

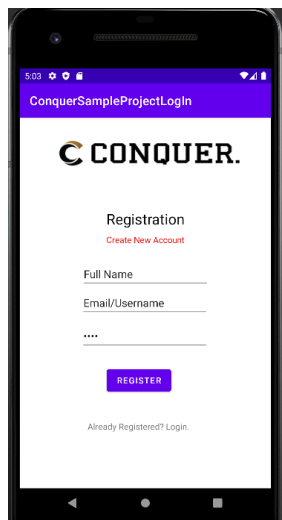
Conquer Sample Project Documentation - Arifur Rahman

- To begin this project, I decided to use Android Studio with Java.
- To check whether or not a username and password match an existing user, I decided to take advantage of Google Firebase as I am familiar with it and prefer managing a database this way.

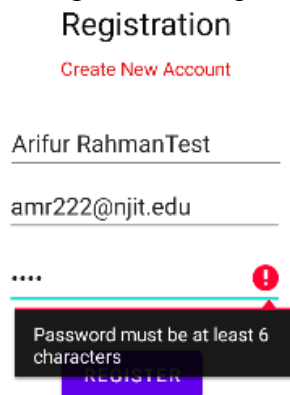
My application consists of a Login Page (Login.java), Register Page (Register.java), and the Main Activity (MainActivity.java), which in this case displays the successful login of a user and welcomes him or her to Conquer.

Upon starting the application, I first provided a Registration page. Here, you can see the Conquer logo and some fields required to create a new account. The entry fields for registration require a Full Name, Email/Username (in this case, a user's email is also their default username), and Password that requires at least 6 characters (arbitrary character count chosen).

Then, there is a Register Button as well as a prompt for already registered users. Users can tap “Already Registered? Login” to be directed to a login page that only requires the Email/Username and Password associated with a registered account.



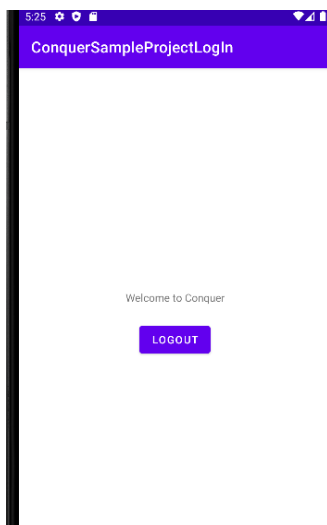
When registering, if the user inputs a password less than 6 characters long, they will be prompted to register with a password that is at least 6 characters in length.



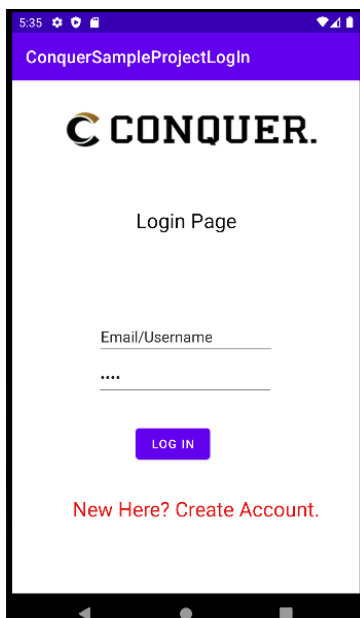
After providing a valid password and tapping “Register”, the user is taken to a Welcome screen and alerted that their registration was successful with a message specifying the Email/Username was created.

amr222@njit.edu User Created

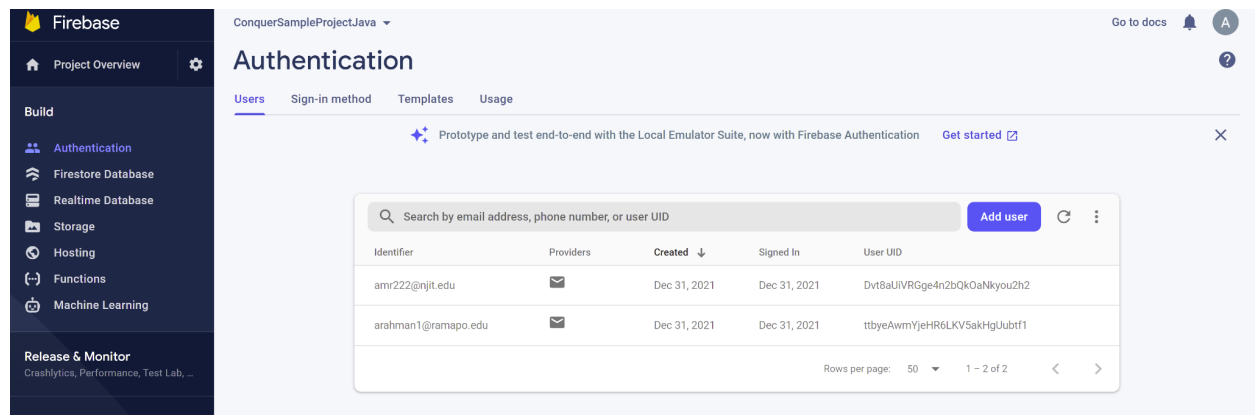
The welcome screen welcomes the user to Conquer and provides functionality to Logout:



If the user taps the Logout button, they are directed to the login page where they can enter an Email/Username and Password for an existing account or they can tap “New Here? Create Account” and then be directed to the Registration page:



Current existing users are stored in the firebase database connected to this project. In this firebase console you can view the database associated with the application.



The identifier here (Email/Username) uniquely associates accounts.

If the user is trying to create an account with an Email/Username that already exists in the database, they are provided with the following error message:

Registration
Create New Account

Random Name _____

amr222@njit.edu _____

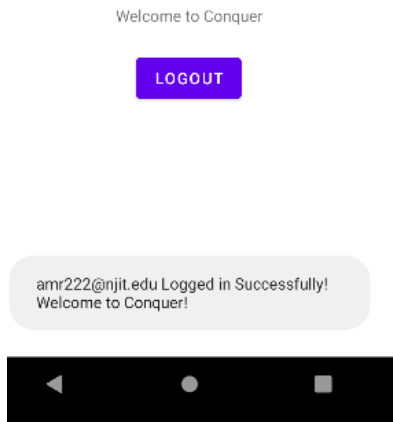
.....| _____

REGISTER

Already Registered? Login.

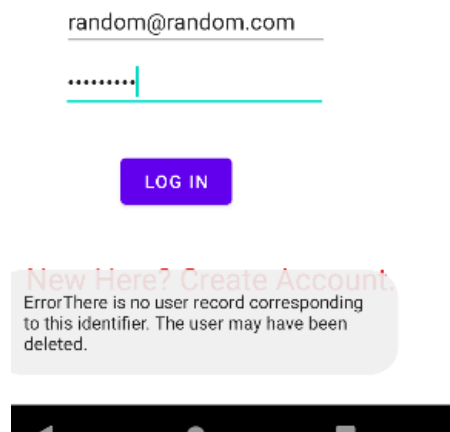
Error: The email address is already in use by another account.

When signing into an existing account successfully, the user is prompted with the following:



When attempting to sign into an account that doesn't exist, the user is prompted with the following:

Login Page



Side Notes:

- The full name field is not required per specification, but I included it to test out a few firebase features.
- The Identifier I used in this firebase connection was for a well formatted email address which doubles as the “Username”. Firebase does provide some additional custom authentication methods which will be useful for exploration in the future.