LAMPIRAN

1. Adapter Menu

```
package
com.thalib.a220280032.pakanudang.
activity;
import android.content.Context;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import
android.widget.RelativeLayout;
import android.widget.TextView;
import androidx.annotation.NonNull;
import
androidx.recyclerview.widget.Recycl
erView;
import
com.thalib.a220280032.pakanudang.
R;
import
com.thalib.a220280032.pakanudang.
model.ResultData;
import java.util.List;
public class AdapterMenu extends
RecyclerView.Adapter<AdapterMen
u.RecycleViewAdapter>{
   private final Context context;
   private final List<ResultData>
resultData;
   private final ItemClickListener
itemClickListener;
   public AdapterMenu(Context
context, List<ResultData>
resultData, ItemClickListener
itemClickListener) {
      this.context = context;
      this.resultData = resultData;
      this.itemClickListener =
itemClickListener;
   }
   @NonNull
   @Override
   public RecycleViewAdapter
onCreateViewHolder(@NonNull
ViewGroup parent, int viewType) {
      View view =
LayoutInflater.from(context).inflate(
R.layout.item_menu, parent, false);
      return new
RecycleViewAdapter(view,
itemClickListener);
   }
   @Override
   public void
onBindViewHolder(@NonNull final
RecycleViewAdapter holder, int
position) {
      ResultData result =
resultData.get(position);

holder.textmenu.setText(result.getM
enu());
   }
   @Override
   public int getItemCount() {
      return resultData.size();
   }
   static class RecycleViewAdapter
extends RecyclerView.ViewHolder
implements View.OnClickListener{
      TextView textmenu;
      RelativeLayout btnmenu;
      ItemClickListener
itemClickListener;
      RecycleViewAdapter(View
itemView, ItemClickListener
itemClickListener) {
         super(itemView);
         textmenu =
itemView.findViewById(R.id.textme
nu);
         btnmenu =
itemView.findViewById(R.id.button
menu);
         this.itemClickListener =
itemClickListener;

btnmenu.setOnClickListener(this);
      }
      @Override
      public void onClick(View v) {
```

```
itemClickListener.OnItemClick(v,
getAdapterPosition());
        }
    }
    public interface
ItemClickListener{
        void OnItemClick(View view,
int position);
    }
}
```

2. Adapter Sub Menu

```
package
com.thalib.a220280032.pakanudang.
activity;
import android.content.Context;
import android.content.Intent;
import
android.graphics.drawable.Drawable;
import android.text.Html;
import
android.text.method.LinkMovement
Method;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import
android.view.animation.Animation;
import
android.view.animation.AnimationUt
ils;
import android.widget.Button;
import android.widget.TextView;
import androidx.annotation.NonNull;
import
androidx.constraintlayout.widget.Co
nstraintLayout;
import
androidx.recyclerview.widget.Recycl
erView;
import com.bumptech.glide.Glide;
import
com.thalib.a220280032.pakanudang.
R;
import
com.thalib.a220280032.pakanudang.
model.ResultData;
import java.util.List;
public class AdapterSubMenu
extends
RecyclerView.Adapter<AdapterSub
Menu.RecycleViewAdapter>{
    private final Context context;
    private final List<ResultData>
resultData;
    public AdapterSubMenu(Context
context, List<ResultData>
resultData) {
        this.context = context;
        this.resultData = resultData;
    }
    @NonNull
    @Override
    public RecycleViewAdapter
onCreateViewHolder(@NonNull
ViewGroup parent, int viewType) {
        View view =
LayoutInflater.from(context).inflate(
R.layout.item_sub_menu, parent,
false);
        return new
RecycleViewAdapter(view);
    }
    @Override
    public void
onBindViewHolder(@NonNull final
RecycleViewAdapter holder, int
position) {
        Animation animadown,
animaup;
        ResultData datanya =
resultData.get(position);

holder.textmenu.setText(datanya.get
Submenu());

if(datanya.getIdmenu().equals("3")){

holder.hitung.setVisibility(View.VIS
IBLE);
```

```
holder.hitung.setOnClickListener(v -
> {
            if
(datanya.getSubmenu().equals("Blin
d Feeding")){
                Intent it = new
Intent(context,
HitungBlindFeedingActivity.class);
                context.startActivity(it);
            } else
if(datanya.getSubmenu().equals("De
mand Feeding")){
                Intent it = new
Intent(context,
HitungDemandFeedingActivity.class
);
                context.startActivity(it);
            }
        });
    }
    boolean isExpanded =
datanya.isExpanded();

holder.expandableLayout.setVisibilit
y(isExpanded ? View.VISIBLE :
View.GONE);
    animadown =
AnimationUtils.loadAnimation(conte
xt, R.anim.slide_down);
    animaup =
AnimationUtils.loadAnimation(conte
xt, R.anim.slide_up);
holder.expandableLayout.startAnima
tion(isExpanded ? animadown :
animaup);

holder.keterangannya.setText("");
holder.keterangannya.setText(Html.f
romHtml(datanya.getIsisubmenu(),
source -> {
        Drawable drawable = null;
        try {
            drawable =
Glide.with(context).load(source).sub
mit().get();
        } catch (Exception e) {
            e.printStackTrace();
        }
        if (drawable != null) {
            drawable.setBounds(0, 0,
drawable.getIntrinsicWidth(),
drawable.getIntrinsicHeight());
        }
        return drawable;
    }, null));
  }
  @Override
  public int getItemCount() {
    return resultData.size();
  }
  class RecycleViewAdapter
extends RecyclerView.ViewHolder{

    TextView textmenu,
keterangannya;
    ConstraintLayout
expandableLayout;
    Button hitung;
    RecycleViewAdapter(View
itemView) {
        super(itemView);
        textmenu =
itemView.findViewById(R.id.textme
nu);
        keterangannya =
itemView.findViewById(R.id.tvketer
angan);
        hitung =
itemView.findViewById(R.id.hitung
);
        expandableLayout =
itemView.findViewById(R.id.expan
dableLayout);

textmenu.setOnClickListener(v -> {
            ResultData datawe =
resultData.get(getAdapterPosition());

datawe.setExpanded(!datawe.isExpa
nded());
```

```
notifyItemChanged(getAdapterPositi
on());
            });
        }
    }
}
```

3. Hitung Blind Feeding Activity

```
package
com.thalib.a220280032.pakanudang.
activity;
import
android.annotation.SuppressLint;
import
android.content.pm.PackageInfo;
import
android.content.pm.PackageManager
;
import android.graphics.Color;
import android.graphics.Paint;
import android.os.Bundle;
import android.text.Editable;
import android.text.TextWatcher;
import android.view.LayoutInflater;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;
import android.view.View;
import
android.widget.RelativeLayout;
import android.widget.TextView;
import
androidx.appcompat.app.ActionBar;
import
androidx.appcompat.app.AlertDialog
;
import
androidx.appcompat.app.AppCompat
Activity;
import
androidx.appcompat.widget.Toolbar;
import
com.google.android.material.dialog.
MaterialAlertDialogBuilder;
import
com.google.android.material.textfiel
d.TextInputEditText;
import
com.google.android.material.textfiel
d.TextInputLayout;
import
com.thalib.a220280032.pakanudang.
R;
import java.text.DecimalFormat;
import java.text.NumberFormat;
import java.util.Locale;
import java.util.Objects;
public class
HitungBlindFeedingActivity extends
AppCompatActivity {
    TextInputLayout hari, jmltebar;
    TextInputEditText edthari,
edtjmltebar;
    RelativeLayout btnproses;
    @Override
    protected void onCreate(Bundle
savedInstanceState) {

super.onCreate(savedInstanceState);
setContentView(R.layout.activity_hit
ung_blind_feeding);
        hari =
findViewById(R.id.texthari);
        jmltebar =
findViewById(R.id.texttebarbenur);
        edthari =
findViewById(R.id.edthari);
        edtjmltebar =
findViewById(R.id.edttebarbenur);
edtjmltebar.addTextChangedListener
(new TextWatcher() {
            @Override
            public void
beforeTextChanged(CharSequence s,
int start, int count, int after) {
            }
            @Override
            public void
onTextChanged(CharSequence s, int
start, int before, int count) {
```

```
        }
        @Override
        public void
afterTextChanged(Editable s) {
edtjmltebar.removeTextChangedList
ener(this);
            try {
                String originalString =
s.toString();
                Long longval;
                if
(originalString.contains(",")) {
                    originalString =
originalString.replaceAll(",", "");
                }
                longval =
Long.parseLong(originalString);
                DecimalFormat
formatter = (DecimalFormat)
NumberFormat.getInstance(Locale.U
S);
formatter.applyPattern("#,###,###,##
#");
                String formattedString =
formatter.format(longval);
edtjmltebar.setText(formattedString);
edtjmltebar.setSelection(edtjmltebar.
getText().length());
            } catch
(NumberFormatException nfe) {
                nfe.printStackTrace();
            }
edtjmltebar.addTextChangedListener
(this);
        }
    });
    btnproses =
findViewById(R.id.buttonmenu);
    btnproses.setOnClickListener(v
-> {
        if (!validhariumur() |
!validtebarbenur()) {
            return;
        }
        String jmltebarText =
edtjmltebar.getText().toString().repla
ceAll(",", "");
        String hariText =
edthari.getText().toString();
        float totalkg = 0;
        float jmltebarValue =
Float.parseFloat(jmltebarText);
        int hariValue =
Integer.parseInt(hariText);
        float brpkg = jmltebarValue /
100000;
        String persen = null;
        DecimalFormat
decimalFormat = new
DecimalFormat("#.##");
        if (hariValue == 1) {
            totalkg = brpkg *
hariValue;
            persen = "2 Kali/Hari";
        } else if (hariValue == 2) {
            totalkg = brpkg + 0.2f;
            persen = "2 Kali/Hari";
        } else if (hariValue >= 3 &&
hariValue <= 21) {
            totalkg = brpkg + 0.2f *
hariValue - 0.2f;
            persen = "3 Kali/Hari";
        } else if (hariValue >= 22
&& hariValue <= 26) {
            totalkg = brpkg + 0.3f *
hariValue - 2.3f;
            persen = "3 Kali/Hari";
        } else if (hariValue >= 27
&& hariValue <= 30) {
            totalkg = brpkg + 0.5f *
hariValue - 7.5f;
            persen = "4 Kali/Hari";
        }
        String totalkgText =
decimalFormat.format(totalkg);
        LayoutInflater inflater =
getLayoutInflater();
        View customView =
inflater.inflate(R.layout.item_dialog_
rumus, null);
```

```
        TextView juduldialog =
customView.findViewById(R.id.txtd
ialjudul);
        TextView kg =
customView.findViewById(R.id.jml
pakan);
        TextView frek =
customView.findViewById(R.id.frek
pempakan);
        TextView tutupdialog =
customView.findViewById(R.id.tutu
pdialog);

juduldialog.setText("Pemberian
Pakan");
juduldialog.setTextColor(Color.parse
Color("#FFFFFF"));
juduldialog.setBackgroundColor(Col
or.parseColor("#FF8A24"));
        kg.setText(totalkgText + "
Kg");
        frek.setText(persen);
        AlertDialog dialog = new
MaterialAlertDialogBuilder(HitungB
lindFeedingActivity.this,
R.style.RoundedMaterialDialog).set
View(customView).show();
        tutupdialog.setText("Tutup");
tutupdialog.setTextColor(Color.parse
Color("#FF8A24"));
tutupdialog.setPaintFlags(Paint.UND
ERLINE_TEXT_FLAG);
        dialog.setCancelable(false);
dialog.findViewById(R.id.tutupdialo
g).setOnClickListener(v1 ->
dialog.dismiss());
      });
      Toolbar toolbar =
findViewById(R.id.toolbar);
      setSupportActionBar(toolbar);
      ActionBar mAction =
getSupportActionBar();
      assert mAction != null;
      mAction.setTitle("Blind
Feeding");
mAction.setDisplayHomeAsUpEnab
led(true);
   }
   private boolean validhariumur(){
      if
(Objects.requireNonNull(edthari.get
Text()).toString().trim().isEmpty()) {
         hari.setError("Masukkan
Umur (Hari)");
         return false;
      } else if
(edthari.getText().toString().trim().le
ngth() > 2) {
         hari.setError("Maksimal 2
Karakter");
         return false;
      } else
if(Integer.parseInt(edthari.getText().t
oString().trim()) > 30) {
         hari.setError("Maksimal 30
Hari");
         return false;
      } else {
         hari.setError(null);
         return true;
      }
   }
   private boolean validtebarbenur(){
      if
(Objects.requireNonNull(edtjmltebar
.getText()).toString().trim().isEmpty(
)) {
         jmltebar.setError("Masukkan
Jumlah Tebar Benur");
         return false;
      } else {
         jmltebar.setError(null);
         return true;
      }
   }
   public boolean
onCreateOptionsMenu(Menu menu)
{
      MenuInflater inflater =
getMenuInflater();
```

```
inflater.inflate(R.menu.tentang_apk, menu);
        return true;
    }
    @SuppressLint("SetTextI18n")
    @Override
    public boolean onOptionsItemSelected(MenuItem item) {
        if (item.getItemId() == R.id.tentang_apk) {
            LayoutInflater inflater = getLayoutInflater();
            View customView = inflater.inflate(R.layout.item_dialog, null);
            TextView juduldialog = customView.findViewById(R.id.txtdialjudul);
            TextView versidialog = customView.findViewById(R.id.versi);
            TextView tutupdialog = customView.findViewById(R.id.tutupdialog);
            juduldialog.setText("Tentang Aplikasi");
judulddialog.setTextColor(Color.parseColor("#FFFFFF"));
judulddialog.setBackgroundColor(Color.parseColor("#FF8A24"));
            PackageManager packageManager = getPackageManager();
            try {
                PackageInfo packageInfo = packageManager.getPackageInfo(getPackageName(), 0);
                String versionName = packageInfo.versionName;
                versidialog.setText("versi " + versionName);
            } catch (PackageManager.NameNotFoundException e) {
                e.printStackTrace();
            }
            AlertDialog dialog = new MaterialAlertDialogBuilder(this, R.style.RoundedMaterialDialog).setView(customView).show();
            tutupdialog.setText("Tutup");

tutupdialog.setTextColor(Color.parseColor("#FF8A24"));

tutupdialog.setPaintFlags(Paint.UNDERLINE_TEXT_FLAG);
            dialog.setCancelable(false);

dialog.findViewById(R.id.tutupdialog).setOnClickListener(v -> dialog.dismiss());
            return true;
        } else {
            super.onBackPressed();
        }
        return super.onOptionsItemSelected(item);
    }
}
```

4. Hitung Demand Feeding Activity

```
package com.thalib.a220280032.pakanudang.activity;
import android.annotation.SuppressLint;
import android.content.pm.PackageInfo;
import android.content.pm.PackageManager;
import android.graphics.Color;
import android.graphics.Paint;
import android.os.Bundle;
import android.text.Editable;
import android.text.TextWatcher;
import android.view.LayoutInflater;
import android.view.Menu;
import android.view.MenuInflater;
```

```
import android.view.MenuItem;
import android.view.View;
import
android.widget.RelativeLayout;
import android.widget.TextView;
import
androidx.appcompat.app.ActionBar;
import
androidx.appcompat.app.AlertDialog
;
import
androidx.appcompat.app.AppCompat
Activity;
import
androidx.appcompat.widget.Toolbar;
import
com.google.android.material.dialog.
MaterialAlertDialogBuilder;
import
com.google.android.material.textfiel
d.TextInputEditText;
import
com.google.android.material.textfiel
d.TextInputLayout;
import
com.thalib.a220280032.pakanudang.
R;
import java.text.DecimalFormat;
import java.text.NumberFormat;
import java.util.Locale;
import java.util.Objects;
public class
HitungDemandFeedingActivity
extends AppCompatActivity {
   TextInputLayout jmludang,
sintasan, bbgram, persenpakan;
   TextInputEditText edtjmludang,
edtsintasan, edtbbgram,
edtpersenpakan;
   RelativeLayout btnproses;
   @Override
   protected void onCreate(Bundle
savedInstanceState) {

super.onCreate(savedInstanceState);
setContentView(R.layout.activity_hit
ung_demand_feeding);
      jmludang =

findViewById(R.id.textjmludangdite
bar);
      sintasan =
findViewById(R.id.textsintasan);
      bbgram =
findViewById(R.id.textberatbadan);
      persenpakan =
findViewById(R.id.textpersentase);
      edtjmludang =
findViewById(R.id.edtjmludangdite
bar);

edtjmludang.addTextChangedListene
r(new TextWatcher() {
         @Override
         public void
beforeTextChanged(CharSequence s,
int start, int count, int after) {
         }
         @Override
         public void
onTextChanged(CharSequence s, int
start, int before, int count) {
         }
         @Override
         public void
afterTextChanged(Editable s) {
edtjmludang.removeTextChangedLis
tener(this);
            try {
               String originalString =
s.toString();

               Long longval;
               if
(originalString.contains(",")) {
                  originalString =
originalString.replaceAll(",", "");
               }
               longval =
Long.parseLong(originalString);
```

```
                DecimalFormat
formatter = (DecimalFormat)
NumberFormat.getInstance(Locale.U
S);
formatter.applyPattern("#,###,###,##
#");
                String formattedString =
formatter.format(longval);


edtjmludang.setText(formattedString
);
edtjmludang.setSelection(edtjmludan
g.getText().length());
            } catch
(NumberFormatException nfe) {
                nfe.printStackTrace();
            }
edtjmludang.addTextChangedListene
r(this);
        }
    });
    edtsintasan =
findViewById(R.id.edtsintasan);
    edtbbgram =
findViewById(R.id.edtberatbadan);
    edtpersenpakan =
findViewById(R.id.edtpersentase);
    btnproses =
findViewById(R.id.buttonmenu);
    btnproses.setOnClickListener(v
-> {
        if (!validjmludang() |
!validsintasan() | !validbbrr() |
!validpersentase()) {
            return;
        }
        String jmludangText =
edtjmludang.getText().toString().repl
aceAll(",", "");
        String sinText =
edtsintasan.getText().toString();
        String bbrrText =
edtbbgram.getText().toString();
        String persenText =
edtpersenpakan.getText().toString();
        float jmltebarValue =
Float.parseFloat(jmludangText);
        float sinValue =
Float.parseFloat(sinText);
        float bbrrValue =
Float.parseFloat(bbrrText);
        float persenValue =
Float.parseFloat(persenText);
        float totalg = jmltebarValue *
(sinValue/100) * bbrrValue *
(persenValue/100);

        DecimalFormat dform = new
DecimalFormat("#,###");
        String totalgText =
dform.format(totalg);

        LayoutInflater inflater =
getLayoutInflater();
        View customView =
inflater.inflate(R.layout.item_dialog_
rumus, null);
        TextView juduldialog =
customView.findViewById(R.id.txtd
ialjudul);
        TextView kg =
customView.findViewById(R.id.jml
pakan);
        TextView frek =
customView.findViewById(R.id.frek
pempakan);
        TextView tutupdialog =
customView.findViewById(R.id.tutu
pdialog);

juduldialog.setText("Pemberian
Pakan");

juduldialog.setTextColor(Color.parse
Color("#FFFFFF"));

juduldialog.setBackgroundColor(Col
or.parseColor("#FF8A24"));
        kg.setText(totalgText + " g");
        frek.setText("5 Kali/Hari");
```

```
        AlertDialog dialog = new
MaterialAlertDialogBuilder(HitungD
emandFeedingActivity.this,
R.style.RoundedMaterialDialog).set
View(customView).show();
        tutupdialog.setText("Tutup");
tutupdialog.setTextColor(Color.parse
Color("#FF8A24"));
tutupdialog.setPaintFlags(Paint.UND
ERLINE_TEXT_FLAG);
        dialog.setCancelable(false);
dialog.findViewById(R.id.tutupdialo
g).setOnClickListener(v1 ->
dialog.dismiss());
    });

    Toolbar toolbar =
findViewById(R.id.toolbar);
    setSupportActionBar(toolbar);
    ActionBar mAction =
getSupportActionBar();
    assert mAction != null;
    mAction.setTitle("Demand
Feeding");
mAction.setDisplayHomeAsUpEnab
led(true);
  }
  private boolean validjmludang(){
    if
(Objects.requireNonNull(edtjmludan
g.getText()).toString().trim().isEmpt
y()) {

jmludang.setError("Masukkan
Jumlah Udang (Ekor)");
        return false;
    } else {
        jmludang.setError(null);
        return true;
    }
  }
  private boolean validsintasan(){
    if
(Objects.requireNonNull(edtsintasan.
getText()).toString().trim().isEmpty()
) {
        sintasan.setError("Masukkan
Sintasan (%)");
        return false;
    } else if
(edtsintasan.getText().toString().trim
().length() > 3) {
        sintasan.setError("Maksimal
3 Karakter");
        return false;
    } else
if(Float.parseFloat(edtsintasan.getTe
xt().toString().trim()) > 100) {
        sintasan.setError("Maksimal
100 %");
        return false;
    } else {
        sintasan.setError(null);
        return true;
    }
  }

  private boolean validbbrr(){
    if
(Objects.requireNonNull(edtbbgram.
getText()).toString().trim().isEmpty()
) {
        bbgram.setError("Masukkan
Berat Badan Rata-rata (gram)");
        return false;
    } else if
(edtbbgram.getText().toString().trim(
).length() > 4) {
        bbgram.setError("Maksimal 4
Karakter");
        return false;
    } else
if(Float.parseFloat(edtbbgram.getTe
xt().toString().trim()) > 21) {
        bbgram.setError("Maksimal
21 gram");
        return false;
    } else {
        bbgram.setError(null);
        return true;
    }
  }
```

```
    private boolean validpersentase(){
        if
(Objects.requireNonNull(edtpersenp
akan.getText()).toString().trim().isE
mpty()) {

persenpakan.setError("Masukkan
Persentase Pemberian Pakan (%)");
            return false;
        } else if
(edtpersenpakan.getText().toString().
trim().length() > 4) {

persenpakan.setError("Maksimal 4
Karakter");
            return false;
        } else
if(Float.parseFloat(edtpersenpakan.g
etText().toString().trim()) > 10) {

persenpakan.setError("Maksimal 10
%");
            return false;
        } else {
            persenpakan.setError(null);
            return true;
        }
    }
    public boolean
onCreateOptionsMenu(Menu menu)
{
        MenuInflater inflater =
getMenuInflater();

inflater.inflate(R.menu.tentang_apk,
menu);
        return true;
    }
    @SuppressLint("SetTextI18n")
    @Override
    public boolean
onOptionsItemSelected(MenuItem
item) {
        if (item.getItemId() ==
R.id.tentang_apk) {
            LayoutInflater inflater =
getLayoutInflater();
            View customView =
inflater.inflate(R.layout.item_dialog,
null);
            TextView juduldialog =
customView.findViewById(R.id.txtd
ialjudul);
            TextView versidialog =
customView.findViewById(R.id.vers
i);
            TextView tutupdialog =
customView.findViewById(R.id.tutu
pdialog);
            juduldialog.setText("Tentang
Aplikasi");
juduldialog.setTextColor(Color.parse
Color("#FFFFFF"));
juduldialog.setBackgroundColor(Col
or.parseColor("#FF8A24"));
            PackageManager
packageManager =
getPackageManager();
            try {
                PackageInfo packageInfo =
packageManager.getPackageInfo(get
PackageName(), 0);
                String versionName =
packageInfo.versionName;
                versidialog.setText("versi "
+ versionName);
            } catch
(PackageManager.NameNotFoundEx
ception e) {
                e.printStackTrace();
            }
            AlertDialog dialog = new
MaterialAlertDialogBuilder(this,
R.style.RoundedMaterialDialog).set
View(customView).show();
            tutupdialog.setText("Tutup");
tutupdialog.setTextColor(Color.parse
Color("#FF8A24"));
tutupdialog.setPaintFlags(Paint.UND
ERLINE_TEXT_FLAG);
            dialog.setCancelable(false);
```

```
dialog.findViewById(R.id.tutupdialo
g).setOnClickListener(v ->
dialog.dismiss());
            return true;
        } else {
            super.onBackPressed();
        }
        return
super.onOptionsItemSelected(item);
    }
}
```

5. Menu Activity

```
package
com.thalib.a220280032.pakanudang.
activity;
import androidx.annotation.NonNull;
import
androidx.appcompat.app.ActionBar;
import
androidx.appcompat.app.AlertDialog
;
import
androidx.appcompat.app.AppCompat
Activity;
import
androidx.appcompat.widget.Toolbar;
import
androidx.recyclerview.widget.Linear
LayoutManager;
import
androidx.recyclerview.widget.Recycl
erView;import
androidx.swiperefreshlayout.widget.
SwipeRefreshLayout;

import
android.annotation.SuppressLint;
import android.content.Intent;
import
android.content.pm.PackageInfo;
import
android.content.pm.PackageManager
;
import android.graphics.Color;
import android.graphics.Paint;
import android.os.Bundle;
import android.view.LayoutInflater;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;
import android.view.View;
import android.widget.Button;
import android.widget.ImageView;
import
android.widget.RelativeLayout;
import android.widget.TextView;
import
com.google.android.material.dialog.
MaterialAlertDialogBuilder;
import
com.thalib.a220280032.pakanudang.
R;
import
com.thalib.a220280032.pakanudang.
api.ApiClient;
import
com.thalib.a220280032.pakanudang.
api.ApiInterface;
import
com.thalib.a220280032.pakanudang.
model.ResultData;
import java.util.List;
import retrofit2.Call;
import retrofit2.Callback;
import retrofit2.Response;
public class MenuActivity extends
AppCompatActivity {
    private RecyclerView
recyclerView;
    private SwipeRefreshLayout
mSwipeRefreshLayout;
    private RelativeLayout
errorlayout;
    private ImageView imgerror;
    private TextView errortitle,
errormessage;
    private Button btnretry;
    AdapterMenu adapterMenu;
    AdapterMenu.ItemClickListener
itemClickListener;
    List<ResultData> resultData;
```

```
    @Override
    protected void onCreate(Bundle
savedInstanceState) {

super.onCreate(savedInstanceState);
setContentView(R.layout.activity_m
enu);
        errorlayout =
findViewById(R.id.rel_error);
        imgerror =
findViewById(R.id.imgerror);
        errortitle =
findViewById(R.id.tverror);
        errormessage =
findViewById(R.id.tvsuberror);
        btnretry =
findViewById(R.id.btnretry);
        mSwipeRefreshLayout =
findViewById(R.id.swaplistmenu);
        recyclerView =
findViewById(R.id.listviewmenu);

recyclerView.setLayoutManager(ne
w LinearLayoutManager(this));

recyclerView.setHasFixedSize(true);
        getmenu();
mSwipeRefreshLayout.setColorSche
meResources(

android.R.color.holo_blue_dark,

android.R.color.holo_green_dark,
android.R.color.holo_orange_dark,

android.R.color.holo_red_dark);
mSwipeRefreshLayout.setOnRefresh
Listener(this::getmenu);
        itemClickListener = ((view,
position) -> {
            String idmenu =
resultData.get(position).getIdmenu();
            String menu =
resultData.get(position).getMenu();
            Intent it = new
Intent(MenuActivity.this,
SubMenuActivity.class);
            it.putExtra("idmenu",
idmenu);
            it.putExtra("menu", menu);
            startActivity(it);
        });
        Toolbar toolbar =
findViewById(R.id.toolbar);
        setSupportActionBar(toolbar);
        ActionBar mAction =
getSupportActionBar();
        assert mAction != null;
        mAction.setTitle("Menu");
    }
    @Override
    public boolean
onCreateOptionsMenu(Menu menu)
{
        MenuInflater inflater =
getMenuInflater();

inflater.inflate(R.menu.tentang_apk,
menu);
        return true;
    }
    @SuppressLint("SetTextI18n")
    @Override
    public boolean
onOptionsItemSelected(MenuItem
item) {
        if (item.getItemId() ==
R.id.tentang_apk) {
            LayoutInflater inflater =
getLayoutInflater();
            View customView =
inflater.inflate(R.layout.item_dialog,
null);
            TextView juduldialog =
customView.findViewById(R.id.txtd
ialjudul);
            TextView versidialog =
customView.findViewById(R.id.vers
i);
```

```
        TextView tutupdialog =
customView.findViewById(R.id.tutu
pdialog);
        juduldialog.setText("Tentang
Aplikasi");
judduldialog.setTextColor(Color.parse
Color("#FFFFFF"));
judduldialog.setBackgroundColor(Col
or.parseColor("#FF8A24"));
        PackageManager
packageManager =
getPackageManager();
        try {
            PackageInfo packageInfo =
packageManager.getPackageInfo(get
PackageName(), 0);
            String versionName =
packageInfo.versionName;
            versidialog.setText("versi "
+ versionName);
        } catch
(PackageManager.NameNotFoundEx
ception e) {
            e.printStackTrace();
        }
        AlertDialog dialog = new
MaterialAlertDialogBuilder(this,
R.style.RoundedMaterialDialog).set
View(customView).show();
        tutupdialog.setText("Tutup");
tutupdialog.setTextColor(Color.parse
Color("#FF8A24"));
tutupdialog.setPaintFlags(Paint.UND
ERLINE_TEXT_FLAG);
        dialog.setCancelable(false);
dialog.findViewById(R.id.tutupdialo
g).setOnClickListener(v ->
dialog.dismiss());
        return true;
      }
      return
super.onOptionsItemSelected(item);
   }
   private void getmenu() {
errorlayout.setVisibility(View.GON
E);
      showLoading();
      ApiInterface apiInterface =
ApiClient.getApiClient().create(ApiI
nterface.class);
      Call<List<ResultData>> call =
apiInterface.getMenu();
      call.enqueue(new
Callback<List<ResultData>>() {
         @Override
         public void
onResponse(@NonNull
Call<List<ResultData>> call,
@NonNull
Response<List<ResultData>>
response) {
            hideLoading();
            if(response.isSuccessful()
&& response.body() != null){

onGetResult(response.body());
            }else{
               String errorCode;
               switch
(response.code()){
                  case 404:
                     errorCode = "404
not found";
                     break;
                  case 500:
                     errorCode = "500
server broken";
                     break;
                  default:
                     errorCode =
"Unknown error";
                     break;
               }
showErrorMessage(R.drawable.no_r
esult, "No Result", "Please Try
Again!\n"+ errorCode);
            }
         }
         @Override
```

```
        public void
onFailure(@NonNull
Call<List<ResultData>> call,
@NonNull Throwable t) {
            hideLoading();

onErrorLoading(t.toString());
        }
      });
   }
   private void showLoading() {
mSwipeRefreshLayout.setRefreshing
(true);
   }
   private void hideLoading() {
mSwipeRefreshLayout.setRefreshing
(false);
   }

@SuppressLint("NotifyDataSetChan
ged")
   private void
onGetResult(List<ResultData>
results) {
      adapterMenu = new
AdapterMenu(this, results,
itemClickListener);

adapterMenu.notifyDataSetChanged(
);

recyclerView.setAdapter(adapterMe
nu);
      resultData = results;
   }
   private void
onErrorLoading(String message) {
showErrorMessage(R.drawable.no_r
esult, "Oops...", "Network failure,
Please Try Again!.\n"+ message);
   }
   private void
showErrorMessage(int imageView,
String title, String message){
      if(errorlayout.getVisibility() ==
View.GONE){
errorlayout.setVisibility(View.VISIB
LE);
      }

imgerror.setImageResource(imageVi
ew);
      errortitle.setText(title);
      errormessage.setText(message);

btnretry.setOnClickListener(view ->
getmenu());
   }
}
```

6. Sub Menu Activity

```
package
com.thalib.a220280032.pakanudang.
activity;
import
android.annotation.SuppressLint;
import android.content.Intent;
import
android.content.pm.PackageInfo;
import
android.content.pm.PackageManager
;
import android.graphics.Color;
import android.graphics.Paint;
import android.os.Bundle;
import android.view.LayoutInflater;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;
import android.view.View;
import android.widget.Button;
import android.widget.ImageView;
import
android.widget.RelativeLayout;
import android.widget.TextView;
import androidx.annotation.NonNull;
import
androidx.appcompat.app.ActionBar;
import
androidx.appcompat.app.AlertDialog
;
```

```
import
androidx.appcompat.widget.Toolbar;
import
androidx.appcompat.app.AppCompat
Activity;
import
androidx.recyclerview.widget.Linear
LayoutManager;
import
androidx.recyclerview.widget.Recycl
erView;
import
androidx.swiperefreshlayout.widget.
SwipeRefreshLayout;
import
com.google.android.material.dialog.
MaterialAlertDialogBuilder;
import
com.thalib.a220280032.pakanudang.
R;
import
com.thalib.a220280032.pakanudang.
api.ApiClient;
import
com.thalib.a220280032.pakanudang.
api.ApiInterface;
import
com.thalib.a220280032.pakanudang.
model.ResultData;
import java.util.List;
import retrofit2.Call;
import retrofit2.Callback;
import retrofit2.Response;
public class SubMenuActivity
extends AppCompatActivity {
   private RecyclerView
recyclerView;
   private SwipeRefreshLayout
mSwipeRefreshLayout;
   private RelativeLayout
errorlayout;
   private ImageView imgerror;
   private TextView errortitle,
errormessage;
   private Button btnretry;
   AdapterSubMenu
adapterSubMenu;
   List<ResultData> resultData;
   String idmenu, menu;
   @Override
   protected void onCreate(Bundle
savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity_su
b_menu);
      errorlayout =
findViewById(R.id.rel_error);
      imgerror =
findViewById(R.id.imgerror);
      errortitle =
findViewById(R.id.tverror);
      errormessage =
findViewById(R.id.tvsuberror);
      btnretry =
findViewById(R.id.btnretry);
      mSwipeRefreshLayout =
findViewById(R.id.swaplistsubmenu
);
      recyclerView =
findViewById(R.id.listviewsubmenu
);

recyclerView.setLayoutManager(ne
w LinearLayoutManager(this));

recyclerView.setHasFixedSize(true);
      Intent get = getIntent();
      idmenu =
get.getStringExtra("idmenu");
      menu =
get.getStringExtra("menu");
      getsubmenu(idmenu);
mSwipeRefreshLayout.setColorSche
meResources(

android.R.color.holo_blue_dark,

android.R.color.holo_green_dark,
android.R.color.holo_orange_dark,
```

```
android.R.color.holo_red_dark);
mSwipeRefreshLayout.setOnRefresh
Listener(() -> getsubmenu(idmenu));
        Toolbar toolbar =
findViewById(R.id.toolbar);
        setSupportActionBar(toolbar);
        ActionBar mAction =
getSupportActionBar();
        assert mAction != null;
        mAction.setTitle("Sub Menu");
        mAction.setSubtitle(menu);
mAction.setDisplayHomeAsUpEnab
led(true);
    }
    @Override
    public boolean
onCreateOptionsMenu(Menu menu)
{
        MenuInflater inflater =
getMenuInflater();

inflater.inflate(R.menu.tentang_apk,
menu);
        return true;
    }
    @SuppressLint("SetTextI18n")
    @Override
    public boolean
onOptionsItemSelected(MenuItem
item) {
        if (item.getItemId() ==
R.id.tentang_apk) {
            LayoutInflater inflater =
getLayoutInflater();
            View customView =
inflater.inflate(R.layout.item_dialog,
null);
            TextView juduldialog =
customView.findViewById(R.id.txtd
ialjudul);
            TextView versidialog =
customView.findViewById(R.id.vers
i);
            TextView tutupdialog =
customView.findViewById(R.id.tutu
pdialog);
            juduldialog.setText("Tentang
Aplikasi");

juduldialog.setTextColor(Color.parse
Color("#FFFFFF"));

juduldialog.setBackgroundColor(Col
or.parseColor("#FF8A24"));
            PackageManager
packageManager =
getPackageManager();
            try {
                PackageInfo packageInfo =
packageManager.getPackageInfo(get
PackageName(), 0);
                String versionName =
packageInfo.versionName;
                versidialog.setText("versi "
+ versionName);
            } catch
(PackageManager.NameNotFoundEx
ception e) {
                e.printStackTrace();
            }
            AlertDialog dialog = new
MaterialAlertDialogBuilder(this,
R.style.RoundedMaterialDialog).set
View(customView).show();
            tutupdialog.setText("Tutup");
tutupdialog.setTextColor(Color.parse
Color("#FF8A24"));
tutupdialog.setPaintFlags(Paint.UND
ERLINE_TEXT_FLAG);
            dialog.setCancelable(false);
dialog.findViewById(R.id.tutupdialo
g).setOnClickListener(v ->
dialog.dismiss());
            return true;
        } else {
            super.onBackPressed();
        }
        return
super.onOptionsItemSelected(item);
```

```
    }
    private void getsubmenu(String
id){

errorlayout.setVisibility(View.GON
E);
        showLoading();
        ApiInterface apiInterface =
ApiClient.getApiClient().create(ApiI
nterface.class);
        Call<List<ResultData>> call =
apiInterface.getSubMenu(id);
        call.enqueue(new
Callback<List<ResultData>>() {
            @Override
            public void
onResponse(@NonNull
Call<List<ResultData>> call,
@NonNull
Response<List<ResultData>>
response) {
                hideLoading();
                if(response.isSuccessful()
&& response.body() != null){

onGetResult(response.body());
                }else{
                    String errorCode;
                    switch
(response.code()){
                        case 404:
                            errorCode = "404
not found";
                            break;
                        case 500:
                            errorCode = "500
server broken";
                            break;
                        default:
                            errorCode =
"Unknown error";
                            break;
                    }
showErrorMessage(R.drawable.no_r
esult, "No Result", "Please Try
Again!\n"+ errorCode);
                }
            }
            @Override
            public void
onFailure(@NonNull
Call<List<ResultData>> call,
@NonNull Throwable t) {
                hideLoading();

onErrorLoading(t.toString());
            }
        });
    }
    private void showLoading() {
mSwipeRefreshLayout.setRefreshing
(true);
    }
    private void hideLoading() {
mSwipeRefreshLayout.setRefreshing
(false);
    }
@SuppressLint("NotifyDataSetChan
ged")
    private void
onGetResult(List<ResultData>
results) {
        adapterSubMenu = new
AdapterSubMenu(this, results);
adapterSubMenu.notifyDataSetChan
ged();
recyclerView.setAdapter(adapterSub
Menu);
        resultData = results;
    }
    private void
onErrorLoading(String message) {
showErrorMessage(R.drawable.no_r
esult, "Oops...", "Network failure,
Please Try Again!.\n"+ message);
    }
    private void
showErrorMessage(int imageView,
String title, String message){

        if(errorlayout.getVisibility() ==
View.GONE){
```

```
errorlayout.setVisibility(View.VISIBLE);
        }
imgerror.setImageResource(imageView);
        errortitle.setText(title);
        errormessage.setText(message);

btnretry.setOnClickListener(view -> getsubmenu(idmenu));
    }
}
```

7. Api Client

```
package com.thalib.a220280032.pakanudang.api;
import retrofit2.Retrofit;
import retrofit2.converter.gson.GsonConverterFactory;
public class ApiClient {
    public static final String BASE_URL = "https://sayidthalib.000webhostapp.com/";
    private static Retrofit retrofit;
    public static Retrofit getApiClient() {
        if (retrofit == null) {
            retrofit = new Retrofit.Builder().baseUrl(BASE_URL).addConverterFactory(GsonConverterFactory.create()).build();
        }
        return retrofit;
    }
}
```

8. Api Interface

```
package com.thalib.a220280032.pakanudang.api;
import com.thalib.a220280032.pakanudang.model.ResultData;
import java.util.List;
import retrofit2.Call;
import retrofit2.http.GET;
import retrofit2.http.Query;
public interface ApiInterface {

@GET("aksi.php?aksi=tampildatamenu")
    Call<List<ResultData>> getMenu();
@GET("aksi.php?aksi=tampildatasubmenu")
    Call<List<ResultData>> getSubMenu(@Query("id") String idmenu);
}
```

9. Result Data

```
package com.thalib.a220280032.pakanudang.model;
import com.google.gson.annotations.Expose;
import com.google.gson.annotations.SerializedName;
public class ResultData {
    @Expose
    @SerializedName("idmenu")
private String idmenu;
    @Expose
    @SerializedName("menu") private String menu;
    @Expose
    @SerializedName("idsubmenu")
private String idsubmenu;
    @Expose
    @SerializedName("submenu")
private String submenu;
    @Expose
    @SerializedName("isisubmenu")
private String isisubmenu;
    private boolean expanded;
    public String getIdmenu() {
        return idmenu;
    }
    public void setIdmenu(String idmenu) {
```

```
        this.idmenu = idmenu;
    }
    public String getMenu() {
        return menu;
    }
    public void setMenu(String menu)
{
        this.menu = menu;
    }
    public String getIdsubmenu() {
        return idsubmenu;
    }

    public void setIdsubmenu(String
idsubmenu) {
        this.idsubmenu = idsubmenu;
    }
    public String getSubmenu() {
        return submenu;
    }
    public void setSubmenu(String
submenu) {
        this.submenu = submenu;
    }
    public String getIsisubmenu() {
        return isisubmenu;
    }
    public void setIsisubmenu(String
isisubmenu) {
        this.isisubmenu = isisubmenu;
    }
    public boolean isExpanded() {
        return expanded;
    }
    public void setExpanded(boolean
expanded) {
        this.expanded = expanded;
    }
```

KARTU MONITORING BIMBINGAN

MAHASISWA PROGRAM STUDI TEKNIK INFORMATIKA
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH PAREPARE

PROPOSAL

Mahasiswa : MUH. ABDUL MUTALIB	Pembimbing I : Marlina, S.Kom., M.Kom.
NIM : 220280032	Pembimbing II : Andi Wafiah, S.Kom.,M.Kom.
Judul Skripsi : *APLIKASI SISTEM PANDUAN PEMBERIAN PAKAN UDANG VANAME BERBASIS ANDROID*	

ARAHAN PEMBIMBING I	HARI/TGL & PARAF PEMBIMBING	ARAHAN PEMBIMBING II	HARI/TGL & PARAF PEMBIMBING
Konsultasi 1 - Perbaiki daftar isi - Perbaiki tabel - Perbaiki Penulisan terkait	29/9/2023	Konsultasi 1 - Lengkapi dan pahami desain sistem - Survey lokasi	19/9/2023
Konsultasi 2 Tambahkan Narasi pd desain Sistem		Konsultasi 2 - Lengkapi BAB II dgn teori Pemberian pakan (Buku)	2/10/2023
Konsultasi 3 Acc Ujian Proposal	13/11/2023	Konsultasi 3 Tambahkan flowchart aplikasi & Sistem	20/10/2023
Konsultasi 4		Konsultasi 4 Lengkapi sistem yang berjalan dan yang diusulkan	23/10/2023
Konsultasi 5		Konsultasi 5 Acc Ujian Proposal	13/11/2023

Lanjut ke halaman sebelah...

Perhatian :

1. Mahasiswa wajib konsultasi minimal 5 kali
2. Kartu ini wajib dibawa oleh mahasiswa disetiap konsultasi dan diisi oleh Pembimbing
3. Kartu ini wajib dilampirkan pada laporan skripsi dan menjadi salah satu persyaratan untuk ikut seminar proposal/ujian skripsi
4. Kartu ini dicetak di atas kertas karton berwarna hijau muda dan dicetak timbal balik

Lampiran ...

ARAHAN PEMBIMBING I	HARI/TGL & PARAF PEMBIMBING	ARAHAN PEMBIMBING II	HARI/TGL & PARAF PEMBIMBING
Konsultasi 6 Tambahkan Background Sesuai dg Judul Anda.		Konsultasi 6 Hasil penggunaan pakan setiap panen: 100.000, hari panen brp pakan. Berat yg dihasilkan brp?	19/3
Konsultasi 7 Sesuaikan Font di tabel.		Konsultasi 7 buatkan Laporan Pemberian Pakan dlm 1 periode	19/3/2024
Konsultasi 8		Konsultasi 8 Acc Ujian hasil	25/3/2024
Konsultasi 9 Acc Ujian Hasil	25/3/2024	Konsultasi 9 - Dokumen disesuaikan dgn format - Lengkapi dokumen sesuai koreksi	15/4/2024
Konsultasi 10 Acc Ujian Tutup.	16/04/2024	Konsultasi 10 Acc ujian Tutup	15/4/2024

Parepare, 13 November 2023

Mengetahui
Ketua Program Studi

Marlina, S.Kom.,M.Kom.
NBM. 1162 680

Mahasiswa

MUH. ABDUL MUTALIB
NIM. **220280032**

Perhatian :

1. Mahasiswa wajib konsultasi minimal 5 kali
2. Kartu ini wajib dibawa oleh mahasiswa disetiap konsultasi dan diisi oleh Pembimbing
3. Kartu ini wajib dilampirkan pada laporan skripsi dan menjadi salah satu persyaratan untuk ikut seminar proposal/ujian skripsi
4. Kartu ini dicetak di atas kertas karton berwarna hijau muda dan dicetak timbal balik

LEMBAGA PENGKAJIAN DAN PENGEMBANGAN ISLAM
KEMUHAMMADIYAHAN DAN KADER
UNIVERSITAS MUHAMMADIYAH PAREPARE

SERTIFIKAT

Nomor: 172/UKOM-AIK/LPPIK-UMPAR/II/2024

Diberikan Kepada

MUH. ABDUL MUTALIB

Sebagai PESERTA yang Dinyatakan LULUS
Pada Ujian Kompetensi Al Islam Kemuhammadiyahan (UKOM AIK)
Universitas Muhammadiyah Parepare Tahun Akademik 2023/2024
Dengan Predikat Nilai:

A / B / C / D / E

Parepare, 29 Februari 2024 M / 19 Sya'ban 1445 H

Mengetahui,

Ketua LPPIK	Sekretaris LPPIK
Drs. M. Najib La Ady, M.Pd.I	Muh. Makki, S.Ag., M.Ag
NBM. 710 245	NBM. 969 421