activity\_main.xml

<?xml version="1.0" encoding="utf-8"?>

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:app="http://schemas.android.com/apk/res-auto"

xmlns:tools="http://schemas.android.com/tools"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

tools:context=".MainActivity" >

<TextView

android:layout\_width="match\_parent"

android:layout\_height="150dp"

android:gravity="center"

android:textSize="30dp"

android:text="Hangman Game"/>

<TextView

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:textSize="25dp"

android:text="Player 1"/>

<TextView

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginTop="10dp"

android:layout\_marginBottom="10dp"

android:gravity="center"

android:text="Input your word:"

android:textSize="20dp" />

<EditText

android:id="@+id/tEdit\_inputWord"

android:layout\_width="150dp"

android:layout\_height="wrap\_content"

android:layout\_gravity="center"

android:textSize="20dp"/>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="55dp"

android:gravity="center|bottom"

android:orientation="horizontal">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginRight="10dp"

android:textSize="20dp"

android:text="Hint?"/>

<RadioGroup

android:id="@+id/rGroup\_Optional"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:orientation="horizontal">

<RadioButton

android:id="@+id/rButton\_Yes"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:textSize="10dp"

android:text="Yes"/>

<RadioButton

android:id="@+id/rButton\_No"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:textSize="10dp"

android:text="No"/>

</RadioGroup>

</LinearLayout>

<TextView

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginTop="10dp"

android:layout\_marginBottom="10dp"

android:gravity="center"

android:textSize="20dp"

android:text="Clue (Optional):"/>

<EditText

android:id="@+id/tEdit\_inputClue"

android:layout\_width="150dp"

android:layout\_height="wrap\_content"

android:layout\_gravity="center"

android:textSize="20dp"/>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginTop="20dp"

android:orientation="vertical">

<Button

android:id="@+id/btn\_Play"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="PLAY GAME"/>

<Button

android:id="@+id/btn\_HowTo"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="HOW TO PLAY"/>

</LinearLayout>

</LinearLayout>

MainActivity.java

package com.nix.mdpm2\_6615;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.net.Uri;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.RadioButton;

import android.widget.Toast;

import java.util.Random;

public class MainActivity extends AppCompatActivity implements View.OnClickListener {

Random r= new Random();

EditText inputSoal, inputClue;

RadioButton yes, no;

Button play, howTo;

Intent nextActivity;

Bundle data;

String soal, hint, clue;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

inputSoal= findViewById(R.id.tEdit\_inputWord);

inputClue= findViewById(R.id.tEdit\_inputClue);

yes= findViewById(R.id.rButton\_Yes);

no= findViewById(R.id.rButton\_No);

play= findViewById(R.id.btn\_Play);

howTo= findViewById(R.id.btn\_HowTo);

hint= "";

clue= "";

play.setOnClickListener(this);

howTo.setOnClickListener(this);

}

@Override

public void onClick(View view) {

if (view.getId() == R.id.btn\_Play) {

soal= inputSoal.getText().toString();

clue= inputClue.getText().toString();

if (yes.isChecked()) {

if (soal.length() > 0) {

hint= String.valueOf(soal.charAt(r.nextInt(soal.length())));

}

} else if (no.isChecked()) {

hint= "";

}

if (checkSoal() && checkClue()) {

nextActivity= new Intent(MainActivity.this, GameActivity.class);

data= new Bundle();

data.putString("soal", soal);

data.putString("hint", hint);

data.putString("clue", clue);

nextActivity.putExtras(data);

startActivity(nextActivity);

}

}

if (view.getId() == R.id.btn\_HowTo) {

String url= "https://m.wikihow.com/Play-Hangman";

nextActivity= new Intent(Intent.ACTION\_VIEW, Uri.parse(url));

startActivity(nextActivity);

}

}

private boolean checkSoal() {

if (soal.length() > 0) {

if (soal.length() >= 5) {

return true;

} else {

Toast.makeText(

this,

"Minimum 5 character length",

Toast.LENGTH\_SHORT

).show();

}

} else {

Toast.makeText(

this,

"Please input question",

Toast.LENGTH\_SHORT

).show();

}

return false;

}

private boolean checkClue() {

if (!clue.equalsIgnoreCase(soal)) {

return true;

} else {

Toast.makeText(

this,

"Clue must not be same as question",

Toast.LENGTH\_SHORT

).show();

}

return false;

}

}

activity\_game.xml

<?xml version="1.0" encoding="utf-8"?>

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:app="http://schemas.android.com/apk/res-auto"

xmlns:tools="http://schemas.android.com/tools"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

tools:context=".GameActivity">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginBottom="10dp"

android:gravity="right"

android:orientation="horizontal">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:textSize="20dp"

android:text="Life: "/>

<TextView

android:id="@+id/tView\_Life"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:textSize="20dp"/>

</LinearLayout>

<TextView

android:id="@+id/tView\_Word"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginBottom="10dp"

android:gravity="center"

android:textSize="30dp"/>

<TextView

android:id="@+id/tView\_Clue"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginBottom="20dp"

android:gravity="center"

android:textSize="15dp"/>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="60dp"

android:orientation="horizontal">

<Button

android:id="@+id/btn1"

android:layout\_width="wrap\_content"

android:layout\_height="match\_parent"

android:layout\_marginLeft="5dp"

android:layout\_marginBottom="5dp"

android:layout\_weight="1"

android:textSize="15dp"

android:text="A"/>

<Button

android:id="@+id/btn2"

android:layout\_width="wrap\_content"

android:layout\_height="match\_parent"

android:layout\_marginLeft="5dp"

android:layout\_marginBottom="5dp"

android:layout\_weight="1"

android:textSize="15dp"

android:text="B"/>

<Button

android:id="@+id/btn3"

android:layout\_width="wrap\_content"

android:layout\_height="match\_parent"

android:layout\_marginLeft="5dp"

android:layout\_marginBottom="5dp"

android:layout\_weight="1"

android:textSize="15dp"

android:text="C"/>

<Button

android:id="@+id/btn4"

android:layout\_width="wrap\_content"

android:layout\_height="match\_parent"

android:layout\_marginLeft="5dp"

android:layout\_marginBottom="5dp"

android:layout\_weight="1"

android:textSize="15dp"

android:text="D"/>

<Button

android:id="@+id/btn5"

android:layout\_width="wrap\_content"

android:layout\_height="match\_parent"

android:layout\_marginLeft="5dp"

android:layout\_marginBottom="5dp"

android:layout\_weight="1"

android:textSize="15dp"

android:text="E"/>

</LinearLayout>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="60dp"

android:orientation="horizontal">

<Button

android:id="@+id/btn6"

android:layout\_width="wrap\_content"

android:layout\_height="match\_parent"

android:layout\_marginLeft="5dp"

android:layout\_marginBottom="5dp"

android:layout\_weight="1"

android:textSize="15dp"

android:text="F"/>

<Button

android:id="@+id/btn7"

android:layout\_width="wrap\_content"

android:layout\_height="match\_parent"

android:layout\_marginLeft="5dp"

android:layout\_marginBottom="5dp"

android:layout\_weight="1"

android:textSize="15dp"

android:text="G"/>

<Button

android:id="@+id/btn8"

android:layout\_width="wrap\_content"

android:layout\_height="match\_parent"

android:layout\_marginLeft="5dp"

android:layout\_marginBottom="5dp"

android:layout\_weight="1"

android:textSize="15dp"

android:text="H"/>

<Button

android:id="@+id/btn9"

android:layout\_width="wrap\_content"

android:layout\_height="match\_parent"

android:layout\_marginLeft="5dp"

android:layout\_marginBottom="5dp"

android:layout\_weight="1"

android:textSize="15dp"

android:text="I"/>

<Button

android:id="@+id/btn10"

android:layout\_width="wrap\_content"

android:layout\_height="match\_parent"

android:layout\_marginLeft="5dp"

android:layout\_marginBottom="5dp"

android:layout\_weight="1"

android:textSize="15dp"

android:text="J"/>

</LinearLayout>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="60dp"

android:orientation="horizontal">

<Button

android:id="@+id/btn11"

android:layout\_width="wrap\_content"

android:layout\_height="match\_parent"

android:layout\_marginLeft="5dp"

android:layout\_marginBottom="5dp"

android:layout\_weight="1"

android:textSize="15dp"

android:text="K"/>

<Button

android:id="@+id/btn12"

android:layout\_width="wrap\_content"

android:layout\_height="match\_parent"

android:layout\_marginLeft="5dp"

android:layout\_marginBottom="5dp"

android:layout\_weight="1"

android:textSize="15dp"

android:text="L"/>

<Button

android:id="@+id/btn13"

android:layout\_width="wrap\_content"

android:layout\_height="match\_parent"

android:layout\_marginLeft="5dp"

android:layout\_marginBottom="5dp"

android:layout\_weight="1"

android:textSize="15dp"

android:text="M"/>

<Button

android:id="@+id/btn14"

android:layout\_width="wrap\_content"

android:layout\_height="match\_parent"

android:layout\_marginLeft="5dp"

android:layout\_marginBottom="5dp"

android:layout\_weight="1"

android:textSize="15dp"

android:text="N"/>

<Button

android:id="@+id/btn15"

android:layout\_width="wrap\_content"

android:layout\_height="match\_parent"

android:layout\_marginLeft="5dp"

android:layout\_marginBottom="5dp"

android:layout\_weight="1"

android:textSize="15dp"

android:text="O"/>

</LinearLayout>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="60dp"

android:orientation="horizontal">

<Button

android:id="@+id/btn16"

android:layout\_width="wrap\_content"

android:layout\_height="match\_parent"

android:layout\_marginLeft="5dp"

android:layout\_marginBottom="5dp"

android:layout\_weight="1"

android:textSize="15dp"

android:text="P"/>

<Button

android:id="@+id/btn17"

android:layout\_width="wrap\_content"

android:layout\_height="match\_parent"

android:layout\_marginLeft="5dp"

android:layout\_marginBottom="5dp"

android:layout\_weight="1"

android:textSize="15dp"

android:text="Q"/>

<Button

android:id="@+id/btn18"

android:layout\_width="wrap\_content"

android:layout\_height="match\_parent"

android:layout\_marginLeft="5dp"

android:layout\_marginBottom="5dp"

android:layout\_weight="1"

android:textSize="15dp"

android:text="R"/>

<Button

android:id="@+id/btn19"

android:layout\_width="wrap\_content"

android:layout\_height="match\_parent"

android:layout\_marginLeft="5dp"

android:layout\_marginBottom="5dp"

android:layout\_weight="1"

android:textSize="15dp"

android:text="S"/>

<Button

android:id="@+id/btn20"

android:layout\_width="wrap\_content"

android:layout\_height="match\_parent"

android:layout\_marginLeft="5dp"

android:layout\_marginBottom="5dp"

android:layout\_weight="1"

android:textSize="15dp"

android:text="T"/>

</LinearLayout>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="60dp"

android:orientation="horizontal">

<Button

android:id="@+id/btn21"

android:layout\_width="wrap\_content"

android:layout\_height="match\_parent"

android:layout\_marginLeft="5dp"

android:layout\_marginBottom="5dp"

android:layout\_weight="1"

android:textSize="15dp"

android:text="U"/>

<Button

android:id="@+id/btn22"

android:layout\_width="wrap\_content"

android:layout\_height="match\_parent"

android:layout\_marginLeft="5dp"

android:layout\_marginBottom="5dp"

android:layout\_weight="1"

android:textSize="15dp"

android:text="V"/>

<Button

android:id="@+id/btn23"

android:layout\_width="wrap\_content"

android:layout\_height="match\_parent"

android:layout\_marginLeft="5dp"

android:layout\_marginBottom="5dp"

android:layout\_weight="1"

android:textSize="15dp"

android:text="W"/>

<Button

android:id="@+id/btn24"

android:layout\_width="wrap\_content"

android:layout\_height="match\_parent"

android:layout\_marginLeft="5dp"

android:layout\_marginBottom="5dp"

android:layout\_weight="1"

android:textSize="15dp"

android:text="X"/>

<Button

android:id="@+id/btn25"

android:layout\_width="wrap\_content"

android:layout\_height="match\_parent"

android:layout\_marginLeft="5dp"

android:layout\_marginBottom="5dp"

android:layout\_weight="1"

android:textSize="15dp"

android:text="Y"/>

</LinearLayout>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="60dp">

<Button

android:id="@+id/btn26"

android:layout\_width="wrap\_content"

android:layout\_height="match\_parent"

android:layout\_marginLeft="5dp"

android:layout\_marginBottom="5dp"

android:text="Z"/>

</LinearLayout>

<Button

android:id="@+id/btn\_UseHint"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginTop="20dp"

android:textSize="20dp"

android:text="Use Hint"/>

</LinearLayout>

GameActivity.java

package com.nix.mdpm2\_6615;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.graphics.Color;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.TextView;

import java.util.ArrayList;

public class GameActivity extends AppCompatActivity implements View.OnClickListener {

TextView viewLife, viewSoal, viewClue;

Button useHint;

Bundle data;

Intent nextActivity;

ArrayList<Button> alphabets;

ArrayList<String> tertebak;

int life;

String soal, jawaban, hint, clue;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_game);

viewLife= findViewById(R.id.tView\_Life);

viewSoal= findViewById(R.id.tView\_Word);

viewClue= findViewById(R.id.tView\_Clue);

useHint= findViewById(R.id.btn\_UseHint);

alphabets= new ArrayList<Button>();

tertebak= new ArrayList<String>();

life= 5;

for (int i= 1; i<=26; i++) {

String id= "btn"+i;

int resID= getResources().getIdentifier(id, "id", getPackageName());

Button alphabet= findViewById(resID);

alphabet.setTextColor(Color.WHITE);

alphabet.setBackgroundColor(Color.BLUE);

alphabets.add(alphabet);

}

getBundleData();

setViewText();

if (!hint.equals("")) {

useHint.setEnabled(true);

} else {

useHint.setEnabled(false);

}

for (Button alphabet : alphabets) {

alphabet.setOnClickListener(this);

}

useHint.setOnClickListener(this);

}

@Override

public void onClick(View view) {

if (alphabets.contains((Button) view)) {

Button clicked= (Button) view;

if (benar(clicked)) {

tertebak.add(clicked.getText().toString());

clicked.setEnabled(false);

clicked.setBackgroundColor(Color.GREEN);

} else {

life--;

clicked.setEnabled(false);

clicked.setBackgroundColor(Color.RED);

}

}

if (view.getId() == R.id.btn\_UseHint) {

useHint.setEnabled(false);

char[] unsensor= soal.toCharArray();

tertebak.add(hint);

for (Button btn : alphabets) {

if (btn.getText().toString().equalsIgnoreCase(hint)) {

btn.setEnabled(false);

btn.setBackgroundColor(Color.GREEN);

for (int i= 0; i<jawaban.length(); i++) {

String check= String.valueOf(jawaban.charAt(i));

if (hint.equalsIgnoreCase(check)) {

unsensor[i]= check.charAt(0);

}

}

}

}

soal= String.valueOf(unsensor);

}

setViewText();

gameOver();

}

private void getBundleData() {

if (getIntent().getExtras() != null) {

data= getIntent().getExtras();

soal= data.getString("soal");

jawaban= data.getString("soal");

hint= data.getString("hint");

clue= data.getString("clue");

String sensor= "";

for (int i= 0; i<soal.length(); i++) {

sensor+= "\*";

}

soal= soal.replaceAll(soal, sensor);

}

}

private boolean benar(Button btn) {

boolean benar= false;

char[] unsensor= soal.toCharArray();

for (int i= 0; i<jawaban.length(); i++) {

String check= String.valueOf(jawaban.charAt(i));

if (btn.getText().toString().equalsIgnoreCase(check)) {

unsensor[i]= check.charAt(0);

benar= true;

}

}

soal= String.valueOf(unsensor);

if (benar) {

return benar;

}

return false;

}

private void gameOver() {

if (life <= 0) {

life= 0;

nextActivity= new Intent(GameActivity.this, EndActivity.class);

data= new Bundle();

data.putString("winner", "Player 1 Win");

data.putString("life", life+"");

data.putStringArrayList("tertebak", tertebak);

data.putString("jawaban", jawaban);

nextActivity.putExtras(data);

startActivity(nextActivity);

} else {

if (soal.equals(jawaban)) {

nextActivity= new Intent(GameActivity.this, EndActivity.class);

data= new Bundle();

data.putString("winner", "Player 2 Win");

data.putString("life", life+"");

data.putStringArrayList("tertebak", tertebak);

data.putString("jawaban", jawaban);

nextActivity.putExtras(data);

startActivity(nextActivity);

}

}

}

private void setViewText() {

viewLife.setText(life+"");

viewSoal.setText(soal);

viewClue.setText(clue);

}

}

activity\_end.xml

<?xml version="1.0" encoding="utf-8"?>

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:app="http://schemas.android.com/apk/res-auto"

xmlns:tools="http://schemas.android.com/tools"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

tools:context=".EndActivity">

<TextView

android:id="@+id/tView\_Winner"

android:layout\_width="match\_parent"

android:layout\_height="150dp"

android:gravity="center|bottom"

android:textSize="30dp"/>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginTop="20dp"

android:gravity="center"

android:orientation="horizontal">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:textSize="20dp"

android:text="Player 2 Remaining Life: "/>

<TextView

android:id="@+id/tView\_RemainingLife"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:textSize="20dp"/>

</LinearLayout>

<TextView

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginTop="20dp"

android:gravity="center"

android:textSize="20dp"

android:text="Letter Guessed"/>

<TextView

android:id="@+id/tView\_LetterGuessed"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginTop="20dp"

android:gravity="center"

android:textSize="20dp"/>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginTop="20dp"

android:gravity="center"

android:orientation="horizontal">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:textSize="20dp"

android:text="Correct Answer: "/>

<TextView

android:id="@+id/tView\_Answer"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:gravity="center"

android:textSize="20dp"/>

</LinearLayout>

</LinearLayout>

EndActivity.java

package com.nix.mdpm2\_6615;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.widget.TextView;

import java.util.ArrayList;

public class EndActivity extends AppCompatActivity {

TextView winnerView, lifeView, tertebakView, jawabanView;

Bundle data;

ArrayList<String> tertebak;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_end);

winnerView= findViewById(R.id.tView\_Winner);

lifeView= findViewById(R.id.tView\_RemainingLife);

tertebakView= findViewById(R.id.tView\_LetterGuessed);

jawabanView= findViewById(R.id.tView\_Answer);

tertebak= new ArrayList<String>();

if (getIntent().getExtras() != null) {

data= getIntent().getExtras();

winnerView.setText(data.getString("winner"));

lifeView.setText(data.getString("life"));

tertebak= data.getStringArrayList("tertebak");

for (String huruf : tertebak) {

tertebakView.append(huruf+", ");

}

jawabanView.setText(data.getString("jawaban"));

}

}

}