Go Flight

Phase 1 Report

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# 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.

**A white sign with a blue and orange airplane and text

Description automatically generated**

1. **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.

A screenshot of a phone

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1. **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.

**A screenshot of a login screen

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1. 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.

**A screenshot of a phone

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1. Flight Selection Activity

This screen will allow users to select flights based on timings and pricing conventions.

Screens screenshot of a phone

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1. Passenger Info Activity

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

A screenshot of a phone

Description automatically generated

High Level Flow Diagram for all these activities

A diagram of a flowchart

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