|  |  |
| --- | --- |
| Student ID | IT22341204 |
| Batch | Group - Y2.S2.WE.IT.02.01 |
| Name | K. Rangana Malmi Nadee |
| Marks |  |
| 1. Code Quality and Organization (2 Points) |  |
| 1. Functionality (4 Points) |  |
| 1. Creativity and User Interface Design (2 Points) |  |
| 1. Performance and Stability (2 Point) |  |
| Total: 10 Marks |  |
| Evaluator |  |

**Description:**

**Quizify App**Welcome to Quizify, the ultimate trivia experience that will put your knowledge to the test!

Embark on a journey through the exciting world of programming languages with Quizify, where your coding knowledge will be put to the test! Dive deep into the syntax, semantics, and quirks of various programming languages as you tackle a wide range of questions designed to challenge even the most seasoned developers.

**Features:**

**Multiple Choice Questions:** Offer players a selection of answers to choose from for each question, increasing engagement and accessibility.

**Offline and Online Play:** Enable both offline and online gameplay modes to accommodate players with or without internet access, ensuring accessibility and flexibility.

**Explore Diverse Languages:** From classics like Kotlin, Java, and C++,C,OOP to cutting-edge languages like Rust, Swift, and Go, Quizify covers a wide spectrum of programming languages, ensuring there's something for every coding enthusiast.

**Code Snippet Challenges:** Put your coding skills to the test with interactive code snippet challenges. Analyze snippets of code and identify errors, predict outputs, or fill in missing parts to complete the functionality.

**Comprehensive Categories**: Delve into different aspects of programming languages, including syntax, data structures, algorithms, object-oriented programming, functional programming, and more.

**Interactive Code Challenges:** Put your skills to the test with interactive code challenges. Analyze code snippets, debug errors, predict outputs, and complete missing sections to sharpen your coding abilities in a practical, hands-on way.

**User-Friendly Interface:** Enjoy a sleek and intuitive interface designed to enhance your gaming experience. Seamlessly navigate between questions, review your performance, and track your achievements with ease.

Get ready to sharpen your coding skills, expand your programming knowledge, and become a true master of programming languages with Quizify: The Ultimate Programming Language Challenge!"

**Instructions:**

1. **Getting Started:** Upon launching the game, you'll be greeted with the main menu where you can choose to start a new game.
2. **Selecting Categories:** Next, choose the categories you'd like to include in the quiz. You can select from a variety of topics such as C,C++,Java, OOP, Kotlin.
3. **Answering Questions**: Once the game begins, you'll be presented with a series of multiple-choice questions. Read each question carefully and select the answer you believe is correct.
4. **Scoring:** Earn points for each correct answer. Incorrect answers do not deduct points, so don't hesitate to make a guess if you're unsure!
5. **Game Over:** The game ends when the time runs out.
6. **Viewing Results:** After the game concludes, you'll have the opportunity to review your performance. See how many questions you answered correctly and your total score. If you get more than or equal 60% you can pass the Quiz
7. **Starting a New Game:** Ready for another round? Simply start a new game from the main menu and choose your desired settings to begin another exciting quiz.
8. **Exiting the Game:** When you're finished playing, you can exit the game.

 **Requirements**:

**1. Layouts**: Used

2. **Activities**: Used

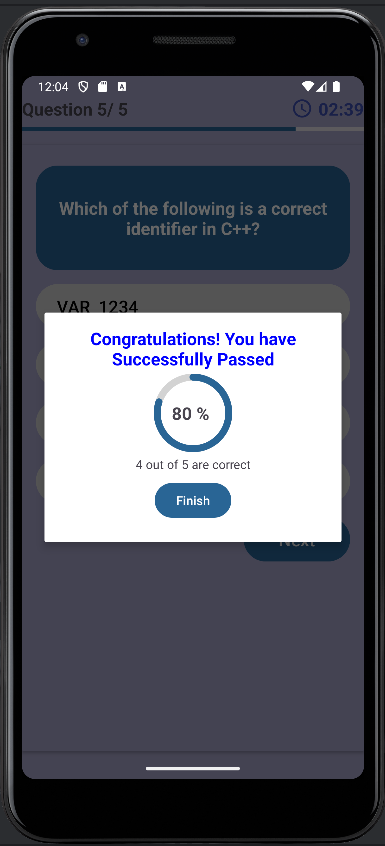
3. **ViewModel**: Used in the timer, when the mobile phone rotates, the timer does not restart; the remaining time does not change."

4. **Intents**: Used

5. **Shared Preferences/Local Storage**: Firebase used to store question models

**Screenshots:**

A screenshot of a phone

Description automatically generatedA screenshot of a cell phone

Description automatically generatedA screenshot of a computer

Description automatically generated

When the mobile phone rotates, the timer does not restart.

A screenshot of a phone

Description automatically generatedA screenshot of a phone

Description automatically generated

**MainActivity**  
package com.example.quizgame

import android.os.Bundle

import android.view.View

import androidx.activity.enableEdgeToEdge

import androidx.appcompat.app.AppCompatActivity

import androidx.core.view.ViewCompat

import androidx.core.view.WindowInsetsCompat

import androidx.recyclerview.widget.LinearLayoutManager

import com.example.quizgame.databinding.ActivityMainBinding

import com.google.firebase.database.FirebaseDatabase

class MainActivity : AppCompatActivity() {

private lateinit var binding:ActivityMainBinding

private lateinit var quizModelList: MutableList<QuizModel>

private lateinit var adapter: QuizListAdapter

override fun onCreate(savedInstanceState: Bundle?) {

super.onCreate(savedInstanceState)

enableEdgeToEdge()

binding = ActivityMainBinding.inflate(layoutInflater)

setContentView(binding.root)

quizModelList = mutableListOf()

getData()

setRecyclerView()

ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main)) { v, insets ->

val systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars())

v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom)

insets

}

}

private fun setRecyclerView(){

binding.progressBar.visibility = View.GONE //once get data progress bar hide

adapter = QuizListAdapter(quizModelList)

binding.recyclerView.layoutManager = LinearLayoutManager(this)

binding.recyclerView.adapter = adapter

}

private fun getData(){

binding.progressBar.visibility = View.VISIBLE //show the progress bar

FirebaseDatabase.getInstance().reference

.get() //return all list of quiz model

.addOnSuccessListener {dataSnapshot ->

if(dataSnapshot.exists()){

for(snapshot in dataSnapshot.children){

val quizModel = snapshot.getValue(QuizModel::class.java) //convert data to quiz model

if (quizModel != null) {

quizModelList.add(quizModel)

} //add quiz models to quiz model list

}

}

setRecyclerView() //will automatically send quiz model to adapter

}

}

}

**QuestionActivity**

package com.example.quizgame

import android.annotation.SuppressLint

import android.graphics.Color

import android.os.Bundle

import android.util.Log

import android.view.View

import android.widget.Button

import android.widget.Toast

import androidx.activity.enableEdgeToEdge

import androidx.appcompat.app.AlertDialog

import androidx.appcompat.app.AppCompatActivity

import androidx.core.view.ViewCompat

import androidx.core.view.WindowInsetsCompat

import androidx.lifecycle.Observer

import androidx.lifecycle.ViewModelProvider

import com.example.quizgame.databinding.ActivityQuestionBinding

import com.example.quizgame.databinding.ScoreDialogBinding

class QuestionActivity : AppCompatActivity(), View.OnClickListener {

companion object{

var questionModelList : List<QuestionModel> = listOf()

var time: String = ""

}

private lateinit var binding: ActivityQuestionBinding

private var currentQuestionIndex = 0

private var selectAnswer = ""

private var score = 0

private lateinit var timerViewModel: TimerViewModel

override fun onCreate(savedInstanceState: Bundle?) {

super.onCreate(savedInstanceState)

enableEdgeToEdge()

binding = ActivityQuestionBinding.inflate(layoutInflater)

setContentView(binding.root)

timerViewModel = ViewModelProvider(this)[TimerViewModel::class.java]

timerViewModel.countdownText.observe(this, Observer { countdownText ->

binding.timerIndicate.text = countdownText

})

// Initialize ViewModel only if savedInstanceState is null

if (savedInstanceState == null) {

timerViewModel = ViewModelProvider(this).get(TimerViewModel::class.java)

timerViewModel.startTimer()

} else {

// If savedInstanceState is not null, restore the ViewModel instance

timerViewModel = ViewModelProvider(this).get(TimerViewModel::class.java)

}

// Observe countdown text

timerViewModel.countdownText.observe(this, Observer { countdownText ->

binding.timerIndicate.text = countdownText

if (countdownText == "00:00") {

finishTime()

}

}   
)

//set onclick listener to the buttons

binding.apply {

answerBtn1.setOnClickListener(this@QuestionActivity)

answerBtn2.setOnClickListener(this@QuestionActivity)

answerBtn3.setOnClickListener(this@QuestionActivity)

answerBtn4.setOnClickListener(this@QuestionActivity)

next.setOnClickListener(this@QuestionActivity)

}

loadQuestion()

ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main)) { v, insets ->

val systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars())

v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom)

insets

}

}

// to test question model list

@SuppressLint("SetTextI18n")

private fun loadQuestion(){

selectAnswer = ""

if(currentQuestionIndex == questionModelList.size){

finishQuiz()

return

}

binding.apply {

questionIndicate.text = "Question ${currentQuestionIndex + 1 }/ ${questionModelList.size}"

progressIndicate.progress = (currentQuestionIndex.toFloat() / questionModelList.size.toFloat() \* 100).toInt()

questionCard.text = questionModelList[currentQuestionIndex].question

answerBtn1.text = questionModelList[currentQuestionIndex].options[0]

answerBtn2.text = questionModelList[currentQuestionIndex].options[1]

answerBtn3.text = questionModelList[currentQuestionIndex].options[2]

answerBtn4.text = questionModelList[currentQuestionIndex].options[3]

}

}

override fun onSaveInstanceState(outState: Bundle) {

super.onSaveInstanceState(outState)

// Save necessary data to handle configuration changes

outState.putInt("currentQuestionIndex", currentQuestionIndex)

outState.putInt("score", score)

outState.putString("selectAnswer", selectAnswer)

}

override fun onRestoreInstanceState(savedInstanceState: Bundle) {

super.onRestoreInstanceState(savedInstanceState)

// Restore necessary data after configuration changes

currentQuestionIndex = savedInstanceState.getInt("currentQuestionIndex")

score = savedInstanceState.getInt("score")

selectAnswer = savedInstanceState.getString("selectAnswer") ?: ""

}

override fun onClick(view: View?) {

binding.apply {

answerBtn1.setBackgroundColor(getColor(R.color.grey))

answerBtn2.setBackgroundColor(getColor(R.color.grey))

answerBtn3.setBackgroundColor(getColor(R.color.grey))

answerBtn4.setBackgroundColor(getColor(R.color.grey))

}

val clickButton = view as Button

if(clickButton.id == R.id.next){

//next button clicked

if(selectAnswer.isEmpty()){ //if not select answer can't continue game

Toast.makeText(applicationContext,"Please Select Answer to Continue",Toast.LENGTH\_SHORT).show()

return

}

if(selectAnswer == questionModelList[currentQuestionIndex].correct){

score++

Log.i("Score of Quiz", score.toString())

}

currentQuestionIndex++

loadQuestion()

}else{

//option button clicked

selectAnswer = clickButton.text.toString()

clickButton.setBackgroundColor(getColor(R.color.light\_blue2))

}

}

@SuppressLint("SetTextI18n")

private fun finishQuiz(){

val totalQuestions = questionModelList.size

val percentage = ((score.toFloat() / totalQuestions.toFloat()) \* 100 ).toInt()

val dialogBinding = ScoreDialogBinding.inflate(layoutInflater)

dialogBinding.apply {

scoreProgressIndicate.progress = percentage

scoreProgress.text = "$percentage % "

if(percentage >= 60){

scoreTitle.text = "Congratulations! You have Successfully Passed"

scoreTitle.setTextColor(Color.BLUE)

}else{

scoreTitle.text = "Sorry,You have Failed, Keep trying Better luck next time!"

scoreTitle.setTextColor(Color.RED)

}

scoreSubtitle.text = "$score out of $totalQuestions are correct"

finishButton.setOnClickListener{

finish()

}

}

AlertDialog.Builder(this)

.setView(dialogBinding.root)

.setCancelable(false)

.show()

}

@SuppressLint("SetTextI18n")

private fun finishTime(){

val totalQuestions = questionModelList.size

val percentage = ((score.toFloat() / totalQuestions.toFloat()) \* 100 ).toInt()

val dialogBinding = ScoreDialogBinding.inflate(layoutInflater)

dialogBinding.apply {

scoreProgressIndicate.progress = percentage

scoreProgress.text = "$percentage % "

if(percentage >= 60){

scoreTitle.text = "Time Over! but You have Successfully Passed"

scoreTitle.setTextColor(Color.BLUE)

}else{

scoreTitle.text = "Time Over! Sorry,You have Failed, Keep trying Better luck next time!"

scoreTitle.setTextColor(Color.RED)

}

scoreSubtitle.text = "$score out of $totalQuestions are correct"

finishButton.setOnClickListener{

finish()

}

}

AlertDialog.Builder(this)

.setView(dialogBinding.root)

.setCancelable(false)

.show()

}

}

**QuizListAdapter**

package com.example.quizgame

import android.annotation.SuppressLint

import android.content.Intent

import android.view.LayoutInflater

import android.view.ViewGroup

import androidx.recyclerview.widget.RecyclerView

import com.example.quizgame.databinding.ItemBinding

class QuizListAdapter(private val quizModelList: List<QuizModel>) :

RecyclerView.Adapter<QuizListAdapter.MyViewHolder>() {

class MyViewHolder(private val binding: ItemBinding ):RecyclerView.ViewHolder(binding.root){

@SuppressLint("SetTextI18n")

fun bind(model : QuizModel){

//bind all the views

binding.apply {

title.text = model.title

subtitle.text = model.subtitle

time.text = model.time + "min"

root.setOnClickListener{

val intent = Intent(root.context, QuestionActivity::class.java)

//assign quiz to related button

QuestionActivity.questionModelList = model.questionList

QuestionActivity.time = model.time

root.context.startActivity(intent)

}

}

}

}

override fun onCreateViewHolder(parent: ViewGroup, viewType: Int): MyViewHolder {

val binding = ItemBinding.inflate(LayoutInflater.from(parent.context),parent,false)

return MyViewHolder(binding)

}

override fun getItemCount(): Int {

return quizModelList.size

}

override fun onBindViewHolder(holder: MyViewHolder, position: Int) {

holder.bind(quizModelList[position])

}

}

**QuizModel**  
package com.example.quizgame

data class QuizModel(

val id: String,

val title: String,

val subtitle: String,

val time: String,

val questionList : List<QuestionModel> ){

constructor(): this("","","","", emptyList())

}

data class QuestionModel(

val question : String,

val options : List<String>,

val correct :String )

{

constructor() : this("", emptyList(),"")

}

**TimeModel**  
package com.example.quizgame

import android.os.CountDownTimer

import androidx.lifecycle.LiveData

import androidx.lifecycle.MutableLiveData

import androidx.lifecycle.ViewModel

class TimerViewModel : ViewModel() {

private var countDownTimer: CountDownTimer? = null

private val \_countdownText = MutableLiveData<String>()

val countdownText : LiveData<String> = \_countdownText

fun startTimer() {

val totalTimeInMills = QuestionActivity.time.toInt() \* 60 \* 1000L

countDownTimer = object: CountDownTimer(totalTimeInMills,1000){

override fun onTick(millisUntilFinished: Long) {

val seconds = millisUntilFinished / 1000

val minutes = seconds / 60

val remainingSeconds = seconds % 60

val formattedTime = String.format("%02d:%02d", minutes, remainingSeconds)

\_countdownText.value = formattedTime

}

override fun onFinish() {

\_countdownText.value = "00:00"

}

}.start()

}

override fun onCleared() {

super.onCleared()

countDownTimer?.cancel() // Cancel timer on ViewModel cleared

}

}

**AndroidManifest.xml**

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

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

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

<application

android:allowBackup="true"

android:dataExtractionRules="@xml/data\_extraction\_rules"

android:fullBackupContent="@xml/backup\_rules"

android:icon="@mipmap/ic\_launcher"

android:label="@string/app\_name"

android:roundIcon="@mipmap/ic\_launcher\_round"

android:supportsRtl="true"

android:theme="@style/Theme.QuizGame"

tools:targetApi="31">

<activity

android:name=".QuestionActivity"

android:exported="false"/>

<activity

android:name=".MainActivity"

android:exported="true"

android:configChanges="orientation|screenSize">

<intent-filter>

<action android:name="android.intent.action.MAIN" />

<category android:name="android.intent.category.LAUNCHER" />

</intent-filter>

</activity>

</application>

</manifest>

**Layouts  
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:id="@+id/main"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

android:padding="16dp"

android:background="@color/light\_blue"

tools:context=".MainActivity">

<ImageView

android:layout\_width="match\_parent"

android:layout\_height="160dp"

android:src="@drawable/studying"

android:contentDescription="@string/image" />

<LinearLayout

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginTop="16dp"

android:background="@drawable/round\_corner"

android:backgroundTint="@color/dark\_blue"

android:orientation="vertical"

android:padding="4dp">

<TextView

android:layout\_width="322dp"

android:layout\_height="wrap\_content"

android:gravity="center"

android:letterSpacing="0.1"

android:text="@string/quizify\_app"

android:textColor="@color/white"

android:textSize="34sp"

android:textStyle="bold" />

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_margin="16dp"

android:gravity="center"

android:text="@string/app\_description"

android:textColor="@color/white"

android:textSize="20sp"

android:textStyle="italic" />

</LinearLayout>

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="@string/all\_items"

android:layout\_marginTop="16dp"

android:layout\_marginStart="4dp"

android:textSize="20sp"

android:textStyle="bold"/>

<RelativeLayout

android:layout\_width="match\_parent"

android:layout\_height="match\_parent">

<ProgressBar

android:id="@+id/progress\_bar"

android:layout\_width="20dp"

android:layout\_height="20dp"

android:visibility="gone"

android:layout\_centerInParent="true"/>

<androidx.recyclerview.widget.RecyclerView

android:id="@+id/recycler\_view"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginTop="16dp" />

</RelativeLayout>

</LinearLayout>

**activity\_main.xml(land)**

<?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:id="@+id/main"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:background="@color/light\_blue"

android:orientation="vertical"

android:padding="16dp"

tools:context=".MainActivity">

<ImageView

android:layout\_width="match\_parent"

android:layout\_height="62dp"

android:contentDescription="@string/image"

android:src="@drawable/studying" />

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:background="@drawable/round\_corner"

android:backgroundTint="@color/dark\_blue"

android:orientation="vertical"

android:padding="4dp">

<TextView

android:layout\_width="match\_parent"

android:layout\_height="44dp"

android:gravity="center"

android:letterSpacing="0.1"

android:text="@string/quizify\_app"

android:textColor="@color/white"

android:textSize="24sp"

android:textStyle="bold" />

<TextView

android:layout\_width="match\_parent"

android:layout\_height="30dp"

android:layout\_margin="10dp"

android:gravity="center"

android:text="@string/app\_description"

android:textColor="@color/white"

android:textSize="18sp"

android:textStyle="italic" />

</LinearLayout>

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginStart="4dp"

android:layout\_marginTop="16dp"

android:text="@string/all\_items"

android:textSize="20sp"

android:textStyle="bold" />

<RelativeLayout

android:layout\_width="match\_parent"

android:layout\_height="match\_parent">

<ProgressBar

android:id="@+id/progress\_bar"

android:layout\_width="20dp"

android:layout\_height="20dp"

android:layout\_centerInParent="true"

android:visibility="gone" />

<androidx.recyclerview.widget.RecyclerView

android:id="@+id/recycler\_view"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_alignParentTop="true"

android:layout\_marginTop="-9dp" />

</RelativeLayout>

</LinearLayout>

**activity\_question.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:id="@+id/main"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

android:padding="16dp"

android:background="@color/light\_blue"

tools:context=".QuestionActivity">

<RelativeLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content">

<TextView

android:id="@+id/question\_indicate"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

tools:text ="Question 6/10"

android:textSize="20sp"

android:textStyle="bold"

android:layout\_centerVertical="true"/>

<ImageView

android:layout\_width="25dp"

android:layout\_height="25dp"

android:src="@drawable/timer\_icon"

app:tint="@color/dark\_blue"

android:layout\_marginEnd="6dp"

android:layout\_toStartOf="@id/timer\_indicate"

android:layout\_centerVertical="true"/>

<TextView

android:id="@+id/timer\_indicate"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

tools:text ="0.46"

android:textSize="20sp"

android:textStyle="bold"

android:textColor="@color/dark\_blue"

android:layout\_alignParentEnd="true"

android:layout\_centerVertical="true"/>

</RelativeLayout>

<com.google.android.material.progressindicator.LinearProgressIndicator

android:id="@+id/progress\_indicate"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginVertical="8dp"

tools:progress="60" />

<androidx.cardview.widget.CardView

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:layout\_marginVertical="8dp"

android:backgroundTint="@color/light\_blue"

android:elevation="4dp">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="vertical"

android:padding="16dp">

<TextView

android:id="@+id/question\_card"

android:layout\_width="match\_parent"

android:layout\_height="120dp"

tools:text="What is Android OS?"

android:textStyle="bold"

android:textSize="20sp"

android:background="@drawable/round\_corner"

android:textColor="@color/white"

android:backgroundTint="@color/blue"

android:padding="8dp"

android:layout\_marginVertical="8dp"

android:gravity="center"/>

<Button

android:id="@+id/answer\_btn1"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginVertical="4dp"

android:backgroundTint="@color/grey"

tools:text="Answer A"

android:textColor="@color/black"

android:paddingVertical="12dp"

android:textSize="20sp"

android:gravity="center\_vertical"/>

<Button

android:id="@+id/answer\_btn2"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginVertical="4dp"

android:backgroundTint="@color/grey"

tools:text="Answer B"

android:textColor="@color/black"

android:paddingVertical="12dp"

android:textSize="20sp"

android:gravity="center\_vertical"/>

<Button

android:id="@+id/answer\_btn3"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginVertical="4dp"

android:backgroundTint="@color/grey"

tools:text="Answer C"

android:textColor="@color/black"

android:paddingVertical="12dp"

android:textSize="20sp"

android:gravity="center\_vertical"/>

<Button

android:id="@+id/answer\_btn4"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginVertical="4dp"

android:backgroundTint="@color/grey"

tools:text="Answer D"

android:textColor="@color/black"

android:paddingVertical="12dp"

android:textSize="20sp"

android:gravity="center\_vertical"/>

<Button

android:id="@+id/next"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginVertical="4dp"

android:backgroundTint="@color/blue"

android:text="@string/next"

android:textColor="@color/white"

android:paddingVertical="12dp"

android:layout\_gravity="end"

android:textSize="20sp"

android:paddingHorizontal="40dp"

android:gravity="center\_vertical"/>

</LinearLayout>

</androidx.cardview.widget.CardView>

</LinearLayout>

**activity\_question.xml(land)**<?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:id="@+id/main"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

android:background="@color/light\_blue"

android:padding="16dp"

tools:context=".QuestionActivity">

<RelativeLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content">

<TextView

android:id="@+id/question\_indicate"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_centerVertical="true"

android:textSize="20sp"

android:textStyle="bold"

tools:text="Question 6/10" />

<ImageView

android:layout\_width="25dp"

android:layout\_height="25dp"

android:layout\_centerVertical="true"

android:layout\_marginEnd="8dp"

android:layout\_toStartOf="@id/timer\_indicate"

android:src="@drawable/timer\_icon"

app:tint="@color/dark\_blue"

android:contentDescription="@string/time" />

<TextView

android:id="@+id/timer\_indicate"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentEnd="true"

android:layout\_centerVertical="true"

android:textColor="@color/dark\_blue"

android:textSize="20sp"

android:textStyle="bold"

tools:text="0.46" />

</RelativeLayout>

<com.google.android.material.progressindicator.LinearProgressIndicator

android:id="@+id/progress\_indicate"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

tools:progress="60" />

<androidx.cardview.widget.CardView

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:elevation="4dp"

android:backgroundTint="@color/light\_blue">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="vertical"

android:padding="10dp">

<TextView

android:id="@+id/question\_card"

android:layout\_width="750dp"

android:layout\_height="60dp"

android:background="@drawable/round\_corner"

android:backgroundTint="@color/blue"

android:gravity="center"

android:padding="4dp"

android:textColor="@color/white"

android:textSize="18sp"

android:textStyle="bold"

tools:text="What is Android OS?" />

<Button

android:id="@+id/answer\_btn1"

android:layout\_width="750dp"

android:layout\_height="40dp"

android:backgroundTint="@color/grey"

android:gravity="center\_vertical"

android:textColor="@color/black"

android:textSize="16sp"

tools:text="Answer A" />

<Button

android:id="@+id/answer\_btn2"

android:layout\_width="750dp"

android:layout\_height="40dp"

android:backgroundTint="@color/grey"

android:gravity="center\_vertical"

android:textColor="@color/black"

android:textSize="16sp"

tools:text="Answer B" />

<Button

android:id="@+id/answer\_btn3"

android:layout\_width="750dp"

android:layout\_height="40dp"

android:backgroundTint="@color/grey"

android:gravity="center\_vertical"

android:textColor="@color/black"

android:textSize="16sp"

tools:text="Answer C" />

<Button

android:id="@+id/answer\_btn4"

android:layout\_width="750dp"

android:layout\_height="40dp"

android:backgroundTint="@color/grey"

android:gravity="center\_vertical"

android:textColor="@color/black"

android:textSize="16sp"

tools:text="Answer D" />

<Button

android:id="@+id/next"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_gravity="end"

android:layout\_marginVertical="4dp"

android:backgroundTint="@color/blue"

android:gravity="center\_vertical"

android:paddingHorizontal="40dp"

android:text="@string/next"

android:textColor="@color/white"

android:textSize="16sp" />

</LinearLayout>

</androidx.cardview.widget.CardView>

</LinearLayout>

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

<androidx.cardview.widget.CardView xmlns:android="http://schemas.android.com/apk/res/android"

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

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_margin="4dp"

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

android:elevation="10dp"

app:cardCornerRadius="24dp">

<RelativeLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:padding="16dp">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_centerVertical="true"

android:orientation="vertical">

<TextView

android:id="@+id/title"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

tools:text ="Android"

android:textSize="20sp"

android:textStyle="bold"/>

<TextView

android:id="@+id/subtitle"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

tools:text ="All About Android OS"

android:layout\_marginTop="4dp" />

</LinearLayout>

<LinearLayout

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentEnd="true"

android:layout\_centerVertical="true"

android:gravity="center"

android:orientation="vertical"

tools:ignore="RelativeOverlap,UseCompoundDrawables">

<ImageView

android:layout\_width="32dp"

android:layout\_height="32dp"

android:src="@drawable/timer\_icon"

app:tint="@color/dark\_blue"

android:contentDescription="@string/quiz\_time" />

<TextView

android:id="@+id/time"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="@string/\_1\_min"/>

</LinearLayout>

</RelativeLayout>

</androidx.cardview.widget.CardView>

**score\_dialog.xml**  
<?xml version="1.0" encoding="utf-8"?>

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

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

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

android:orientation="vertical"

android:gravity="center"

android:padding="16dp"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content">

<TextView

android:id="@+id/score\_title"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

tools:text = "Congratulations! You have Successfully Passed"

android:gravity="center"

android:textSize="20sp"

android:textStyle="bold" />

<RelativeLayout

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content">

<com.google.android.material.progressindicator.CircularProgressIndicator

android:id="@+id/score\_progress\_indicate"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_centerVertical="true"

app:trackColor="@color/grey"

tools:progress="60"

app:trackCornerRadius="20dp"

app:trackThickness="8dp"

app:indicatorSize="90dp"/>

<TextView

android:id="@+id/score\_progress"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

tools:text="50%"

android:textSize="20sp"

android:layout\_centerInParent="true"

android:textStyle="bold"/>

</RelativeLayout>

<TextView

android:id="@+id/score\_subtitle"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

tools:text="6 out of questions are correct"

android:gravity="center" />

<Button

android:id="@+id/finish\_button"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="@string/finish"

android:layout\_margin="8dp"/>

</LinearLayout>

**Values**

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

<resources>

<color name="black">#FF000000</color>

<color name="white">#FFFFFFFF</color>

<color name="grey">#d3d3d3 </color>

<color name="blue">#296595</color>

<color name="dark\_blue">#3F51B5</color>

<color name="light\_blue">#aaa7cc</color>

<color name="light\_blue2">#6096BC</color>

</resources>

**strings.xml**  
  
<resources>

<string name="app\_name">QuizGame</string>

<string name="quizify\_app">Quizify App</string>

<string name="app\_description">Challenge Your Mind, Quizify Your World</string>

<string name="image">image</string>

<string name="all\_items">All Items</string>

<string name="\_1\_min">1 min</string>

<string name="quiz\_time">Quiz Time</string>

<string name="next">Next</string>

<string name="finish">Finish</string>

<string name="time">time</string>

<string name="back">Back</string>

</resources>