IQ Bar Surfer

SRS

Your Ultimate IQ Tester

Android Studio / Java / Project

JO22ICT510045 / 200205200375

D.T.N.Bryan Fernando

30/06/2023

Content

Summary

This app is created mainly for my VTA 3rd Semester android studio project and to check your IQ test based on a random publicly used set of questions. These questions are IQ based questions which are taken from an AI tool which can be answered by any one in this world who speaks English.

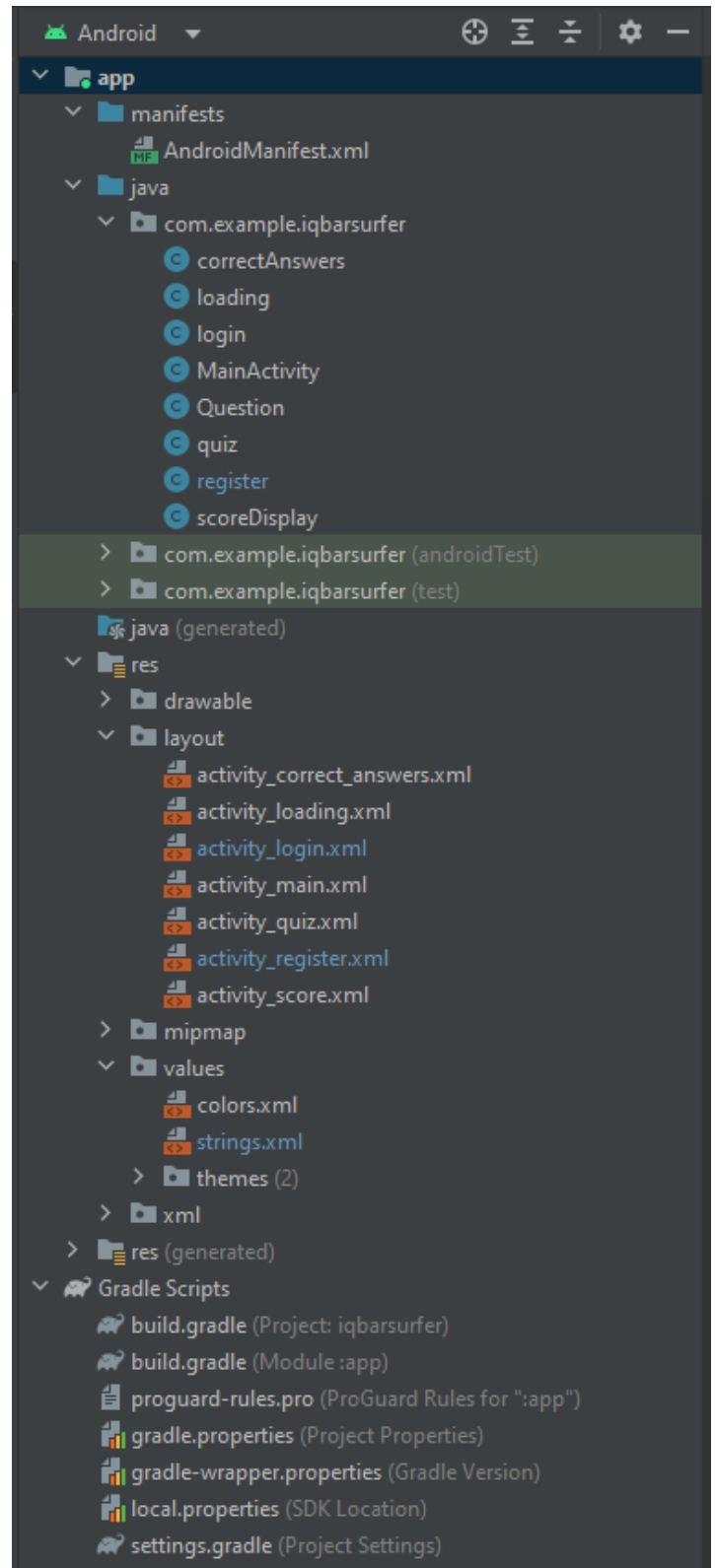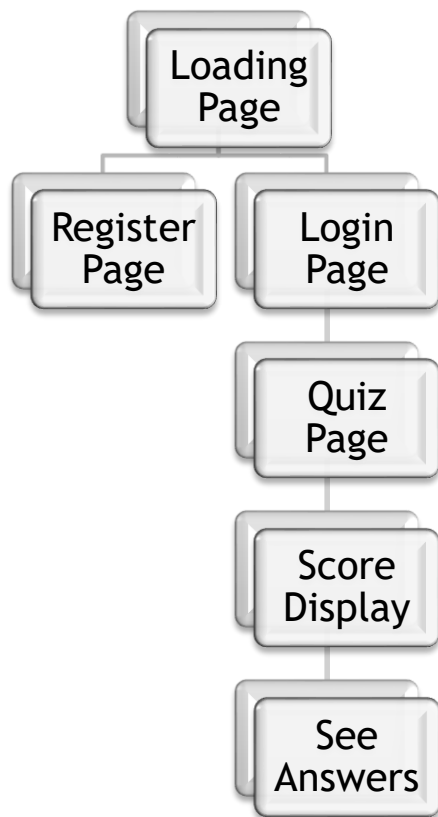There are 10 questions in this first version release.

The IQ test app is designed to assess and measure a person's intelligence quotient (IQ). It offers a series of carefully crafted questions and challenges that test various cognitive abilities, such as logical reasoning, problem-solving, pattern recognition, mathematical skills, and verbal comprehension. The app provides a user-friendly interface and a timed format to simulate real IQ tests.

It's important to note that while IQ test apps can provide a fun and engaging way to challenge oneself and gain insights into cognitive abilities, they should not be considered as the sole determinant of a person's intelligence. IQ tests have their limitations and may not capture the entirety of human intelligence, which is a complex and multifaceted trait.

The Logo is the app developer's preference. He wanted it to be eye catching so deciding to generate an AI image of a girl studying. Dark themed was his preference so it was a wooden black wallpaper for the background with white text. The button colors were decided if its green for forward yes commands like buttons and back negative commands red samples. Neutral colors were blue samples.

The database used for this app is Firebase. It is a cloud database used mostly for Android Projects. It is free efficient and effective database for android studio and it is very simple to use. Everything from the code to how to deploy is in their website guidelines.
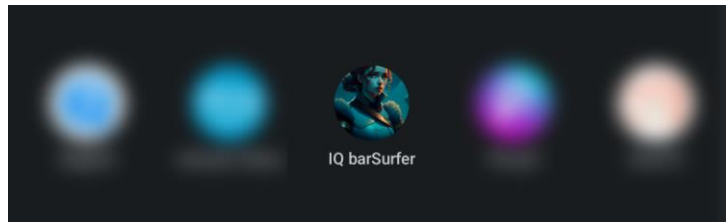
Hierarchy of the App

Loading Page

Register Page

Login Page

Quiz Page

Score Display

See Answers

Android ▼

- **app**
  - manifests
    - AndroidManifest.xml
  - java
    - com.example.iqbarsurfer
      - correctAnswers
      - loading
      - login
      - MainActivity
      - Question
      - quiz
      - register
      - scoreDisplay
    - com.example.iqbarsurfer (androidTest)
    - com.example.iqbarsurfer (test)
  - java (generated)
  - res
    - drawable
    - layout
      - activity_correct_answers.xml
      - activity_loading.xml
      - activity_login.xml
      - activity_main.xml
      - activity_quiz.xml
      - activity_register.xml
      - activity_score.xml
    - mipmap
    - values
      - colors.xml
      - strings.xml
      - themes (2)
    - xml
  - res (generated)
  - Gradle Scripts
    - build.gradle (Project: iqbarsurfer)
    - build.gradle (Module :app)
    - proguard-rules.pro (ProGuard Rules for ":app")
    - gradle.properties (Project Properties)
    - gradle-wrapper.properties (Gradle Version)
    - local.properties (SDK Location)
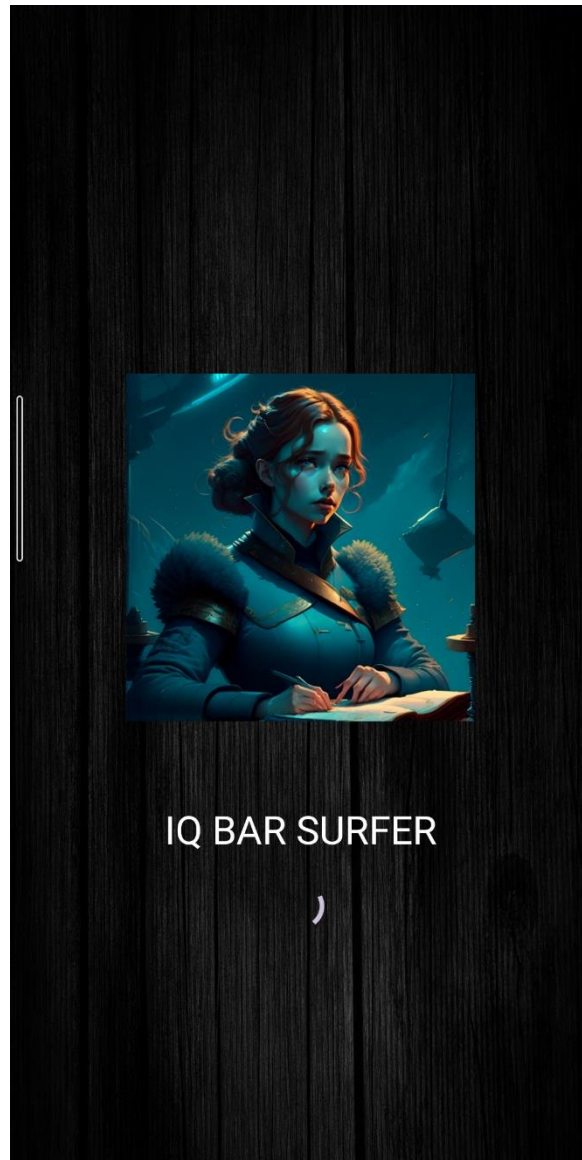   - settings.gradle (Project Settings)

System Requirements

- Minimum Android Version: Android 5.0 (Lollipop) or later

- Screen Size and Resolution: Optimized for various screen sizes and densities

- Memory (RAM): 1 GB or higher

- Processor (CPU): Compatible with ARM, ARM64, x86, or x86_64 architectures

- Storage Space: Efficient usage of device storage

- Connectivity: Requires internet connectivity for downloading new quizzes and submitting scores

- Permissions: Access to network and storage

- Upon launching the Quiz App, users are greeted with a user-friendly interface, displaying the app's logo and a welcome message.

- The main screen provides options for starting a quiz, accessing settings, and viewing previous scores.

- The questions are displayed along with corresponding answer options. The user selects their answer by tapping on the appropriate choice.

Loading Page

Login Page

IQ BAR SURFER
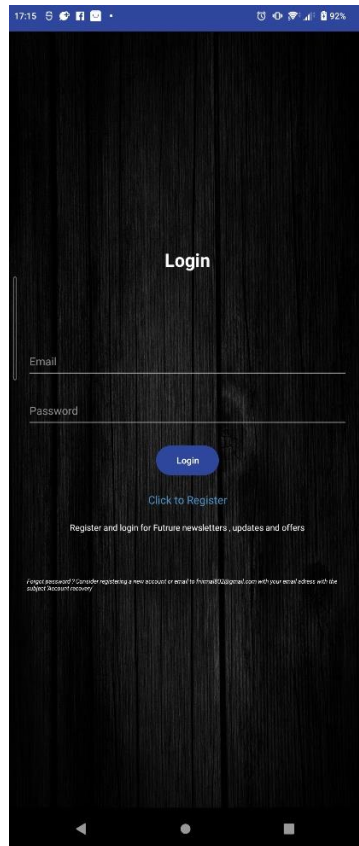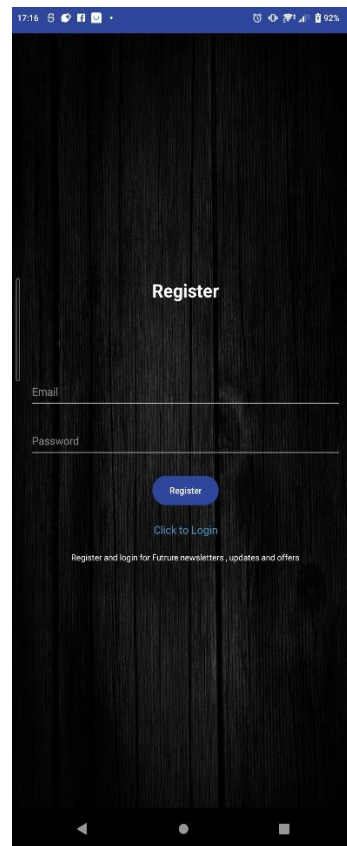
Progress Bar 3000 MS delay

Login Page   Register Page

Internet Connection is required

If there is no internet connection there will be a toast message with no internet connection pop up.

Email and Password

Email and password both should be entered in both login and register page if not a toast message will pop up saying enter email and password.

Login Page

If you have registered to the application, you can login with the email address and password given or you can *'Click to register'* and create a new account somehow an account must be created to do this quiz.
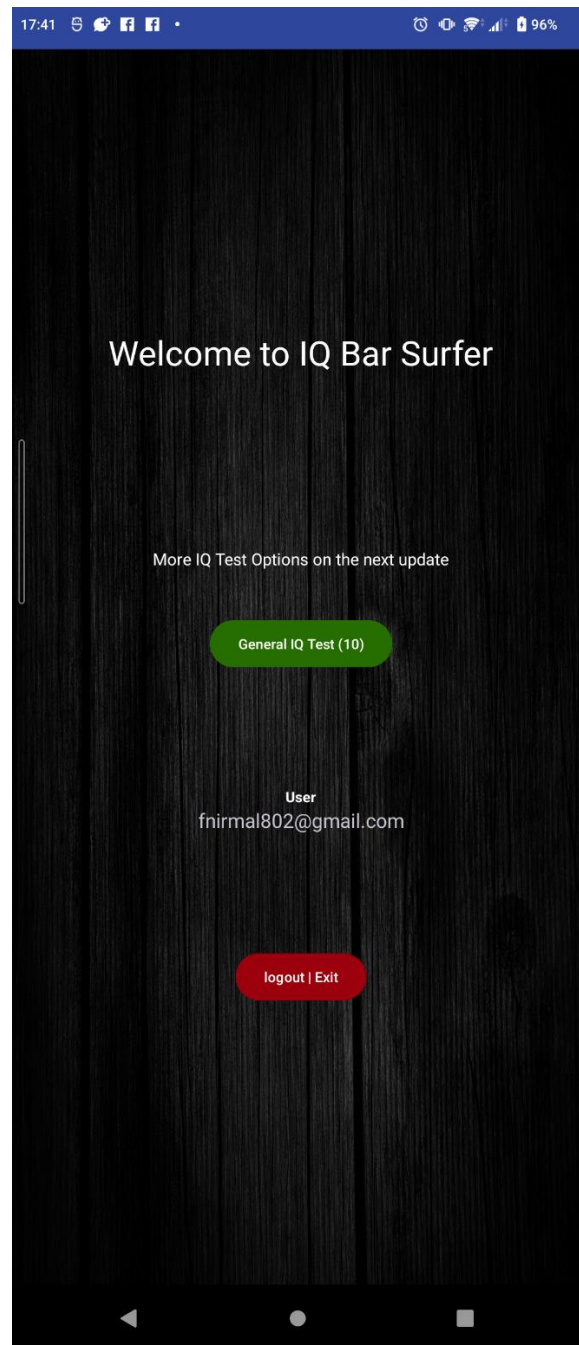
Register Page

Enter your email address and password to register your account. Once you login you will be navigated to the quiz page.

Account Recovery

As mentioned in broth login page you will have to email to *'fnimal802@gmail.com'* with the subject account recovery and your email address for a password reset.

Home Page

Logout

If you don't logout you don't have to sign in.
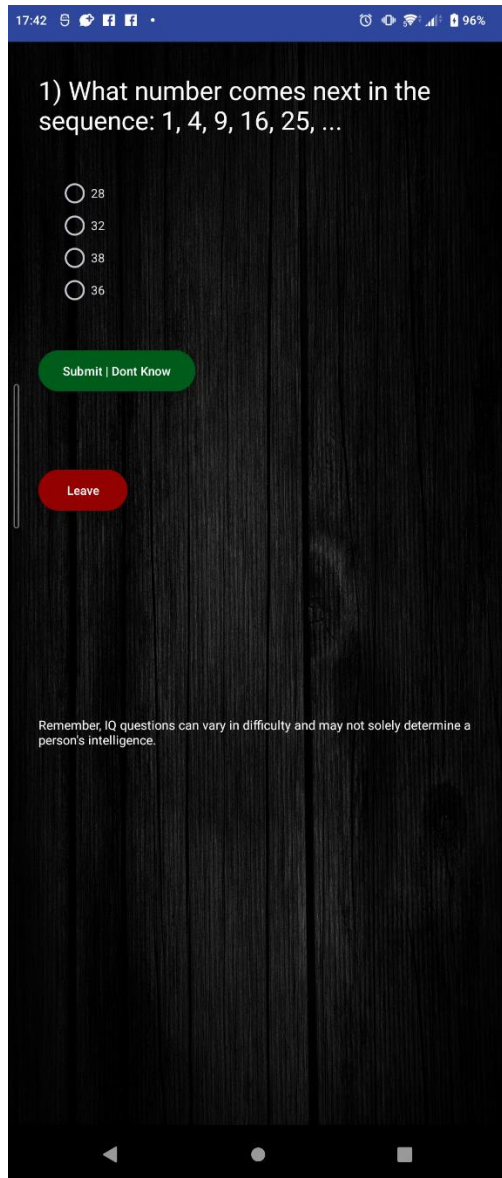
User

The user email address will be under the User label.

Green Button

For the first release you will see only one General IQ Test which includes 10 questions. Once you click the green button you will be navigated to the quiz.

Quiz Page

Instructions

Question will be on the top with the numbering. There will be 4 radio buttons you have to click on one and '*submit | don't know*' or if you don't know the answer also click on the '*submit | Don't know*' button.
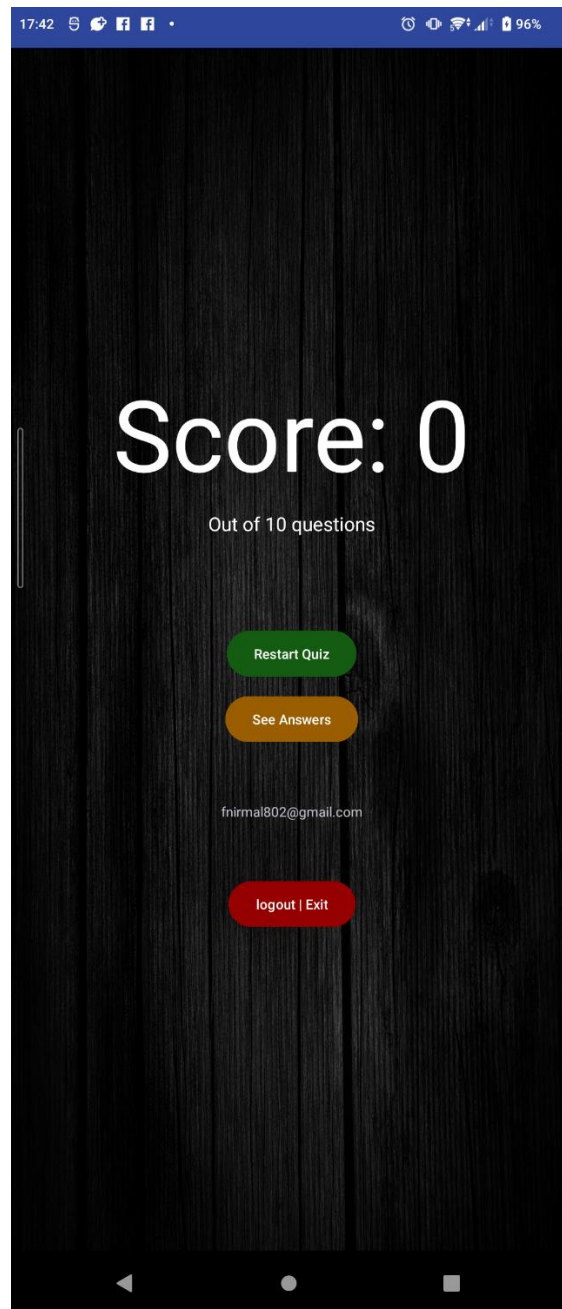
Green Button

To submit the button if you know the answer and if u don't know the answer.

Red Button

To leave the quiz and go back to the home page.

Score Display Page

Score will be display here based on how you performed.

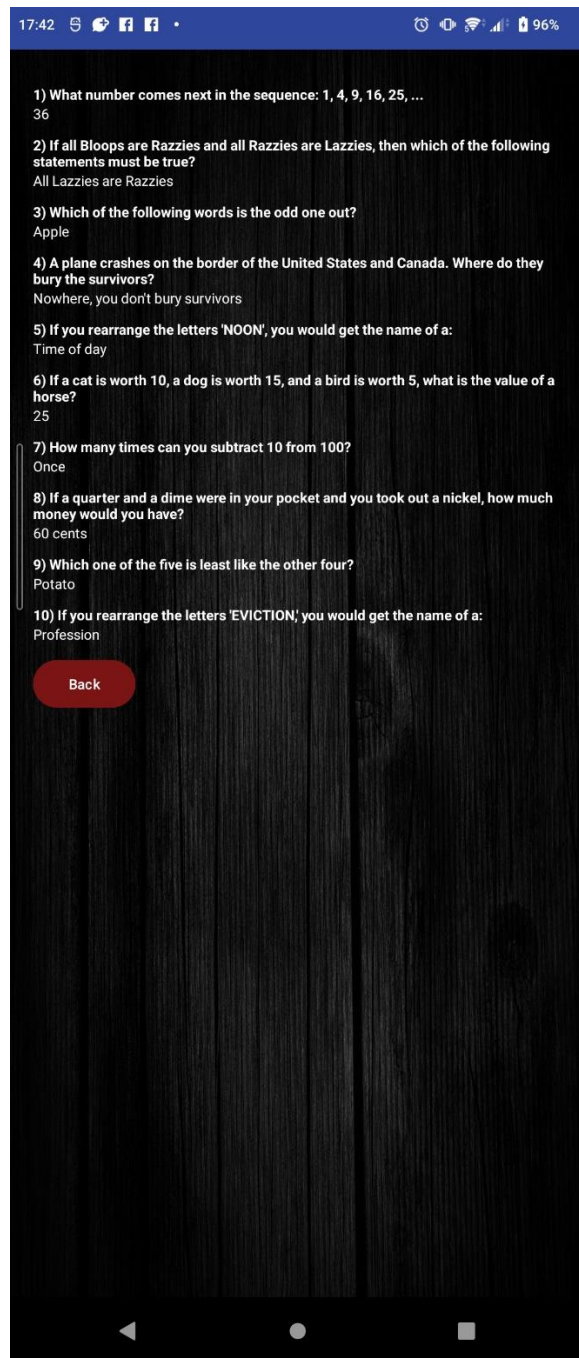**Green Button**

To redo the quiz, it will lead to the home page.

Orange Button

To see the correct answers.

Red Button

To logout

See Answers Page

1) What number comes next in the sequence: 1, 4, 9, 16, 25, ...
36

2) If all Bloops are Razzies and all Razzies are Lazzies, then which of the following statements must be true?
All Lazzies are Razzies

3) Which of the following words is the odd one out?
Apple

4) A plane crashes on the border of the United States and Canada. Where do they bury the survivors?
Nowhere, you don't bury survivors

5) If you rearrange the letters 'NOON', you would get the name of a:
Time of day

6) If a cat is worth 10, a dog is worth 15, and a bird is worth 5, what is the value of a horse?
25

7) How many times can you subtract 10 from 100?
Once

8) If a quarter and a dime were in your pocket and you took out a nickel, how much money would you have?
60 cents

9) Which one of the five is least like the other four?
Potato

10) If you rearrange the letters 'EVICTION,' you would get the name of a:
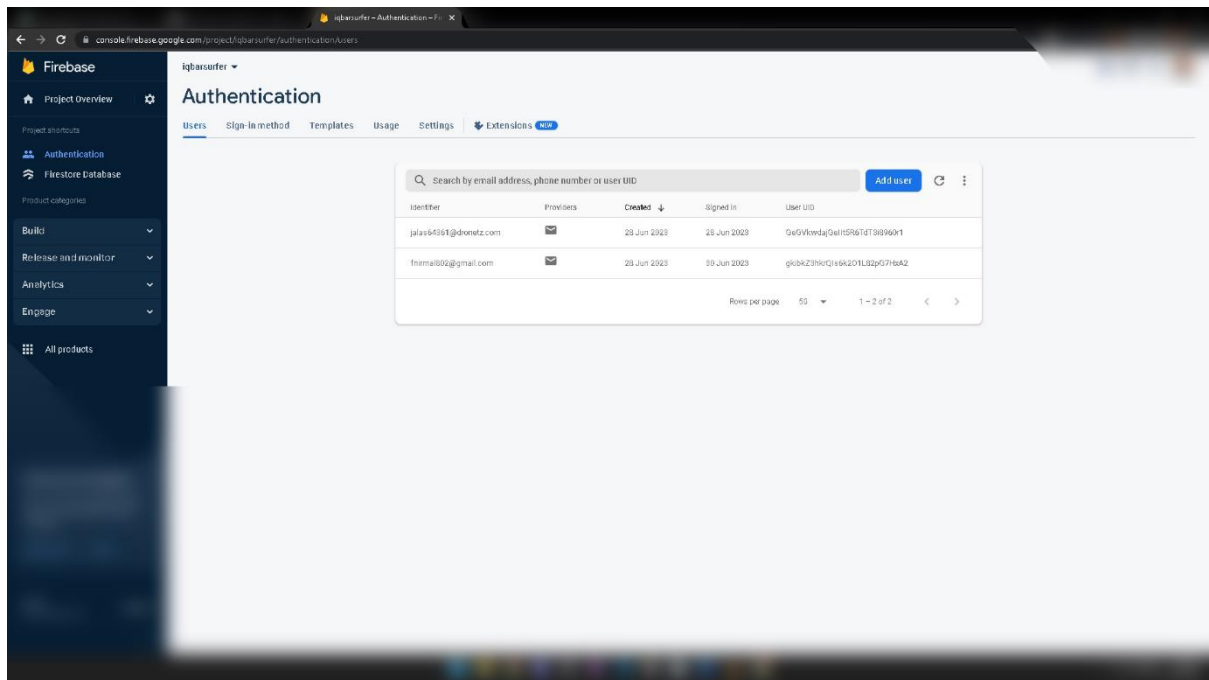Profession

Back

Here the correct answers are displayed

Red Button

To back from see answers page to score page.

Database

Firebase is a comprehensive mobile and web development platform provided by Google. It offers a wide range of services and tools to facilitate the development of scalable and feature-rich applications. Firebase provides features such as real-time database, authentication, cloud storage, hosting, cloud functions, and analytics, enabling developers to build and manage powerful applications with ease. With its ease of integration, real-time capabilities, and robust infrastructure, Firebase simplifies backend development and enhances app functionality.