Go Flight

Phase 1 Report
Submitted By: - Rahul Nagaraju
A20543969
rnagaraju@hawk.iit.edu

ITMD 555

Open-Source Intelligent Device Applications

03/24/2024

Project Description

This project is to create an android application that will help book flights for a user based upon their source and destination. A user can select any flight from various available choices depending on the time and their price choice. Once the flight is selected the application will then present the user with passenger info screen.

The application will also have the functionality to save a flight, and then proceed faster to book it.

This application also needs users to be registered before they can view the available flights.

The application will also make use of firebase database to implement some functions.

Firebase functions will be used to fetch the flights for the specific data and time selected by the user. These functions can make use of FLIGHTS API to select the data.

Once the data is fetched by firebase functions, our application can then call these function endpoints to present the user with the data.

Sketches of Various Activity Screens
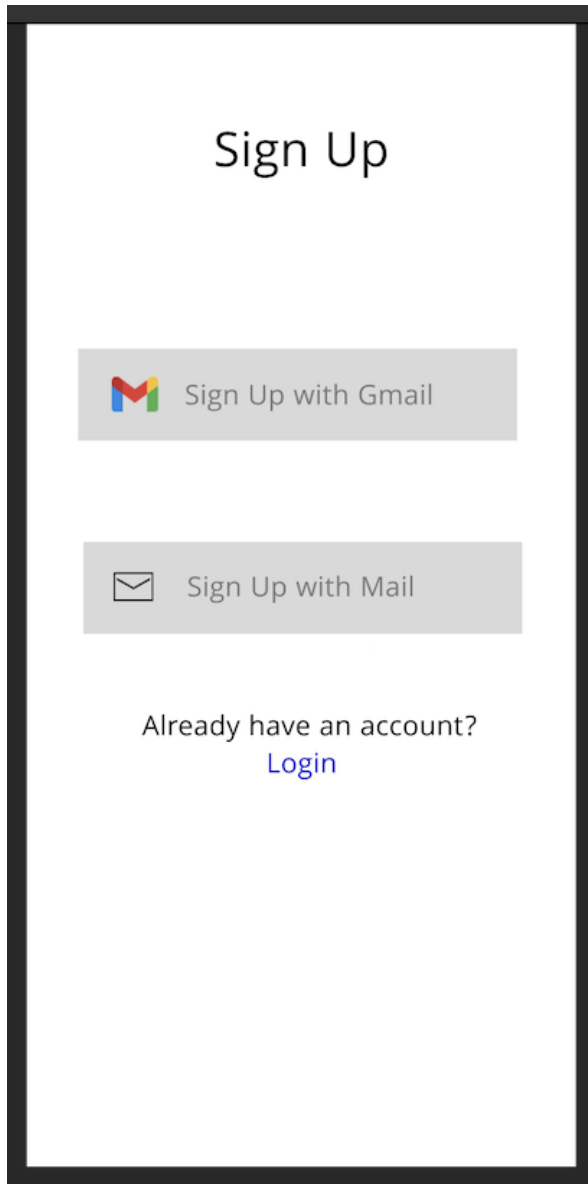
1. **Splash Screen**

When the users start the application, they will be shown this screen for a small interval of time, it will then change automatically.

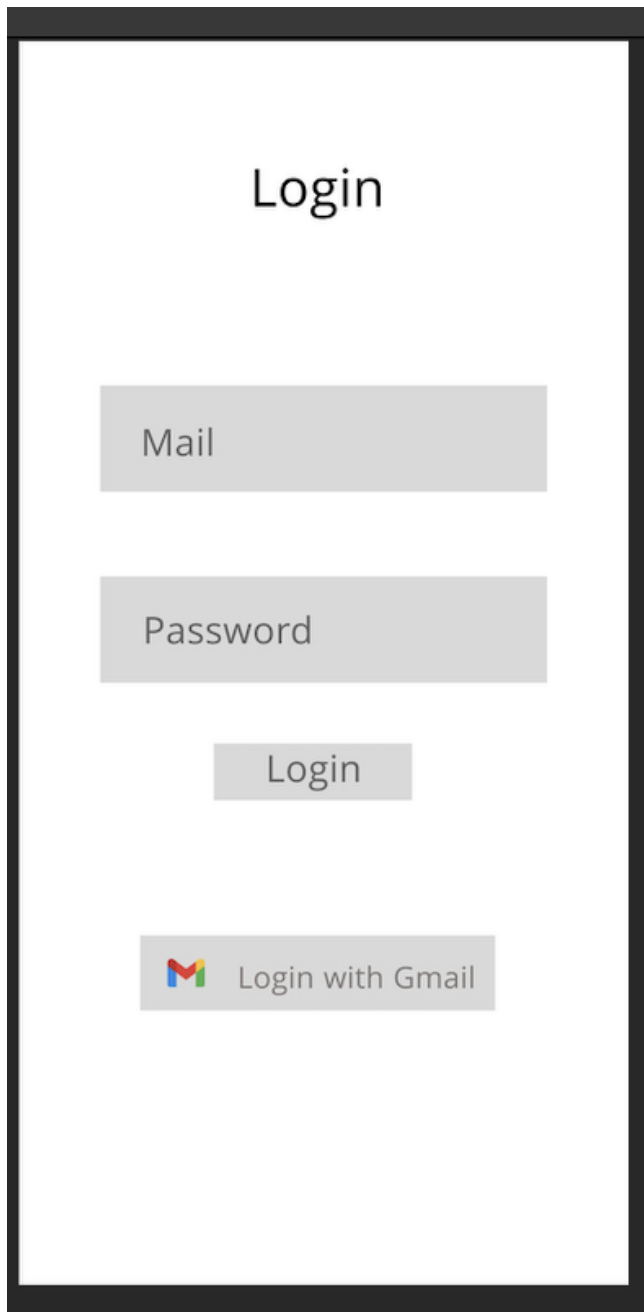In this screen, there is our logo of Flight Reservation System and writing of it.

2. Sign up Activity

This activity will be shown after the splash screen if the user is not signed in. This will allow the user to sign in using Google (Gmail) or an email. Firebase authentication will be used.

3.   Sign in/ Login Activity

This activity will allow user to sign in. A user needs to be signed in before using this application. Here the user enters the login information.

4.   Flight Source and Destination Activity

This screen will allow user to input the source and destination of their interests before they can be presented with the available flights. And date needs to be inputted.

5.   Flight Selection Activity
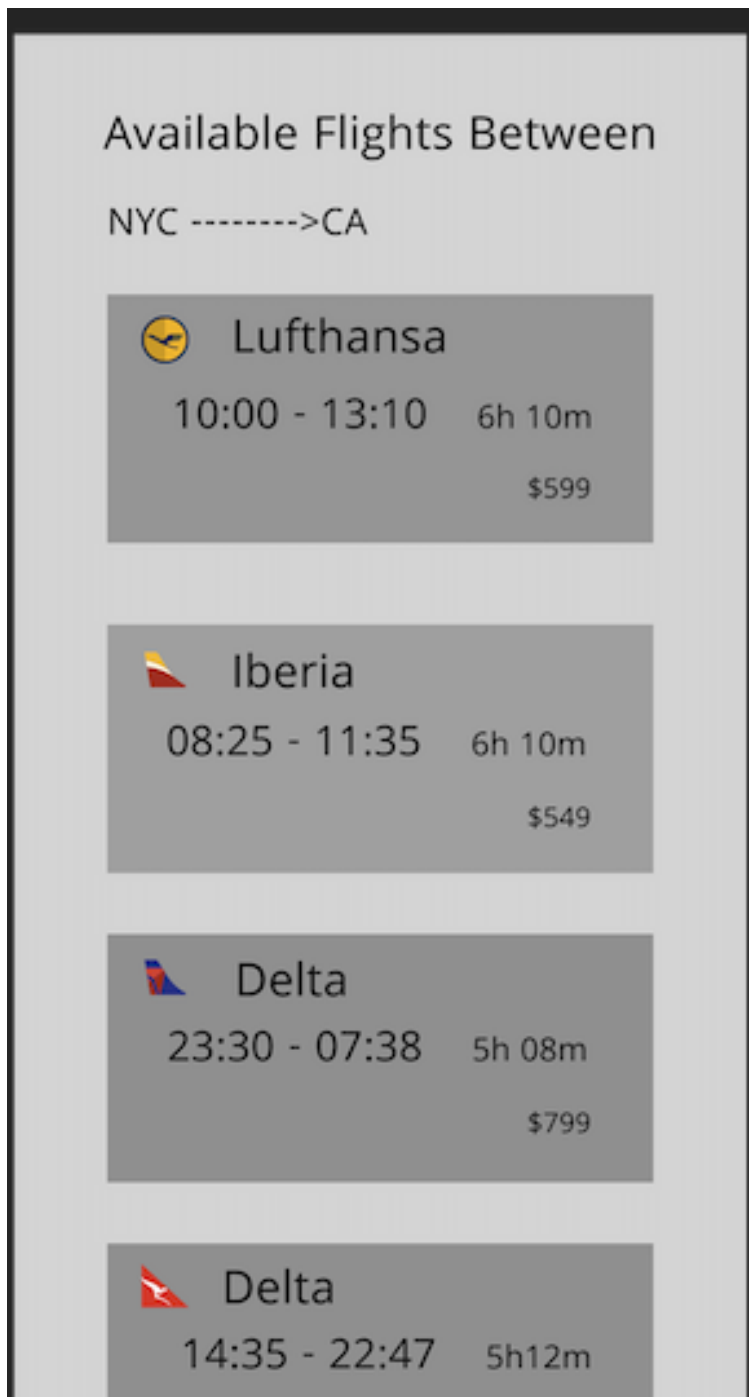
This screen will allow users to select flights based on timings and pricing conventions.

Available Flights Between

NYC -------->CA

Lufthansa
10:00 - 13:10   6h 10m
$599

Iberia
08:25 - 11:35   6h 10m
$549

Delta
23:30 - 07:38   5h 08m
$799

Delta
14:35 - 22:47   5h12m

6.   Passenger Info Activity

This screen will allow users to input passenger info including passenger birthdate,
passport and nationality which are crucial information.

Passenger Info

First Name   Last Name

Mobile Number

Nationality

Passport Number

Date of birth

High Level Flow Diagram for all these activities