

LAMPIRAN

```

using System.Collections;
using System.Collections.Generic;
using UnityEngine;

public class menu_utama : MonoBehaviour
{

    public GameObject menu;

    public GameObject tentang;

    public GameObject belajar;

    public GameObject main_puzzle;

    public GameObject rumah_adat;

    public GameObject rumah_bone;

    public GameObject rumah_wajo;

    public GameObject rumah_bulukumba;

    public GameObject rumah_parepare;

    public GameObject rumah_sinjai;

    public GameObject rumah_baru;

    public GameObject rumah_makassar;

    public GameObject rumah_pinrang;

    public GameObject rumah_luwu;

    public GameObject rumah_soppeng;

    public GameObject rumah_sidrap;

    public GameObject tarian;

    public GameObject tari_pajoge;

    public GameObject tari_panjaga;

    public GameObject tari_paddupa;

    public GameObject alat_musik;

    public GameObject lagu_daerah;

    public GameObject badik;

    public GameObject bodo;

    public GameObject gendang1;

    public GameObject kecap;

    public GameObject indo_logo;

    public GameObject alosi;

    public GameObject bulu_alaua;

```

```

    public GameObject puzzle_gambar;

    public GameObject quiz_video;

    public GameObject quiz_lagu;

    public GameObject cara_bermain;

    public GameObject puzzle_video1;

    public GameObject puzzle_lagu1;

    private TimerManager timerManager; // Referensi ke
    TimerManager

    public GameObject puzzleGambarPanel; // Assign
    panel puzzle_gambar

    // Start is called before the first frame update
    void Start()
    {
        menu.SetActive (true);
    }

    public void tentangClicked() {
        menu.SetActive (false);
        tentang.SetActive (true);
    }

    public void keluarClicked() {
        Application.Quit();
    }

    public void kembaliTentang() {
        menu.SetActive (true);
        tentang.SetActive (false);
    }

    //cara bermain
    public void caraClicked() {
        menu.SetActive (false);
        cara_bermain.SetActive (true);
    }

```

```

}

public void kembaliCara() {
    menu.SetActive (true);
    cara_bermain.SetActive (false);
}

// belajar
public void belajarClicked() {
    menu.SetActive (false);
    belajar.SetActive (true);
}

public void kembaliBelajar() {
    menu.SetActive (true);
    belajar.SetActive (false);
}

// puzzle
public void mainPuzzleClicked() {
    menu.SetActive (false);
    main_puzzle.SetActive (true);
}

public void kembaliMainPuzzle() {
    menu.SetActive (true);
    main_puzzle.SetActive (false);
}

// puzzle gambar
public void mainPuzzleGmbClicked() {
    main_puzzle.SetActive (false);
    puzzle_gambar.SetActive (true);
}

// puzzle lagu

```

```

public void mainPuzzleLaguClicked()
{
    main_puzzle.SetActive(false);
    puzzle_lagu1.SetActive(true);
}

// public void kembaliMainPuzzleGmb() {
//     main_puzzle.SetActive (true);
//     puzzle_gambar.SetActive (false);
// }

// quiz video
public void mainQuizVideoClicked()
{
    main_puzzle.SetActive(false);
    quiz_video.SetActive(true);
}

public void mainPuzzleVideo1Clicked()
{
    main_puzzle.SetActive(false);
    puzzle_video1.SetActive(true);
}

// quiz lagu
public void mainQuizLaguClicked()
{
    main_puzzle.SetActive(false);
    quiz_lagu.SetActive(true);
}

// alat musik
public void alatMusikClicked() {
    belajar.SetActive (false);
    alat_musik.SetActive (true);
}

```

```

        belajar.SetActive (true);
        lagu_daerah.SetActive (false);
    }

    //lagu_daerah indo_logo
    public void indoLogoClicked() {
        lagu_daerah.SetActive (false);
        indo_logo.SetActive (true);
    }

    public void kembaliIndoLogo() {
        lagu_daerah.SetActive (true);
        indo_logo.SetActive (false);
    }

    //lagu_daerah alosi
    public void alosiClicked() {
        lagu_daerah.SetActive (false);
        alosi.SetActive (true);
    }

    public void kembaliAlosi() {
        lagu_daerah.SetActive (true);
        alosi.SetActive (false);
    }

    //lagu_daerah bulu_alauna
    public void buluAlaunaClicked() {
        lagu_daerah.SetActive (false);
        bulu_alauna.SetActive (true);
    }

    public void kembaliBuluAlauna() {
        lagu_daerah.SetActive (true);
        bulu_alauna.SetActive (false);
    }

    public void kembaliAlatMusik() {
        belajar.SetActive (true);
        alat_musik.SetActive (false);
    }

    // alat musik gendang
    public void gendang1Clicked() {
        alat_musik.SetActive (false);
        gendang1.SetActive (true);
        Debug.Log("[Debug] gendang diaktifkan di sini.");
    }

    public void kembaliGendang() {
        alat_musik.SetActive (true);
        gendang1.SetActive (false);
    }

    // alat musik kecapi
    public void kecapiClicked() {
        alat_musik.SetActive (false);
        kecapi.SetActive (true);
    }

    public void kembaliKecapi() {
        alat_musik.SetActive (true);
        kecapi.SetActive (false);
    }

    //lagu_daerah
    public void laguDaerahClicked() {
        belajar.SetActive (false);
        lagu_daerah.SetActive (true);
    }

    public void kembaliLaguDaerah() {

```

```

}

// tarian
public void tarianClicked() {
    belajar.SetActive (false);
    tarian.SetActive (true);
}

public void kembaliTarian() {
    belajar.SetActive (true);
    tarian.SetActive (false);
}

// tarian pajoge
public void tarianPajogeClicked()
{
    tarian.SetActive(false);
    tari_pajoge.SetActive(true);
}

public void kembaliTariPajoge()
{
    tarian.SetActive(true);
    tari_pajoge.SetActive(false);
}

// tarian panjaga
public void tarianPanjagaClicked()
{
    tarian.SetActive(false);
    tari_panjaga.SetActive(true);
}

public void kembaliTariPanjaga()
{
    tarian.SetActive(true);

```

```

    tari_panjaga.SetActive(false);
}

// tarian paddupa
public void tarianPaddupaClicked()
{
    tarian.SetActive(false);
    tari_paddupa.SetActive(true);
}

public void kembaliTariPaddupa()
{
    tarian.SetActive(true);
    tari_paddupa.SetActive(false);
}

//baju_adat
public void bajuAdatClicked() {
    belajar.SetActive (false);
    bodo.SetActive (true);
}

//bodo
public void kembaliBodo() {
    belajar.SetActive (true);
    bodo.SetActive (false);
}

//senjata
public void senjataClicked() {
    belajar.SetActive (false);
    badik.SetActive (true);
}

//badik
public void kembaliBadik() {

```

```

        belajar.SetActive (true);
        badik.SetActive (false);
    }

```

```

// rumah adat

```

```

public void rumahAdatClicked() {
    belajar.SetActive (false);
    rumah_adat.SetActive (true);
}

```

```

public void kembaliRumahAdat() {
    belajar.SetActive (true);
    rumah_adat.SetActive (false);
}

```

```

public void rumah_bone_clicked() {
    belajar.SetActive (false);
    rumah_bone.SetActive (true);
}

```

```

public void kembaliRumahBone() {
    belajar.SetActive (true);
    rumah_bone.SetActive (false);
}

```

```

public void rumah_wajo_clicked() {
    belajar.SetActive (false);
    rumah_wajo.SetActive (true);
}

```

```

public void kembaliRumahWajo() {
    belajar.SetActive (true);
    rumah_wajo.SetActive (false);
}

```

```

public void rumah_bulukumba_clicked() {

```

```

    belajar.SetActive (false);
    rumah_bulukumba.SetActive (true);
}

```

```

public void kembaliRumahBulukumba() {
    belajar.SetActive (true);
    rumah_bulukumba.SetActive (false);
}

```

```

public void rumah_parepare_clicked() {
    belajar.SetActive (false);
    rumah_parepare.SetActive (true);
}

```

```

public void kembaliRumahParepare() {
    belajar.SetActive (true);
    rumah_parepare.SetActive (false);
}

```

```

public void rumah_sinjai_clicked() {
    belajar.SetActive (false);
    rumah_sinjai.SetActive (true);
}

```

```

public void kembaliRumahSinjai() {
    belajar.SetActive (true);
    rumah_sinjai.SetActive (false);
}

```

```

public void rumah_barru_clicked() {
    belajar.SetActive (false);
    rumah_barru.SetActive (true);
}

```

```

public void kembaliRumahBarru() {
    belajar.SetActive (true);

```

```

        rumah_baru.SetActive (false);
    }

    public void rumah_makassar_clicked() {
        belajar.SetActive (false);
        rumah_makassar.SetActive (true);
    }

    public void kembaliRumahMakassar() {
        belajar.SetActive (true);
        rumah_makassar.SetActive (false);
    }

    public void rumah_pinrang_clicked() {
        belajar.SetActive (false);
        rumah_pinrang.SetActive (true);
    }

    public void kembaliRumahPinrang() {
        belajar.SetActive (true);
        rumah_pinrang.SetActive (false);
    }

    public void rumah_luwu_clicked() {
        belajar.SetActive (false);
        rumah_luwu.SetActive (true);
    }

    public void kembaliRumahLuwu() {
        belajar.SetActive (true);
        rumah_luwu.SetActive (false);
    }

    public void rumah_soppeng_clicked() {
        belajar.SetActive (false);
        rumah_soppeng.SetActive (true);
    }

```

```

    }

    public void kembaliRumahSoppeng() {
        belajar.SetActive (true);
        rumah_soppeng.SetActive (false);
    }

    public void rumah_sidrap_clicked() {
        belajar.SetActive (false);
        rumah_sidrap.SetActive (true);
    }

    public void kembaliRumahSidrap() {
        belajar.SetActive (true);
        rumah_sidrap.SetActive (false);
    }

    //rumah pare
    public void keluarRumahPareClicked() {
        belajar.SetActive (true);
        rumah_parepare.SetActive (false);
    }

    public void kembaliRumahPare() {
        rumah_adat.SetActive (true);
        rumah_parepare.SetActive (false);
    }

    // Update is called once per frame
    void Update()
    {

    }

}

using UnityEngine;

```

```

public class PuzzleDropZone : MonoBehaviour
{
    public float snapThreshold = 50f; // Jarak maksimal
    untuk snap

    public RectTransform
    FindNearestEmptySlot(RectTransform droppedPiece)
    {
        RectTransform[] slots =
        GetComponentInChildren<RectTransform>();

        RectTransform nearestSlot = null;

        float minDistance = float.MaxValue;

        foreach (RectTransform slot in slots)
        {
            // Abaikan slot grid itu sendiri atau slot yang sudah
            terisi

            if (slot == (RectTransform)this.transform ||
            slot.childCount > 0)
            {
                continue;
            }

            // Validasi apakah slot berada di dalam panel

            Vector2 slotPosition = slot.anchoredPosition;

            Debug.Log($"[FindNearestSlot] Checking Slot
            {slot.name}, Anchored Position: {slotPosition}");

            // Hitung jarak ke slot

            float distance =
            Vector2.Distance(droppedPiece.position, slot.position);

            if (distance < minDistance && distance <
            snapThreshold)
            {
                minDistance = distance;

                nearestSlot = slot;
            }
        }
    }
}

```

```

    if (nearestSlot != null)
    {
        Debug.Log($"[FindNearestSlot] Final nearest slot:
        {nearestSlot.name}, Anchored Position:
        {nearestSlot.anchoredPosition}");
    }

    else
    {
        Debug.Log($"[FindNearestSlot] No valid slot
        found.");
    }

    return nearestSlot;
}

}

using UnityEngine;
using UnityEngine.UI;
using System.Linq;
using System.Collections; // Tambahkan ini
using UnityEngine.Video;

public class PuzzleManager : MonoBehaviour
{
    public RectTransform panelPuzzleArea; // Panel
    utama untuk menyusun puzzle

    public RectTransform[] puzzlePieces; // Semua
    kepingan puzzle

    public RectTransform[] slots; // Semua slot di area
    puzzle

    // public int rows = 3; // Jumlah baris grid

    // public int columns = 3; // Jumlah kolom grid

    public int rows; // Jumlah baris grid (diatur dinamis)

    public int columns; // Jumlah kolom grid (diatur
    dinamis)

    private Vector2[] targetPositions; // Posisi target
    untuk setiap kepingan puzzle

    public Vector3[] slotCenters; // Titik tengah semua
    slot

```



```

    public TimerManager timerManager; // Referensi ke
    TimerManager

    public Button startButton; // Tombol Start

    public Button restartButton; // Tombol Restart

    public Button nextLevelButton; // Tombol Next
    Level

    public Button succesButton; // Tombol success

    public Text tx_waktuHabis;

    // private int correctCounter = 0; // Counter untuk
    jumlah puzzle yang terpasang benar

    public Text tx_deskpuzzle; // Referensi ke teks

    public RectTransform panelKepingan; // Panel untuk
    kepingan puzzle

    public GameObject panelKonfirmasi; // Assign
    panel_konfirmasi di Inspector

    // public Button kembali; // Tombol success

    public GameObject main_puzzle; // Referensi ke
    panel menu utama

    public GameObject puzzle_gambar; // Referensi ke
    panel puzzle gambar

    public GameObject puzzle_gambar2; // Panel puzzle
    gambar kedua

    public GameObject puzzle_gambar3; // Panel puzzle
    gambar ketiga

    // public GameObject gendang; // Panel puzzle
    gambar ketiga

    public bool isGameStarted = false; // Status apakah
    permainan sudah dimulai

    // untuk puzzle video/lagu

    public Button closePanelVideo, btVidPlay1,
    btVidPlay2, btVidPlay3, btVidPlay4;

    public GameObject puzzleVideo1, panelVideo1,
    panelVideo2, panelVideo3, panelVideo4,
    panelVideoFull; // Assign panel_konfirmasi di Inspector

    public Text tx_puzvid; // Referensi ke teks

    public VideoPlayer videoPlayer1, videoPlayer2,
    videoPlayer3, videoPlayer4, videoFull;

    // public GameObject slot1, slot2, slot3, slot4,
    puzzle1, puzzle2, puzzle3, puzzle4;

    public GameObject puzzleLagu;

```

```

// untuk puzzle lagu

    public AudioSource lagu1, lagu2, lagu3, lagu4,
    laguFull; // AudioSource untuk memutar lagu

    public GameObject[] allPanels;

    void Start()
    {
        InitializeSlotsAndPieces();

        GenerateGrid();

        RandomizePuzzlePieces();

        // Pastikan tombol restart dan next level tidak aktif
        di awal

        restartButton.gameObject.SetActive(false);

        nextLevelButton.gameObject.SetActive(false);

        succesButton.gameObject.SetActive(false);

        tx_deskpuzzle.gameObject.SetActive(false);

        tx_waktuHabis.gameObject.SetActive(false);

        // Pasang event listener untuk timer

        // timerManager.OnTimerComplete +=
        HandleTimerComplete;

        // Tombol start memulai permainan

        startButton.onClick.AddListener(StartGame);

        // Tombol restart memulai ulang permainan

        restartButton.onClick.AddListener(RestartGame);

        // Tombol next level (dapat diimplementasikan
        nanti)

        nextLevelButton.onClick.AddListener(NextLevel);

        // Pastikan panel konfirmasi tidak terlihat saat
        puzzle dimulai

        if (panelKonfirmasi != null)
        {
            panelKonfirmasi.SetActive(false);
        }
    }

```

```

    /// Cari objek di scene berdasarkan namanya
    //puzzleVideo1 =
    GameObject.Find("PanelVideo1");

    //if (puzzleVideo1 == null)
    //{
    //    Debug.LogError("PanelVideo1 tidak
    //    ditemukan! Pastikan namanya benar.");
    //}

    //untuk puzzle video

    if (puzzleVideo1 != null &&
    puzzleVideo1.activeSelf)
    {
        closePanelVideo.gameObject.SetActive(false);
        btVidPlay1.gameObject.SetActive(true);
        btVidPlay2.gameObject.SetActive(true);
        btVidPlay3.gameObject.SetActive(true);
        btVidPlay4.gameObject.SetActive(true);
        tx_puzvid.gameObject.SetActive(true);
        panelVideo1.SetActive(false);
        panelVideo2.SetActive(false);
        panelVideo3.SetActive(false);
        panelVideo4.SetActive(false);
        panelVideoFull.SetActive(false);

        // Tambahkan event untuk menutup panel saat
        // video selesai

        if (videoPlayer1 != null)
        videoPlayer1.loopPointReached += (vp) =>
        ClosePanel(panelVideo1);

        if (videoPlayer2 != null)
        videoPlayer2.loopPointReached += (vp) =>
        ClosePanel(panelVideo2);

        if (videoPlayer3 != null)
        videoPlayer3.loopPointReached += (vp) =>
        ClosePanel(panelVideo3);

        if (videoPlayer4 != null)
        videoPlayer4.loopPointReached += (vp) =>
        ClosePanel(panelVideo4);

        } else
        {
            Debug.LogError("puzzleVideo1 tidak
            ditemukan! Pastikan namanya benar.");
        }

    //untuk puzzle video/lagu
    if (puzzleLagu != null && puzzleLagu.activeSelf)
    {
        closePanelVideo.gameObject.SetActive(false);
        btVidPlay1.gameObject.SetActive(true);
        btVidPlay2.gameObject.SetActive(true);
        btVidPlay3.gameObject.SetActive(true);
        btVidPlay4.gameObject.SetActive(true);
        tx_puzvid.gameObject.SetActive(true);
        panelVideo1.SetActive(false);
        panelVideo2.SetActive(false);
        panelVideo3.SetActive(false);
        panelVideo4.SetActive(false);
        panelVideoFull.SetActive(false);
        lagu1.gameObject.SetActive(false);
        lagu2.gameObject.SetActive(false);
        lagu3.gameObject.SetActive(false);
        lagu4.gameObject.SetActive(false);
        laguFull.gameObject.SetActive(false);
    }
    else
    {
        Debug.LogError("puzzleLagu tidak ditemukan!
        Pastikan namanya benar.");
    }
}

void InitializeSlotsAndPieces()
{

```

```

        // Cari semua slot dari panelPuzzleArea

        RectTransform[] children =
        panelPuzzleArea.GetComponentInChildren<RectTransform>();

        slots = children.Where(slot => slot !=
        panelPuzzleArea).ToArray();

        Debug.Log($"[InitializeSlotsAndPieces] Jumlah
        slot ditemukan: {slots.Length}");

        // Cari semua puzzle pieces dari panel tertentu

        GameObject panelKepinganObj =
        GameObject.Find("panel_kepingan");

        if (panelKepinganObj != null)
        {

            panelKepingan =
            panelKepinganObj.GetComponent<RectTransform>();

            RectTransform[] pieces =
            panelKepingan.GetComponentInChildren<RectTransform>();

            puzzlePieces = pieces.Where(piece => piece !=
            panelKepingan.GetComponent<RectTransform>()).ToArray();

            Debug.Log($"[InitializeSlotsAndPieces] Jumlah
            puzzle pieces ditemukan: {puzzlePieces.Length}");

        }
        else
        {

            Debug.LogError("[InitializeSlotsAndPieces]
            panel_kepingan tidak ditemukan.");

        }

    }

    void Awake()
    {

        for (int i = 0; i < slots.Length; i++)
        {

            Debug.Log($"[Inisialisasi] Slot {slots[i].name}
            di urutan {i}. Diharapkan puzzle:
            {puzzlePieces[i].name}");

        }
    }

```

```

    }

    public void StartGame()
    {

        startButton.gameObject.SetActive(false); //
        Sembunyikan tombol start

        restartButton.gameObject.SetActive(true); //
        Tampilkan tombol restart

        //transform.SetAsLastSibling(); // Pastikan tombol
        Start berada di lapisan paling depan

        timerManager.StartTimer(); // Jalankan timer

        tx_waktuHabis.gameObject.SetActive(false);

        isGameStarted = true; // Permainan dimulai

        //if (puzzleLagu.activeSelf)

        //{

        //    lagu1.gameObject.SetActive(true);

        //}

    }

    public void RestartGame()
    {

        // Pindahkan semua kepingan ke panel_kepingan

        foreach (var piece in puzzlePieces)
        {

            piece.SetParent(panelKepingan);

        }

        RandomizePuzzlePieces(); // Acak ulang puzzle

        timerManager.ResetTimer(); // Reset timer

        startButton.gameObject.SetActive(true); //
        Tampilkan tombol start

        restartButton.gameObject.SetActive(false); //
        Sembunyikan tombol restart

        nextLevelButton.gameObject.SetActive(false); //
        Sembunyikan tombol next level

        tx_waktuHabis.gameObject.SetActive(false);

        tx_deskpuzzle.gameObject.SetActive(false);
    }

```

```

        isGameStarted = false;
    }

    public void NextLevel()
    {
        // Debug.Log("Pindah ke level berikutnya."); //
        // Tambahkan logika untuk pindah level

        RestartGame();

        if (puzzle_gambar.activeSelf)
        {
            // Pindah ke level berikutnya

            puzzle_gambar.SetActive(false);
            puzzle_gambar2.SetActive(true);
        }

        else if (puzzle_gambar2.activeSelf)
        {
            puzzle_gambar2.SetActive(false);
            puzzle_gambar3.SetActive(true);
        }

        else if (puzzle_gambar3.activeSelf)
        {
            // Jika sudah di level terakhir, sembunyikan
            // tombol Next

            // Debug.Log("Ini adalah level terakhir.");
            nextLevelButton.gameObject.SetActive(false);
        }
    }

    void GenerateGrid()
    {
        int gridSize = rows * columns;

        if (puzzlePieces.Length != gridSize || slots.Length
            != gridSize)
        {
            Debug.LogError("[GenerateGrid] Jumlah puzzle
            pieces atau slots tidak sesuai dengan grid size.");
        }
    }

    return;
}

void RandomizePuzzlePieces()
{
    if (panelKepingan == null)
    {
        Debug.LogError("[RandomizePuzzlePieces]
        panel_kepingan belum diinisialisasi.");

        return;
    }

    foreach (var piece in puzzlePieces)
    {
        // Pastikan setiap kepingan berada di
        panel_kepingan

        if (piece.parent != panelKepingan)
        {
            piece.SetParent(panelKepingan);
        }

        // Hitung batas area acak berdasarkan ukuran
        panel_kepingan

        float minX = -panelKepingan.rect.width / 2 +
            piece.rect.width / 2;

        float maxX = panelKepingan.rect.width / 2 -
            piece.rect.width / 2;

        float minY = -panelKepingan.rect.height / 2 +
            piece.rect.height / 2;

        float maxY = panelKepingan.rect.height / 2 -
            piece.rect.height / 2;

        // Atur posisi acak di dalam batas
        panel_kepingan

        piece.anchoredPosition = new Vector2(
            Random.Range(minX, maxX),
            Random.Range(minY, maxY)
        );
    }
}

```

```

    );
}
}

public Vector2 GetTargetPosition(int index)
{
    if (index < 0 || index >= targetPositions.Length)
    {
        Debug.LogError($"Index {index} di luar batas targetPositions.");

        return Vector2.zero; // Kembalikan nilai default jika index tidak valid
    }

    return targetPositions[index];
}

public bool CheckPuzzleState()
{
    int correctCounter = 0; // Counter untuk jumlah puzzle yang benar

    Debug.Log("[CheckPuzzleState] Memulai validasi puzzle...");

    for (int i = 0; i < slots.Length; i++)
    {
        RectTransform slot = slots[i];

        if (slot.childCount > 0)
        {
            RectTransform child = slot.GetChild(0) as RectTransform;

            if (child == puzzlePieces[i]) // Cek apakah puzzle piece sesuai
            {
                correctCounter++;
            }
        }
    }
}

```

```

        Debug.Log($"[CheckPuzzleState] Slot {slot.name} berisi puzzle {child.name} dan sudah benar.");
    }
}

// Cek apakah semua puzzle sudah di tempat yang benar
if (correctCounter == slots.Length)
{
    Debug.Log("[CheckPuzzleState] Semua puzzle sudah benar! Puzzle selesai!");

    // Tambahkan logika lain, misalnya memunculkan tombol "Next Level"
    // succesButton.gameObject.SetActive(true);

    StartCoroutine(ShowSuccessThenDescription()); // Jalankan coroutine

    if (timerManager != null)
    {
        timerManager.StopTimer(); // Hentikan timer
    }

    return true; // Puzzle selesai
}
else
{
    return false; // Puzzle belum selesai

    Debug.Log($"[CheckPuzzleState] {correctCounter} dari {slots.Length} puzzle sudah benar.");
}

// Coroutine untuk menampilkan succesButton lalu mengganti dengan tx_deskripsi
private IEnumerator ShowSuccessThenDescription()
{
    succesButton.gameObject.SetActive(true); // Tampilkan tombol sukses
}

```

```
yield return new WaitForSeconds(2f); // Tunggu
beberapa detik
```

```
succesButton.gameObject.SetActive(false); //
Sembunyikan tombol sukses
```

```
if (puzzleVideo1 != null &&
puzzleVideo1.activeSelf)
```

```
{
    Debug.Log("masuk ke else1!");
```

```
CloseAllPanels();
```

```
panelVideoFull.SetActive(true);
```

```
//if (videoFull != null)
videoFull.loopPointReached += (vp) =>
ClosePanel(panelVideoFull);
```

```
closePanelVideo.gameObject.SetActive(true);
```

```
videoFull.Play();
```

```
}
```

```
else if (puzzleLagu != null &&
puzzleLagu.activeSelf)
```

```
{
    Debug.Log("masuk ke else2!");
```

```
laguFull.gameObject.SetActive(true);
```

```
closePanelVideo.gameObject.SetActive(true);
```

```
laguFull.Play();
```

```
}
```

```
else
```

```
{
```

```
    Debug.Log("masuk ke else!");
```

```
tx_deskpuzzle.gameObject.SetActive(true); //
Tampilkan deskripsi
```

```
nextLevelButton.gameObject.SetActive(true);
```

```
}
```

```
}
```

```
public void kembaliMainPuzzleGmb()
```

```
{
```

```
// Tampilkan panel konfirmasi keluar
```

```
if (panelKonfirmasi != null)
```

```
{
```

```
    Debug.Log($"Panel Konfirmasi ditemukan:
{panelKonfirmasi.name}");
```

```
    panelKonfirmasi.SetActive(true);
```

```
}
```

```
else
```

```
{
```

```
    Debug.LogError("Panel Konfirmasi tidak
ditemukan!");
```

```
}
```

```
}
```

```
private void DebugActivePanels()
```

```
{
```

```
    GameObject[] rootObjects =
    UnityEngine.SceneManagement.SceneManager.GetActi
veScene().GetRootGameObjects();
```

```
    Debug.Log("Panels yang aktif di scene:");
```

```
    foreach (var obj in rootObjects)
```

```
{
```

```
    if (obj.activeSelf)
```

```
{
```

```
        Debug.Log($"Panel Aktif: {obj.name}");
```

```
        CheckChildObjects(obj);
```

```
}
```

```
}
```

```
}
```

```
void CheckChildObjects(GameObject parent)
```

```
{
```

```
    foreach (Transform child in parent.transform)
```

```
{
```

```
    if (child.gameObject.activeSelf)
```

```
{
```

```
        Debug.Log($"-- Child Active:
{child.gameObject.name}");
```

```
        CheckChildObjects(child.gameObject); //
Rekursif untuk anak-anak
```

```
}
```

```

    }
}

//untuk puzzle video
public void jalankanVideo1()
{
    if (isGameStarted)
    {
        CloseAllPanels();
        panelVideo1.SetActive(true);
        videoPlayer1.Play();
        closePanelVideo.gameObject.SetActive(true);
    }
    else
    {
        Debug.Log("isGameStarted= false");
    }
}

```

```

//untuk puzzle video
public void jalankanVideo2()
{
    if (isGameStarted)
    {
        CloseAllPanels();
        panelVideo2.SetActive(true);
        videoPlayer2.Play();
        closePanelVideo.gameObject.SetActive(true);
    }
    else
    {
        Debug.Log("isGameStarted= false");
    }
}

```

```

//untuk puzzle video

```

```

public void jalankanVideo3()
{
    if (isGameStarted)
    {
        CloseAllPanels();
        panelVideo3.SetActive(true);
        videoPlayer3.Play();
        closePanelVideo.gameObject.SetActive(true);
    }
    else
    {
        Debug.Log("isGameStarted= false");
    }
}

```

```

//untuk puzzle video
public void jalankanVideo4()
{
    if (isGameStarted)
    {
        CloseAllPanels();
        panelVideo4.SetActive(true);
        videoPlayer4.Play();
        closePanelVideo.gameObject.SetActive(true);
    }
    else
    {
        Debug.Log("isGameStarted = false");
    }
}

```

```

// Menutup semua panel
public void CloseAllPanels()
{

```

```

    closePanelVideo.gameObject.SetActive(false);

```

```

        Debug.Log("masuk close all panel");

        if (puzzleVideo1 != null &&
puzzleVideo1.activeSelf)
        {
            Debug.Log("puzzleVideo aktif close all
panels");

            panelVideo1.SetActive(false);
            panelVideo2.SetActive(false);
            panelVideo3.SetActive(false);
            panelVideo4.SetActive(false);
            panelVideoFull.SetActive(false);
            videoPlayer1.Stop();
            videoPlayer2.Stop();
            videoPlayer3.Stop();
            videoPlayer4.Stop();
            videoFull.Stop();
        }

        if (puzzleLagu != null && puzzleLagu.activeSelf)
        {
            Debug.Log("puzzleLagu aktifclose all panels");

            //if (panelVideo1.activeSelf)
            //{
            //    Debug.Log("PanelVideo1 aktif");
            //    panelVideo1.SetActive(false);
            //}

            //if (panelVideo2.activeSelf)
            //{
            //    Debug.Log("PanelVideo2 aktif");
            //    panelVideo2.SetActive(false);
            //}

            //if (panelVideo3.activeSelf)
            //{
            //    Debug.Log("PanelVideo3 aktif");
            //    panelVideo3.SetActive(false);
            //}

            //if (panelVideo4.activeSelf)
            //{
            //    Debug.Log("PanelVideo4 aktif");
            //    panelVideo4.SetActive(false);
            //}

            panelVideo1.SetActive(false);
            panelVideo2.SetActive(false);
            panelVideo3.SetActive(false);
            panelVideo4.SetActive(false);
            panelVideoFull.SetActive(false);
            laguFull.gameObject.SetActive(false);
            lagu1.gameObject.SetActive(false);
            lagu2.gameObject.SetActive(false);
            lagu3.gameObject.SetActive(false);
            lagu4.gameObject.SetActive(false);
            lagu1.Stop();
            lagu2.Stop();
            lagu3.Stop();
            lagu4.Stop();
            laguFull.Stop();
        }

        closePanelVideo.gameObject.SetActive(false);
    }

    // Menutup panel tertentu
    private void ClosePanel(GameObject panel)
    {
        panel.SetActive(false);
    }

```



```

//untuk puzzle lagu

public void jalankanLagu1()
{
    if (puzzleLagu != null && puzzleLagu.activeSelf
&& isGameStarted)
    {
        //CloseAllPanels();

        closePanelVideo.gameObject.SetActive(true);

        lagu1.gameObject.SetActive(true);

        lagu1.Play();

        // Tambahkan logika untuk menutup panel
        setelah lagu selesai

        Invoke(nameof(ClosePanelAfterAudio),
        lagu1.clip.length);
    }
    else
    {
        Debug.Log("isGameStarted= false");
    }
}

```

```

public void jalankanLagu2()
{
    if (isGameStarted)
    {
        closePanelVideo.gameObject.SetActive(true);

        //CloseAllPanels();

        lagu2.gameObject.SetActive(true);

        lagu2.Play();

        // Tambahkan logika untuk menutup panel
        setelah lagu selesai

        Invoke(nameof(ClosePanelAfterAudio),
        lagu2.clip.length);
    }
    else
    {
        Debug.Log("isGameStarted= false");
    }
}

```

```

}

public void jalankanLagu3()
{
    if (isGameStarted)
    {
        closePanelVideo.gameObject.SetActive(true);

        //CloseAllPanels();

        lagu3.gameObject.SetActive(true);

        lagu3.Play();

        // Tambahkan logika untuk menutup panel
        setelah lagu selesai

        Invoke(nameof(ClosePanelAfterAudio),
        lagu3.clip.length);
    }
    else
    {
        Debug.Log("isGameStarted= false");
    }
}

```

```

public void jalankanLagu4()
{
    if (isGameStarted)
    {
        closePanelVideo.gameObject.SetActive(true);

        //CloseAllPanels();

        lagu4.gameObject.SetActive(true);

        lagu4.Play();

        // Tambahkan logika untuk menutup panel
        setelah lagu selesai

        Invoke(nameof(ClosePanelAfterAudio),
        lagu4.clip.length);
    }
    else
    {
        Debug.Log("isGameStarted= false");
    }
}

```

```

    }

    public void jalankanLaguFull()
    {
        if (isGameStarted)
        {
            closePanelVideo.gameObject.SetActive(true);

            //CloseAllPanels();

            laguFull.gameObject.SetActive(true);

            laguFull.Play();

            // Tambahkan logika untuk menutup panel
            setelah lagu selesai

            Invoke(nameof(ClosePanelAfterAudio),
            laguFull.clip.length);
        }
        else
        {
            Debug.Log("isGameStarted= false");
        }
    }

    void ClosePanelAfterAudio()
    {
        CloseAllPanels();

        closePanelVideo.gameObject.SetActive(false); //
        Nonaktifkan panel setelah lagu selesai
    }
}

using UnityEngine;

using UnityEngine.EventSystems;

public class PuzzlePiece : MonoBehaviour,
IBeginDragHandler, IDragHandler, IEndDragHandler
{
    public RectTransform rectTransform;

    private Canvas canvas;

    private CanvasGroup canvasGroup;

    private RectTransform originalParent;

    public RectTransform puzzleAreaPanel; // Panel
    puzzle area

    private RectTransform currentSlot = null; // Slot
    tempat puzzle piece saat ini berada

    public PuzzleManager puzzleManager; //
    Referensi ke PuzzleManager

    private void Awake()
    {
        rectTransform =
        GetComponent<RectTransform>();

        canvas = GetComponent<Canvas>();

        canvasGroup =
        GetComponent<CanvasGroup>();

        originalParent =
        rectTransform.parent.GetComponent<RectTransform>();
    }

    public void OnBeginDrag(PointerEventData
    eventData)
    {
        if (!puzzleManager.isGameStarted)
        {
            Debug.Log("Permainan belum dimulai.
            Puzzle tidak bisa dipindahkan.");

            return; // Abaikan interaksi jika permainan
            belum dimulai
        }

        if (puzzleManager.timerManager != null &&
        puzzleManager.timerManager.isTimeUp)
        {
            Debug.Log("Waktu habis. Puzzle tidak bisa
            dipindahkan.");

            return; // Abaikan interaksi jika waktu sudah
            habis
        }
    }
}

```

```

        canvasGroup.alpha = 0.6f;

        canvasGroup.blocksRaycasts = false;

        // Lepaskan dari slot saat mulai drag

        if (currentSlot != null)
        {
            currentSlot.DetachChildren(); // Hapus puzzle
            dari slot

            currentSlot = null; // Kosongkan referensi slot
        }

        // Ubah parent ke panel_kepingan untuk
        membebaskan drag

        rectTransform.SetParent(originalParent, true); //
        originalParent adalah panel_kepingan

        // Debug.Log($"[OnBeginDrag]
        {gameObject.name} parent set to
        {rectTransform.parent.name}");

    }

    public void OnDrag(PointerEventData eventData)
    {
        if (!puzzleManager.isGameStarted)
        {
            return; // Abaikan interaksi jika permainan
            belum dimulai
        }

        rectTransform.anchoredPosition +=
        eventData.delta / canvas.scaleFactor;
    }

    private RectTransform FindNearestSlot(RectTransform parentPanel)
    {
        float minDistance = float.MaxValue;

        RectTransform nearestSlot = null;

```

```

        foreach (RectTransform slot in
        parentPanel.GetComponentsInChildren<RectTransform>())
        {
            // Lewati parent panel dan slot lama

            if (slot == parentPanel || slot ==
            rectTransform.parent) continue;

            // Hitung posisi tengah slot

            Vector2 slotCenter =
            slot.TransformPoint(slot.rect.center);

            // Hitung jarak antara puzzle piece dan slot

            float distance =
            Vector2.Distance(rectTransform.position, slotCenter);

            // Debug.Log($"[FindNearestSlot] Checking
            Slot {slot.name}, Distance: {distance}");

            if (distance < minDistance)
            {
                minDistance = distance;

                nearestSlot = slot;
            }
        }

        if (nearestSlot != null)
        {
            // Debug.Log($"[FindNearestSlot] Nearest
            Slot Found: {nearestSlot.name}, Distance:
            {minDistance}");
        }
        else
        {
            // Debug.LogWarning($"[FindNearestSlot]
            No valid slot found for {gameObject.name}");
        }

        return nearestSlot;
    }

```

```

public void OnEndDrag(PointerEventData
eventData)
{
    if (!puzzleManager.isGameStarted)
    {
        Debug.Log("Permainan belum dimulai.
Puzzle tidak bisa dipindahkan.");

        return; // Abaikan interaksi jika permainan
belum dimulai
    }

    canvasGroup.alpha = 1f; // Kembalikan
transparansi

    canvasGroup.blocksRaycasts = true;

    RectTransform nearestSlot =
FindNearestSlot(puzzleAreaPanel);

    if (nearestSlot != null)
    {
        // Periksa apakah slot baru sudah kosong
        if (nearestSlot.childCount > 0)
        {
            // Debug.LogWarning($"[OnEndDrag]
{nearestSlot.name} is already occupied.");

            // Kembalikan ke slot lama jika slot baru
terisi

            if (currentSlot != null)
            {
                rectTransform.SetParent(currentSlot,
false);

                rectTransform.anchoredPosition =
Vector2.zero;
            }
            else
            {
                rectTransform.SetParent(originalParent,
true);

                rectTransform.anchoredPosition =
Vector2.zero;
            }
        }
    }
}

```

```

return;
}

// Kosongkan slot lama
if (currentSlot != null &&
currentSlot.childCount > 0)
{
    currentSlot.DetachChildren(); // Hapus
referensi dari slot lama
}

// Set parent ke slot terdekat
rectTransform.SetParent(nearestSlot, false);

rectTransform.anchoredPosition =
Vector2.zero;

// Debug.Log($"[OnEndDrag]
{gameObject.name} snapped to Slot:
{nearestSlot.name}");

currentSlot = nearestSlot; // Simpan referensi
ke slot saat ini

// Panggil validasi di PuzzleManager
// puzzleManager.CheckPuzzleState();
}

else
{
    // Jika tidak ada slot valid, kembalikan ke
panel asal

    if (currentSlot != null &&
currentSlot.childCount > 0)
    {
        currentSlot.DetachChildren(); // Hapus
referensi dari slot lama
    }

    // Jika tidak ada slot yang valid, kembalikan
ke parent asal
    rectTransform.SetParent(originalParent, true);

    rectTransform.anchoredPosition =
Vector2.zero;
}

```

```

        // Debug.Log($"[OnEndDrag]
        {gameObject.name} returned to original position.");
    }

    //cek selesai atau tidak puzzle nya
    puzzleManager.CheckPuzzleState();

}

}

using UnityEngine;

public class PuzzleRandomizer : MonoBehaviour
{
    public RectTransform[] puzzlePieces; // Semua
    kepingan puzzle

    public RectTransform panelKepingan; // Panel
    tempat kepingan puzzle

    public float padding = 10f; // Jarak minimum dari
    tepi panel

    void Start()
    {
        // Cari semua anak dari panel_kepingan yang
        merupakan kepingan puzzle

        GameObject panelKepinganGO =
        GameObject.Find("panel_kepingan");

        if (panelKepinganGO != null)
        {
            RectTransform[] pieces =
            panelKepinganGO.GetComponentsInChildren<RectTra
            nsform>();

            puzzlePieces = new
            RectTransform[pieces.Length - 1]; // Abaikan parent
            (panel_kepingan)

            for (int i = 1; i < pieces.Length; i++)
            {
                puzzlePieces[i - 1] = pieces[i];
            }

```

```

        // Debug.Log($"Jumlah kepingan puzzle yang
        ditemukan: {puzzlePieces.Length}");
    }

    else
    {
        // Debug.LogError("panel_kepingan tidak
        ditemukan.");
        return;
    }

    // Acak posisi kepingan puzzle
    RandomizePositions();
}

void RandomizePositions()
{
    if (panelKepingan == null)
    {
        // Debug.LogError("PanelKepingan belum
        diassign di Inspector!");
        return;
    }

    // Dapatkan ukuran panel
    Vector2 panelSize = panelKepingan.rect.size;

    // Debug.Log($"Panel Size: {panelSize}");

    foreach (RectTransform piece in puzzlePieces)
    {
        if (panelSize == Vector2.zero)
        {
            // Debug.LogError("Ukuran panel_kepingan
            tidak valid!");
            return;
        }

```

```

(0,0) // Hitung posisi acak berdasarkan pusat panel

float randomX = Random.Range(
    -panelSize.x / 2 + piece.rect.width / 2 +
padding, // Batas kiri

    panelSize.x / 2 - piece.rect.width / 2 - padding
// Batas kanan

);

float randomY = Random.Range(
    -panelSize.y / 2 + piece.rect.height / 2 +
padding, // Batas bawah

    panelSize.y / 2 - piece.rect.height / 2 -
padding // Batas atas

);

// Tetapkan posisi acak ke puzzle piece
piece.anchoredPosition = new
Vector2(randomX, randomY);

// Debug posisi acak

// Debug.Log($"Puzzle Piece {piece.name} -
Anchored Position: {piece.anchoredPosition}");

}

}

}

using UnityEngine;

using UnityEngine.UI;

using System.Linq;

using System.Collections; // Tambahkan ini

using UnityEngine.Video;

public class PuzzleVideoManager : MonoBehaviour
{
    public RectTransform panelPuzzleArea; // Panel
utama untuk menyusun puzzle

    public RectTransform[] puzzlePieces; // Semua
kepingan puzzle

    public RectTransform[] slots; // Semua slot di area
puzzle

```

```

// public int rows = 3; // Jumlah baris grid

// public int columns = 3; // Jumlah kolom grid

public int rows; // Jumlah baris grid (diatur dinamis)

public int columns; // Jumlah kolom grid (diatur
dinamis)

private Vector2[] targetPositions; // Posisi target
untuk setiap kepingan puzzle

public Vector3[] slotCenters; // Titik tengah semua
slot

public TimerManager timerManager; // Referensi ke
TimerManager

public Button startButton; // Tombol Start

public Button restartButton; // Tombol Restart

public Button nextLevelButton; // Tombol Next
Level

public Button succesButton; // Tombol success

public Text tx_waktuHabis;

// private int correctCounter = 0; // Counter untuk
jumlah puzzle yang terpasang benar

public Text tx_deskpuzzle; // Referensi ke teks

public RectTransform panelKepingan; // Panel untuk
kepingan puzzle

public GameObject panelKonfirmasi; // Assign
panel_konfirmasi di Inspector

// public Button kembali; // Tombol success

public GameObject main_puzzle; // Referensi ke
panel menu utama

public GameObject puzzle_gambar; // Referensi ke
panel puzzle gambar

public GameObject puzzle_gambar2; // Panel puzzle
gambar kedua

public GameObject puzzle_gambar3; // Panel puzzle
gambar ketiga

// public GameObject gengang; // Panel puzzle
gambar ketiga

public bool isGameStarted = false; // Status apakah
permainan sudah dimulai

public GameObject panelVideo1; // Panel untuk
video 1

public VideoPlayer videoPlayer1; // VideoPlayer
untuk video 1

```

```

    public GameObject panelVideo2; // Panel untuk
    video 2

    public VideoPlayer videoPlayer2; // VideoPlayer
    untuk video 2

```

```

    public GameObject panelVideo3; // Panel untuk
    video 3

```

```

    public VideoPlayer videoPlayer3; // VideoPlayer
    untuk video 3

```

```

    public GameObject panelVideo4; // Panel untuk
    video 4

```

```

    public VideoPlayer videoPlayer4; // VideoPlayer
    untuk video 4

```

```

void Start()
{
    InitializeSlotsAndPieces();

    GenerateGrid();

    RandomizePuzzlePieces();

```

```

    // Pastikan tombol restart dan next level tidak aktif
    di awal

```

```

    restartButton.gameObject.SetActive(false);

    nextLevelButton.gameObject.SetActive(false);

    succesButton.gameObject.SetActive(false);

    tx_deskpuzzle.gameObject.SetActive(false);

    tx_waktuHabis.gameObject.SetActive(false);

```

```

    // Pasang event listener untuk timer

```

```

    // timerManager.OnTimerComplete +=
    HandleTimerComplete;

```

```

    // Tombol start memulai permainan

```

```

    startButton.onClick.AddListener(StartGame);

```

```

    // Tombol restart memulai ulang permainan

```

```

    restartButton.onClick.AddListener(RestartGame);

```

```

    // Tombol next level (dapat diimplementasikan
    nanti)

```

```

    nextLevelButton.onClick.AddListener(NextLevel);

```

```

    // Pastikan panel konfirmasi tidak terlihat saat
    puzzle dimulai

```

```

    if (panelKonfirmasi != null)

```

```

    {
        panelKonfirmasi.SetActive(false);
    }

```

```

    // Tambahkan event untuk menutup panel saat
    video selesai

```

```

    if (videoPlayer1 != null)
    videoPlayer1.loopPointReached += (vp) =>
    ClosePanel(panelVideo1);

```

```

    if (videoPlayer2 != null)
    videoPlayer2.loopPointReached += (vp) =>
    ClosePanel(panelVideo2);

```

```

    if (videoPlayer3 != null)
    videoPlayer3.loopPointReached += (vp) =>
    ClosePanel(panelVideo3);

```

```

    if (videoPlayer4 != null)
    videoPlayer4.loopPointReached += (vp) =>
    ClosePanel(panelVideo4);

```

```

    }

```

```

void InitializeSlotsAndPieces()

```

```

{

```

```

    // Cari semua slot dari panelPuzzleArea

```

```

    RectTransform[] children =
    panelPuzzleArea.GetComponentInChildren<RectTransform>();

```

```

    slots = children.Where(slot => slot !=
    panelPuzzleArea).ToArray();

```

```

    Debug.Log($"[InitializeSlotsAndPieces] Jumlah
    slot ditemukan: {slots.Length}");

```

```

    // Cari semua puzzle pieces dari panel tertentu

```

```

        GameObject panelKepinganObj =
GameObject.Find("panel_kepingan");

        if (panelKepinganObj != null)
        {

            panelKepingan
panelKepinganObj.GetComponent<RectTransform>();

            RectTransform[] pieces =
panelKepingan.GetComponentInChildren<RectTransform>();

            puzzlePieces = pieces.Where(piece => piece !=
panelKepingan.GetComponent<RectTransform>()).ToArray();

            Debug.Log($"[InitializeSlotsAndPieces] Jumlah
puzzle pieces ditemukan: {puzzlePieces.Length}");

        }

        else
        {

            Debug.LogError("[InitializeSlotsAndPieces]
panel_kepingan tidak ditemukan.");

        }

    }

    void Awake()
    {

        for (int i = 0; i < slots.Length; i++)
        {

            Debug.Log($"[Inisialisasi] Slot {slots[i].name}
di urutan {i}. Diharapkan puzzle:
{puzzlePieces[i].name}");

        }

    }

    public void StartGame()
    {

        startButton.gameObject.SetActive(false); //
Sembunyikan tombol start

        restartButton.gameObject.SetActive(true); //
Tampilkan tombol restart

        //transform.SetAsLastSibling(); //Pastikan tombol
Start berada di lapisan paling depan

```

```

        timerManager.StartTimer(); // Jalankan timer

        tx_waktuHabis.gameObject.SetActive(false);

        isGameStarted = true; // Permainan dimulai

    }

    public void RestartGame()
    {

        // Pindahkan semua kepingan ke panel_kepingan

        foreach (var piece in puzzlePieces)
        {

            piece.SetParent(panelKepingan);

        }

        RandomizePuzzlePieces(); // Acak ulang puzzle

        timerManager.ResetTimer(); // Reset timer

        startButton.gameObject.SetActive(true); //
Tampilkan tombol start

        restartButton.gameObject.SetActive(false); //
Sembunyikan tombol restart

        nextLevelButton.gameObject.SetActive(false); //
Sembunyikan tombol next level

        tx_waktuHabis.gameObject.SetActive(false);

        tx_deskpuzzle.gameObject.SetActive(false);

    }

    public void NextLevel()
    {

        // Debug.Log("Pindah ke level berikutnya."); //
Tambahkan logika untuk pindah level

        RestartGame();

        if (puzzle_gambar.activeSelf)
        {

            // Pindah ke level berikutnya

            puzzle_gambar.SetActive(false);

            puzzle_gambar2.SetActive(true);

        }

        else if (puzzle_gambar2.activeSelf)

```



```

    {
        puzzle_gambar2.SetActive(false);
        puzzle_gambar3.SetActive(true);
    }

    else if (puzzle_gambar3.activeSelf)
    {
        // Jika sudah di level terakhir, sembunyikan
        tombol Next

        // Debug.Log("Ini adalah level terakhir.");
        nextLevelButton.gameObject.SetActive(false);
    }

}

void GenerateGrid()
{
    int gridSize = rows * columns;

    if (puzzlePieces.Length != gridSize || slots.Length
    != gridSize)
    {
        Debug.LogError("[GenerateGrid] Jumlah puzzle
        pieces atau slots tidak sesuai dengan grid size.");

        return;
    }
}

void RandomizePuzzlePieces()
{
    if (panelKepingan == null)
    {
        Debug.LogError("[RandomizePuzzlePieces]
        panel_kepingan belum diinisialisasi.");

        return;
    }

    foreach (var piece in puzzlePieces)

```

```

    {
        // Pastikan setiap kepingan berada di
        panel_kepingan

        if (piece.parent != panelKepingan)
        {
            piece.SetParent(panelKepingan);
        }

        // Hitung batas area acak berdasarkan ukuran
        panel_kepingan

        float minX = -panelKepingan.rect.width / 2 +
        piece.rect.width / 2;

        float maxX = panelKepingan.rect.width / 2 -
        piece.rect.width / 2;

        float minY = -panelKepingan.rect.height / 2 +
        piece.rect.height / 2;

        float maxY = panelKepingan.rect.height / 2 -
        piece.rect.height / 2;

        // Atur posisi acak di dalam batas
        panel_kepingan

        piece.anchoredPosition = new Vector2(
            Random.Range(minX, maxX),
            Random.Range(minY, maxY)
        );
    }
}

public Vector2 GetTargetPosition(int index)
{
    if (index < 0 || index >= targetPositions.Length)
    {
        Debug.LogError($"Index {index} di luar batas
        targetPositions.");

        return Vector2.zero; // Kembalikan nilai default
        jika index tidak valid
    }

    return targetPositions[index];
}

```

```

public bool CheckPuzzleState()
{
    int correctCounter = 0; // Counter untuk jumlah puzzle yang benar

    // Debug.Log("[CheckPuzzleState] Memulai validasi puzzle...");

    for (int i = 0; i < slots.Length; i++)
    {
        RectTransform slot = slots[i];

        if (slot.childCount > 0)
        {
            RectTransform child = slot.GetChild(0) as RectTransform;

            if (child == puzzlePieces[i] // Cek apakah puzzle piece sesuai
            {
                correctCounter++;

                // Debug.Log($"[CheckPuzzleState] Slot {slot.name} berisi puzzle {child.name} dan sudah benar.");
            }
        }
    }

    // Cek apakah semua puzzle sudah di tempat yang benar

    if (correctCounter == slots.Length)
    {
        Debug.Log("[CheckPuzzleState] Semua puzzle sudah benar! Puzzle selesai!");

        // Tambahkan logika lain, misalnya memunculkan tombol "Next Level"

        // succesButton.gameObject.SetActive(true);

        StartCoroutine(ShowSuccessThenDescription()); // Jalankan coroutine
    }
}

```

```

if (timerManager != null)
{
    timerManager.StopTimer(); // Hentikan timer
}

return true; // Puzzle selesai
}

else
{
    return false; // Puzzle belum selesai

    // Debug.Log($"[CheckPuzzleState] {correctCounter} dari {slots.Length} puzzle sudah benar.");
}

}

// Coroutine untuk menampilkan succesButton lalu mengganti dengan tx_deskripsi
private IEnumerator ShowSuccessThenDescription()
{
    succesButton.gameObject.SetActive(true); // Tampilkan tombol sukses

    yield return new WaitForSeconds(2f); // Tunggu beberapa detik

    succesButton.gameObject.SetActive(false); // Sembunyikan tombol sukses

    tx_deskpuzzle.gameObject.SetActive(true); // Tampilkan deskripsi

    nextLevelButton.gameObject.SetActive(true);
}

public void kembaliMainPuzzleGmb()
{
    // Tampilkan panel konfirmasi keluar

    if (panelKonfirmasi != null)
    {
        Debug.Log($"Panel Konfirmasi ditemukan: {panelKonfirmasi.name}");
    }
}

```

```

        panelKonfirmasi.SetActive(true);
    }
    else
    {
        Debug.LogError("Panel Konfirmasi tidak
        ditemukan!");
    }

}

private void DebugActivePanels()
{
    GameObject[] rootObjects =
    UnityEngine.SceneManagement.SceneManager.GetActi
    veScene().GetRootGameObjects();

    Debug.Log("Panels yang aktif di scene:");

    foreach (var obj in rootObjects)
    {
        if (obj.activeSelf)
        {
            Debug.Log($"Panel Aktif: {obj.name}");

            CheckChildObjects(obj);
        }
    }
}

void CheckChildObjects(GameObject parent)
{
    foreach (Transform child in parent.transform)
    {
        if (child.gameObject.activeSelf)
        {
            Debug.Log($"-- Child Active:
            {child.gameObject.name}");

            CheckChildObjects(child.gameObject); //
            Rekursif untuk anak-anak
        }
    }
}

}

}

//// Membuka panel video tertentu

//public void OpenVideoPanel(int panelIndex)

//{

//    CloseAllVideoPanels();// Pastikan semua panel
//    lain tertutup

//    if (panelIndex >= 0 && panelIndex <
//    videoPanels.Length)

//    {

//        videoPanels[panelIndex].SetActive(true); //
//        Aktifkan panel yang dipilih

//    }

//    else

//    {

//        Debug.LogError($"Panel index {panelIndex}
//        tidak valid!");

//    }

//}

//// Menutup semua panel video

//public void CloseAllVideoPanels()

//{

//    foreach (GameObject panel in videoPanels)

//    {

//        if (panel != null)

//        {

//            panel.SetActive(false);

//        }

//    }

//}

// Metode untuk menampilkan panel video 1

public void PlayVideo1()
{
    CloseAllPanels();

    panelVideo1.SetActive(true);
}

```

```

        videoPlayer1.Play();
    }

    // Metode untuk menampilkan panel video 2
    public void PlayVideo2()
    {
        CloseAllPanels();

        panelVideo2.SetActive(true);
        videoPlayer2.Play();
    }

    // Metode untuk menampilkan panel video 3
    public void PlayVideo3()
    {
        CloseAllPanels();

        panelVideo3.SetActive(true);
        videoPlayer3.Play();
    }

    // Metode untuk menampilkan panel video 4
    public void PlayVideo4()
    {
        CloseAllPanels();

        panelVideo4.SetActive(true);
        videoPlayer4.Play();
    }

    // Menutup semua panel
    private void CloseAllPanels()
    {
        panelVideo1.SetActive(false);
        panelVideo2.SetActive(false);
        panelVideo3.SetActive(false);
        panelVideo4.SetActive(false);
    }

```

```

    // Menutup panel tertentu
    private void ClosePanel(GameObject panel)
    {
        panel.SetActive(false);
    }

}

using UnityEngine;
using UnityEngine.EventSystems;

public class PuzzleVideoPiece : MonoBehaviour,
IBeginDragHandler, IDragHandler, IEndDragHandler
{
    public RectTransform rectTransform;

    private Canvas canvas;

    private CanvasGroup canvasGroup;

    private RectTransform originalParent;

    public RectTransform puzzleAreaPanel; // Panel
    puzzle area

    private RectTransform currentSlot = null; // Slot
    tempat puzzle piece saat ini berada

    public PuzzleManager puzzleManager; //
    Referensi ke PuzzleManager

    private void Start()
    {
        if (puzzleManager == null)
        {
            Debug.LogError("PuzzleVideoPiece :
PuzzleManager tidak terhubung! Pastikan script
terhubung di Inspector.");
        }
    }

    private void Awake()
    {

```

```

        rectTransform =
GetComponent<RectTransform>();

        canvas = GetComponentInParent<Canvas>();

        canvasGroup =
GetComponent<CanvasGroup>();

        originalParent =
rectTransform.parent.GetComponent<RectTransform>(
);
    }

```

```

public void OnBeginDrag(PointerEventData
eventData)
{
    if (!puzzleManager.isGameStarted)
    {
        Debug.Log("Permainan belum dimulai.
Puzzle tidak bisa dipindahkan.");

        return; // Abaikan interaksi jika permainan
belum dimulai
    }

```

```

    if (puzzleManager.timerManager != null &&
puzzleManager.timerManager.isTimeUp)
    {
        Debug.Log("Waktu habis. Puzzle tidak bisa
dipindahkan.");

        return; // Abaikan interaksi jika waktu sudah
habis
    }

```

```

        canvasGroup.alpha = 0.6f;
        canvasGroup.blocksRaycasts = false;
        // Lepaskan dari slot saat mulai drag
        if (currentSlot != null)
        {
            currentSlot.DetachChildren(); // Hapus puzzle
dari slot
            currentSlot = null; // Kosongkan referensi slot
        }

```

```

        // Ubah parent ke panel_kepingan untuk
membebaskan drag

```

```

        rectTransform.SetParent(originalParent, true); //
originalParent adalah panel_kepingan

```

```

        // Debug.Log($"[OnBeginDrag]
{gameObject.name} parent set to
{rectTransform.parent.name}");
    }

```

```

public void OnDrag(PointerEventData eventData)
{
    if (!puzzleManager.isGameStarted)
    {
        return; // Abaikan interaksi jika permainan
belum dimulai
    }

    rectTransform.anchoredPosition +=
eventData.delta / canvas.scaleFactor;
}

```

```

private RectTransform
FindNearestSlot(RectTransform parentPanel)

```

```

{
    float minDistance = float.MaxValue;

    RectTransform nearestSlot = null;

```

```

    foreach (RectTransform slot in
parentPanel.GetComponentsInChildren<RectTransform>())
    {

```

```

        // Lewati parent panel dan slot lama
        if (slot == parentPanel || slot ==
rectTransform.parent) continue;

```

```

        // Hitung posisi tengah slot
        Vector2 slotCenter =
slot.TransformPoint(slot.rect.center);

```

```

        // Hitung jarak antara puzzle piece dan slot

```

```

        float distance =
Vector2.Distance(rectTransform.position, slotCenter);

        // Debug.Log($"[FindNearestSlot] Checking
Slot {slot.name}, Distance: {distance}");

        if (distance < minDistance)
        {
            minDistance = distance;
            nearestSlot = slot;
        }
    }

    if (nearestSlot != null)
    {
        // Debug.Log($"[FindNearestSlot] Nearest
Slot Found: {nearestSlot.name}, Distance:
{minDistance}");
    }
    else
    {
        // Debug.LogWarning($"[FindNearestSlot]
No valid slot found for {gameObject.name}");
    }

    return nearestSlot;
}

public void OnEndDrag(PointerEventData
eventData)
{
    if (!puzzleManager.isGameStarted)
    {
        Debug.Log("Permainan belum dimulai.
Puzzle tidak bisa dipindahkan.");

        return; // Abaikan interaksi jika permainan
belum dimulai
    }

    canvasGroup.alpha = 1f; // Kembalikan
transparansi

```

```

    canvasGroup.blocksRaycasts = true;

    RectTransform nearestSlot =
FindNearestSlot(puzzleAreaPanel);

    if (nearestSlot != null)
    {
        // Periksa apakah slot baru sudah kosong
        if (nearestSlot.childCount > 0)
        {
            // Debug.LogWarning($"[OnEndDrag]
{nearestSlot.name} is already occupied.");

            // Kembalikan ke slot lama jika slot baru
terisi

            if (currentSlot != null)
            {
                rectTransform.SetParent(currentSlot,
false);

                rectTransform.anchoredPosition =
Vector2.zero;
            }
            else
            {
                rectTransform.SetParent(originalParent,
true);

                rectTransform.anchoredPosition =
Vector2.zero;
            }

            return;
        }

        // Kosongkan slot lama

        if (currentSlot != null &&
currentSlot.childCount > 0)
        {
            currentSlot.DetachChildren(); // Hapus
referensi dari slot lama
        }

        // Set parent ke slot terdekat

```

```

        rectTransform.SetParent(nearestSlot, false);

        rectTransform.anchoredPosition =
        Vector2.zero;

        //          Debug.Log($"[OnEndDrag]
        {gameObject.name} snapped to Slot:
        {nearestSlot.name}");

        currentSlot = nearestSlot; // Simpan referensi
        ke slot saat ini

        // Panggil validasi di PuzzleManager

        // puzzleManager.CheckPuzzleState();

    }

    else

    {

        // Jika tidak ada slot valid, kembalikan ke
        panel asal

        if (currentSlot != null &&
        currentSlot.childCount > 0)

        {

            currentSlot.DetachChildren(); // Hapus
            referensi dari slot lama

        }

        // Jika tidak ada slot yang valid, kembalikan
        ke parent asal

        rectTransform.SetParent(originalParent, true);

        rectTransform.anchoredPosition =
        Vector2.zero;

        //          Debug.Log($"[OnEndDrag]
        {gameObject.name} returned to original position.");

    }

    //cek selesai atau tidak puzzle nya

    puzzleManager.CheckPuzzleState();

}

}

using System.Collections;

```

```

using UnityEngine;

using UnityEngine.UI;

using UnityEngine.Video;

public class QuizManager : MonoBehaviour

{

    [Header("Panel and Buttons")]

    public GameObject panelVideo; // Panel untuk
    memutar video

    public GameObject panelChoices; // Panel untuk
    pilihan

    public Button btA, btB, btC, btStart; // Tombol
    pilihan

    public GameObject btBenar, btSalah; // Indikator
    jawaban benar/salah

    [Header("Video Settings")]

    public VideoPlayer videoPlayer; // VideoPlayer untuk
    memutar video

    public float videoDuration = 10f; // Durasi video
    (jika VideoPlayer tidak mendukung durasi)

    [Header("Next Question")]

    public GameObject nextPanel; // Panel pertanyaan
    berikutnya

    public GameObject currentPanel; // Panel pertanyaan
    saat ini

    private bool isAnswerCorrect; // Status jawaban

    public GameObject mainPuzzlePanel; // Panel utama
    (main_puzzle)

    public GameObject[] activePanels; // Semua panel
    lain yang mungkin aktif

    void Start()

    {

        // Pastikan panel video aktif dan panel lainnya
        tidak aktif di awal

        panelVideo.SetActive(false);
    }
}

```

```

panelChoices.SetActive(false);

btBenar.SetActive(false);

btSalah.SetActive(false);

// Smbungkan tombol pilihan ke metode
penanganan jawaban

btA.onClick.AddListener() =>
CheckAnswer("A");

btB.onClick.AddListener() =>
CheckAnswer("B");

btC.onClick.AddListener() =>
CheckAnswer("C");

// Periksa apakah VideoPlayer mendukung durasi
if (videoPlayer != null)
{
    videoPlayer.loopPointReached +=
OnVideoFinished; // Event saat video selesai
}

public void StartQuiz()
{
    panelVideo.SetActive(true); // Tampilkan panel
video

    panelChoices.SetActive(false); // Sembunyikan
panel pilihan

// Sembunyikan tombol Start

btStart.gameObject.SetActive(false);

if (videoPlayer != null)
{
    videoPlayer.Play(); // Mulai video
}
else
{
    // Jika VideoPlayer tidak tersedia, gunakan timer
sebagai alternatif

    StartCoroutine(VideoTimer(videoDuration));
}

void OnVideoFinished(VideoPlayer vp)
{
    // Ketika video selesai, tampilkan pilihan

    panelVideo.SetActive(false);

    //panelChoices.SetActive(true);

    btA.gameObject.SetActive(true);

    btB.gameObject.SetActive(true);

    btC.gameObject.SetActive(true);
}

IEnumerator VideoTimer(float duration)
{
    yield return new WaitForSeconds(duration);

    OnVideoFinished(null); // Panggil logika setelah
video selesai
}

public void CheckAnswer(string selectedAnswer)
{
    // Tentukan apakah jawaban benar atau salah

    //isAnswerCorrect = (selectedAnswer == "A"); //
Misalnya jawaban benar adalah "A"

    // Variabel untuk menentukan apakah jawaban
benar

    bool isAnswerCorrect = false;

    // Tentukan jawaban benar berdasarkan nama panel
aktif

    if (currentPanel.name == "quiz_pajoge")
    {
        isAnswerCorrect = (selectedAnswer == "A");
    }

    else if (currentPanel.name == "quiz_panjaga")

```



```

{
    isAnswerCorrect = (selectedAnswer == "B");
}

else if (currentPanel.name == "quiz_paddupa")
{
    isAnswerCorrect = (selectedAnswer == "C");
}

else
{
    Debug.LogError($"Panel tidak dikenal: {currentPanel.name}");
}

if (isAnswerCorrect)
{
    Debug.Log("Jawaban benar!");

    btBenar.SetActive(true);

    btSalah.SetActive(false);

    StartCoroutine(ProceedToNextQuestion());
}

else
{
    Debug.Log("Jawaban salah!");

    btBenar.SetActive(false);

    btSalah.SetActive(true);

    StartCoroutine(HideWrongAnswerFeedback());
}

IEnumerator ProceedToNextQuestion()
{
    yield return new WaitForSeconds(2f); // Jeda
    sebelum pindah ke pertanyaan berikutnya

    btBenar.SetActive(false);

    // Pindah ke panel pertanyaan berikutnya

```

```

if (nextPanel != null)
{
    currentPanel.SetActive(false);

    nextPanel.SetActive(true);
}

// Coroutine untuk menyembunyikan feedback
jawaban salah setelah 2 detik

private IEnumerator HideWrongAnswerFeedback()
{
    yield return new WaitForSeconds(2); // Tunggu
    selama 2 detik

    btSalah.SetActive(false); // Sembunyikan tombol
    btSalah

}

public void BackToMainPuzzle()
{
    // Set panel main_puzzle aktif
    mainPuzzlePanel.SetActive(true);

    currentPanel.SetActive(false);

    // Nonaktifkan semua panel yang lain
    //foreach (GameObject panel in activePanels)
    //{
    //    if (panel.activeSelf)
    //    {
    //        panel.SetActive(false);

    //        Debug.Log($"Panel {panel.name}
    dinonaktifkan.");
    //    }
    //}

    Debug.Log("Kembali ke panel main_puzzle.");
}

}

using UnityEngine;

```

```
using UnityEngine.UI;
using System.Collections;
```

```
public class QuizManagerLagu : MonoBehaviour
{
    [Header("UI Elements")]

    public GameObject panelQuizLagu; // Panel utama kuis lagu

    public GameObject btA, btB, btC; // Tombol pilihan

    public GameObject btBenar; // Indikator jawaban benar

    public GameObject btSalah; // Indikator jawaban salah

    public Button btStart; // Tombol untuk memulai lagu

    public GameObject panelKonfirmasi; // Panel konfirmasi keluar
```

```
    [Header("Audio Settings")]

    public AudioSource audioSource; // AudioSource untuk memutar lagu

    public AudioClip[] laguClips; // Daftar lagu untuk kuis

    public string[] correctAnswers; // Jawaban benar untuk setiap lagu (harus sama panjang dengan laguClips)
```

```
    private int currentLaguIndex = 0; // Indeks lagu saat ini
```

```
    [Header("Next Question")]

    public GameObject nextPanel; // Panel pertanyaan berikutnya

    public GameObject currentPanel; // Panel pertanyaan saat ini

    public GameObject mainPuzzlePanel; // Panel utama (main_puzzle)
```

```
void Start()
{
    // Pastikan semua elemen dalam keadaan awal

    ResetUI();
```

```
        //panelQuizLagu.SetActive(false);
    }
}
```

```
public void StartQuizLagu()
{
    // Reset UI dan aktifkan panel kuis lagu

    ResetUI();

    //panelQuizLagu.SetActive(true);

    // Mulai memutar lagu pertama

    PlayCurrentLagu();
}
```

```
private void PlayCurrentLagu()
{
    //if (currentLaguIndex < laguClips.Length && audioSource != null)

    // Aktifkan AudioSource jika sebelumnya disable

    if (!audioSource.gameObject.activeSelf)
    {
        audioSource.gameObject.SetActive(true);
    }
```

```
    if (audioSource != null)
    {
        //audioSource.clip = laguClips[currentLaguIndex];

        audioSource.Play();

        // Sembunyikan tombol Start

        btStart.gameObject.SetActive(false);

        StartCoroutine(ShowChoicesAfterAudio());
    }

    else
    {
        Debug.LogError("Tidak ada lagu yang tersedia atau AudioSource belum diatur!");
    }
```

```

    }

    private IEnumerator ShowChoicesAfterAudio()
    {
        // Tunggu hingga lagu selesai diputar
        yield return new
        WaitForSeconds(audioSource.clip.length);

        // Tampilkan pilihan jawaban
        btA.SetActive(true);
        btB.SetActive(true);
        btC.SetActive(true);
    }

    public void CheckAnswer(string selectedAnswer)
    {
        //bool isAnswerCorrect = (selectedAnswer ==
        correctAnswers[currentLaguIndex]);

        // Variabel untuk menentukan apakah jawaban
        benar

        bool isAnswerCorrect = false;

        // Tentukan jawaban benar berdasarkan nama panel
        aktif

        if (currentPanel.name == "quiz_lagu1")
        {
            isAnswerCorrect = (selectedAnswer == "A");
        }

        else if (currentPanel.name == "quiz_lagu2")
        {
            isAnswerCorrect = (selectedAnswer == "B");
        }

        else if (currentPanel.name == "quiz_lagu3")
        {
            isAnswerCorrect = (selectedAnswer == "C");
        }

        else
        {
            Debug.LogError($"Panel tidak dikenal:
            {currentPanel.name}");
        }

        if (isAnswerCorrect)
        {
            Debug.Log("Jawaban benar!");
            btBenar.SetActive(true);
            btSalah.SetActive(false);

            // Lanjutkan ke lagu berikutnya setelah jeda
            StartCoroutine(ProceedToNextQuestion());
        }
        else
        {
            Debug.Log("Jawaban salah!");
            btBenar.SetActive(false);
            btSalah.SetActive(true);

            // Berikan jeda sebelum memperbolehkan
            mencoba lagi

            StartCoroutine(HideIncorrectMessage());
        }
    }

    private IEnumerator HideIncorrectMessage()
    {
        yield return new WaitForSeconds(2f);

        btSalah.SetActive(false);
    }

    private IEnumerator ProceedToNextQuestion()
    {
        yield return new WaitForSeconds(2f);

        btBenar.SetActive(false);
    }

```

```

        // Pindah ke panel pertanyaan berikutnya
        if (nextPanel != null)
        {
            currentPanel.SetActive(false);
            nextPanel.SetActive(true);
        }
    }

    public void BackToMainMenu()
    {
        //panelQuizLagu.SetActive(false);

        // Tambahkan logika untuk kembali ke menu utama
        // Set panel main_puzzle aktif
        ResetUI();
        mainPuzzlePanel.SetActive(true);
        currentPanel.SetActive(false);
    }

    private void ResetUI()
    {
        btA.SetActive(false);
        btB.SetActive(false);
        btC.SetActive(false);
        btBenar.SetActive(false);
        btSalah.SetActive(false);
    }
}

using UnityEngine;
using UnityEngine.UI;
using System;

public class TimerManager : MonoBehaviour
{
    public Slider timerBar; // Progress bar untuk timer

    // public float maxTime = 60f; // Waktu maksimal dalam detik

```

```

    public float maxTime; // Waktu maksimal dalam detik

    private float currentTime; // Waktu saat ini
    private bool isTimerRunning = false; // Status timer

    public event Action OnTimerComplete; // Event ketika timer habis

    public PuzzleManager puzzleManager; // Referensi ke PuzzleManager

    public Text tx_waktuHabis; // Teks waktu habis
    public GameObject puzzle_gambar;

    public GameObject puzzle_gambar1; // Panel Puzzle Gambar 1
    public GameObject puzzle_gambar2; // Panel Puzzle Gambar 2

    public bool isTimeUp { get; private set; } = false;

    void Start()
    {
        ResetTimer(); // Inisialisasi timer
        SetMaxTimeBasedOnActivePanel();

        // Cari PuzzleManager di scene
        GameObject puzzleManagerObject =
        GameObject.Find("panel_puzzle_area");

        if (puzzleManagerObject != null)
        {
            puzzleManager =
            puzzleManagerObject.GetComponent<PuzzleManager>();
        }
        else
        {
            Debug.LogError("PuzzleManager tidak ditemukan! Pastikan objek dengan script PuzzleManager memiliki nama 'panel_puzzle_area.'");
        }
    }

```

```

    }

    void Update()
    {
        if (isTimerRunning)
        {
            currentT ime -= Time.deltaTime; // Kurangi waktu
            timerBar.value = currentT ime; // Perbarui progress bar

            if (currentT ime <= 0)
            {
                currentT ime = 0;
                isTimerRunning = false;
                isTimeUp = true; // Tandai bahwa waktu telah habis
                OnTimerComplete?.Invoke(); // Panggil event jika waktu habis

                // Periksa status puzzle melalui CheckPuzzleState
                bool isPuzzleComplete = puzzleManager.CheckPuzzleState();

                if (!isPuzzleComplete) // Jika puzzle belum selesai
                {
                    if (tx_waktuHabis != null)
                    {
                        tx_waktuHabis.gameObject.SetActive(true); // Tampilkan pesan waktu habis
                    }
                }
            }
        }
    }

    public void StartTimer()

```

```

    {
        isTimerRunning = true;
    }

    public void StopTimer()
    {
        isTimerRunning = false;
        currentT ime = 0; // Reset waktu
    }

    public void ResetTimer()
    {
        currentT ime = maxT ime;
        timerBar.maxValue = maxT ime;
        timerBar.value = maxT ime;

        // fillImage.color = normalColor; // Reset warna ke normal
        isTimerRunning = false;
    }

    void SetMaxTimeBasedOnActivePanel()
    {
        if (puzzle_gambar.activeSelf)
        {
            maxT ime = 60f; // Waktu untuk panel puzzle_gambar1
        }
        else if (puzzle_gambar2.activeSelf)
        {
            maxT ime = 180f; // Waktu untuk panel puzzle_gambar2
        }
        else
        {
            maxT ime = 480f; // Waktu default jika tidak ada panel aktif
        }
    }

```

```
        Debug.Log($"Max Time set to: {maxTime} for  
active panel");
```

```
    }
```

```
}
```