Android Developer Nanodegree

Project 7: Capstone, Stage 1 by Marcin P. Gruszecki

Description

Intended User

<u>Features</u>

User Interface Mocks

Screen 1

Screen 2

Screen 3

Screen 4

Key Considerations

How will your app handle data persistence?

Describe any corner cases in the UX.

Describe any libraries you'll be using and share your reasoning for including them.

Next Steps: Required Tasks

Task 1: Project Setup

Task 2: Provide View

Task 3: Provide Data

Task 4: Provide Model

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EuroQuiz

Description

The application is a quiz about European Union countries and their demographic data. Users answer 20 multiple-choice questions.

Intended User

The target user is 20+ years old English-speaking student.

Features

The application:

- Obtains statistical data from INQStats API and converts them into random question
- Assigns points for each correct answer on the basis: "the faster answer, the bigger gain"

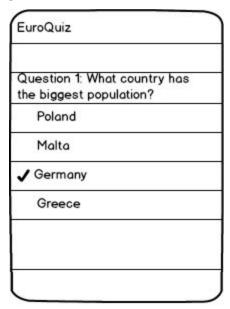
User Interface Mocks

Screen 1

Question Categories:	
Population	
Crime Rate	
✓ Population	
Area	

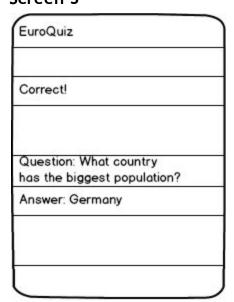
Screen Type 1 allows to choose the next question category (a subject of knowledge).

Screen 2



Screen Type 2 displays multiple-choice question out of the category selected on the previous screen.

Screen 3



Screen Type 3 provides the answer for the question displayed on the previous screen.

Next Screens Type 1, 2 and 3 are repeated up to 20 times. Finally,

Screen 4



Screen Type 4 displays the total score.

Key Considerations

How will your app handle data persistence?

Statistical data will be stored in SQLite database and accessed via Content Provider. Short duration, periodical, incremental updates will be performed using IntentService.

Describe any corner cases in the UX.

If user press "Back" button, the application asks using Alert Dialog if s/he wishes to cancel the quiz.

Describe any libraries you'll be using and share your reasoning for including them.

The application will use Google Play Services: Admob (to display test ads) and Analytics (to study user decisions).

Next Steps: Required Tasks

Task 1: Project Setup

- Create project using Android Studio
- Generate INQStats API Key
- Set Up a Firebase Cloud Messaging Client
- Configure Google Services Gradle Plugin

Task 2: Provide View

- Build UI for Screen1
- Build UI for Screen2
- Build UI for Screen3
- Build UI for Screen4
- Build widget with the best score (like Screen4)

Task 3: Provide Data

- Fill SQLite database with the initial data
- Build IntentService that access once a month INQStats API for future updates
- Handle data errors

Task 4: Provide Model

- Build navigation between the screens
- Build question generator
- Implement Google Play Services for Admob
- Implement Google Play Services for Analytics