

DigiAero



Digitizing your airport Experience

TEAM MEMBERS

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THEME

Airport

Video Demonstration URL

https://youtu.be/gfvi_Y5gax0



Code Repository URL

Mobile App ->

<https://github.com/bhatiagagan24/Jack-The-Hack-Hackathon->

APIs->

https://github.com/bhatiagagan24/Jack-The-Hack-Hackathon-/tree/landing_page_photo_dashboard/landing_page_dashboard/back_end

Problem Statement

Imagine a world where users can access every airport service right from their Phone? Imagine the satisfaction that the flyers will get from this service? Imagine the business it will generate for the outlets on the airport? Seems too cool right?

The current problems that the flyers face right now, is that there is no unified source of information about the activities on a airport. Requesting a service has also been a tedious task on an airport. Further, there is no lack of activities and consumer shops on the airport, yet flyers prefer to seat themselves at a single spot before a flight, which further hurts the business interests of the shop owners.

Solution

The service that we have designed to address the issues mentioned in the previous slide consists of a Cross-Platform Mobile Application and a set of APIs.

The Mobile App is well connected with the APIs and allows the flyer to stay up-to-date with all kind of deals, gain insights into the delicacies being offered in the lounge and also request services like Wheelchair assistance.

The APIs can also easily be used by the authorities to deliver the latest information to the flyers and also by airport outlets to deliver their latest deals to the flyers.

Technologies utilized

Programming Languages - Python and Dart

Framework for Mobile App - Flutter (Dart)

Framework for Web APIs - Flask (Python)

Database - SQLite

Google Sign In - GCP OAuth Service

Making our app scalable and complete

The services which we have designed and developed (Mobile App and APIs) can easily be made more scalable.

By our analysis: -

SQLite can easily be replaced with MySQL, which can further support more Concurrent Connections and heavy read writes.

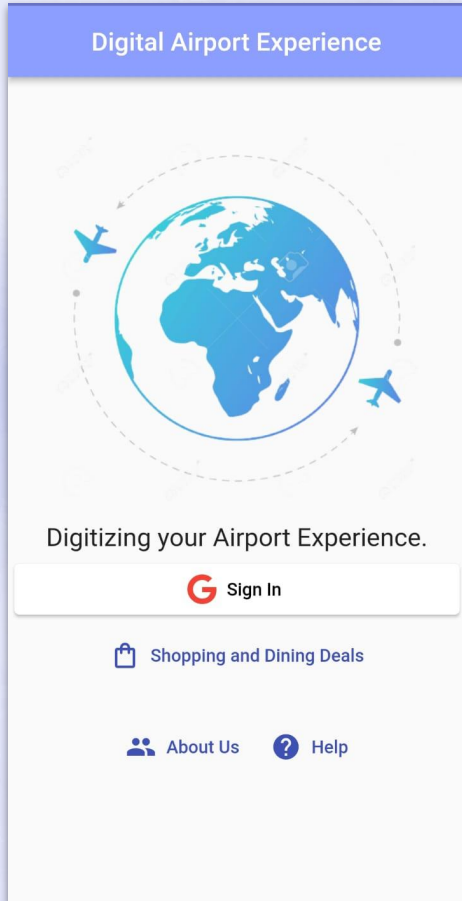
A suitable encryption algorithm will have to be implemented for storing sensitive informations like Card Details and so on. These are not being encrypted right now in the prototype.

More Sign-In options including Mobile OTP signin can be added to make the app more accessible.

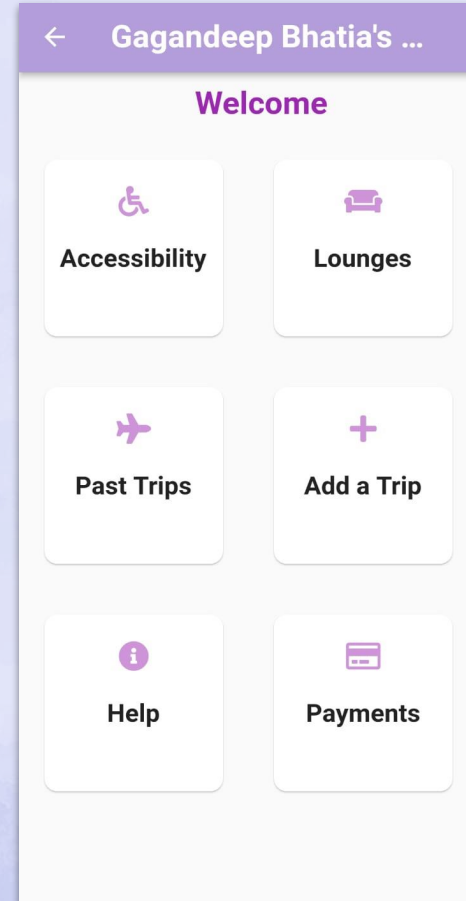
Lounge Eligibility check algorithm will have to be implemented by the authorities and update it on the GET request route.

Screenshots


App Landing Page



After Sign-In






Check out a Deal


 Deals

Select The Airport From Drop Down Below

Delhi






**Shop3**


20% Off
20% off on everything



Deals at an airport

 Deals

Select The Airport From Drop Down Below


Delhi





Shop1**Shop3**

Past Trips


 My Past Trips

flight1

flight2


sf131

Upload Card Info

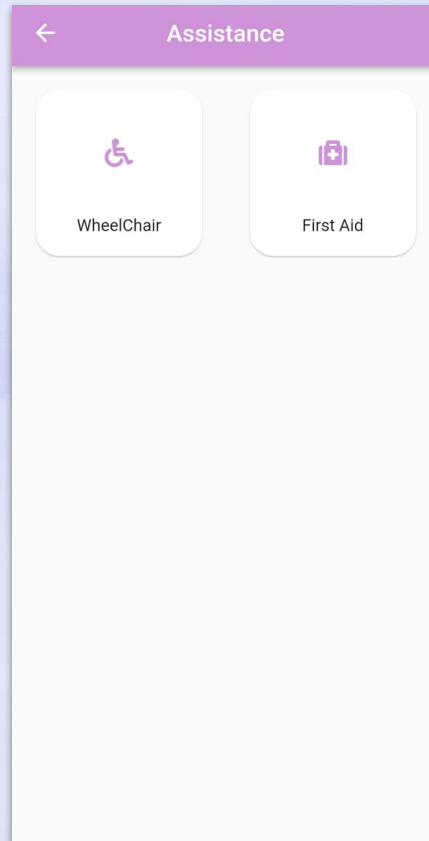
 Payment Methods

\$


CARD NUMBER1234567891234568



Ask for Assistance



Select an Airport

 Airport

Welcome

Where are you flying from?

Delhi

Mumbai

amritsar

Next

Select the Lounge


 Lounges


Delhi1


Delhi2





Check out the delicacies

 Lounge Food Menu

 Rajma

 Rice

 Chole

 Parantha

Thank You for Checking out the Project.

We hope you liked our Submission !