

National University of Computer and Emerging Sciences



Software for Mobile Devices

Spring 2025

Assignment 1

Instructions:

- You are required to do this assignment **individually**.
- You must do this assignment using Android Studio with Java and XML language. **No template should be used.**
- Please properly comment on your code.
- It is highly preferable that you code as per Android and Java styling guide. However, it won't affect the marking criteria.
- Submit this assignment on Google Classroom before the deadline.
- Create a Git repository for your project and share the repository link as your submission.

Assignment: MCQ-Based Quiz App in Android (Java):

Objective:

Create a fully functional **MCQ-based Quiz App** in **Android (Java)** that demonstrates the use of:

- **Splash Screen with Animations**
- **Activities & Navigation**
- **Explicit & Implicit Intents**

Assignment Requirements:

1. Splash Screen with Animations

- Create a **Splash Screen** that appears when the app is launched.
- Add **animations** (e.g., fading, scaling, or translating the logo).
- After **2-3 seconds**, navigate to the **Main Quiz Screen** automatically.

2. Quiz Interface (MainActivity & QuizActivity)

MainActivity (Start Screen)

- Displays a **text field** for entering the **user's name**.
- A **"Start Quiz"** button navigates to **QuizActivity (Explicit Intent)**.

QuizActivity (MCQ Screen)

- Shows **one MCQ at a time** with four answer options.
- Includes **two buttons: "Previous" & "Next"**

- **Next Button:** Moves to the next question.
- **Previous Button:** Moves to the previous question (disabled on the first question).
- Implements **score tracking** and shows the final result after the last question.

3. Explicit Intent

- When the **quiz starts**, navigate from **MainActivity** → **QuizActivity** (**Explicit Intent**).
- Pass the **user's name** to **QuizActivity** using an **Intent Extra**.

4. Implicit Intent

- After the quiz ends, navigate to **ResultActivity** (**Explicit Intent**).
- Add a "**Share Score**" button that uses an **Implicit Intent** to share the result via **WhatsApp, Gmail, etc.**

5. Design

Splash Screen:



Start Screen:

QUIZ
Khelo

Enter your name

John Deh...

Start

Quiz Screens:

< Previous7/10

In what year did the United States host the FIFA World Cup for the first time?

1986☐

1994☒

2002☐

2010☐

Next

< Previous10/10

In what year did the United States host the FIFA World Cup for the first time?

1986☐

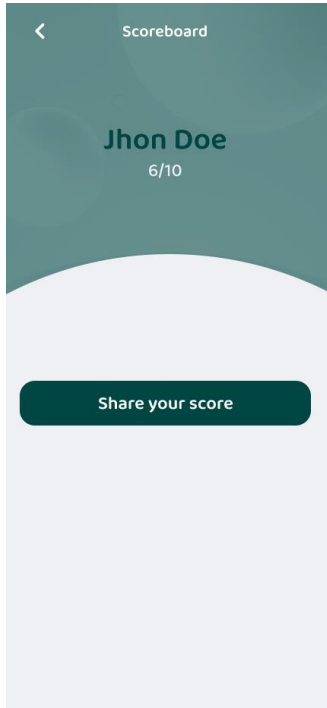
1994☒

2002☐

2010☐

Finish

Result Screen:



Additional Instructions

- **Consistency:** Maintain design consistency across all screens in terms of color, fonts, and spacing etc
- **Usability:** Ensure that all interactive elements (buttons, forms) are user-friendly and clearly labeled.
- **Testing:** Test the navigation flow between screens to ensure it functions as described.
- The logo and the Background used in the design is given.