

FlyNow

Team #40

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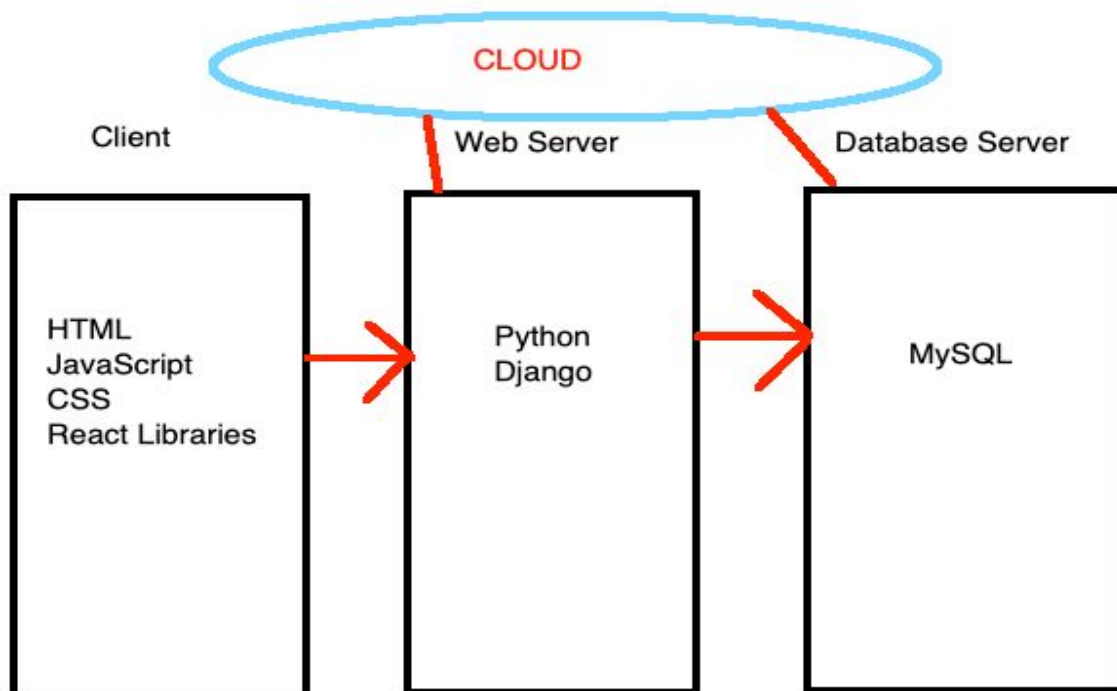
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Project Overview

- The aim of this project is to design a Database Application that can hold flight data and passenger information and act as a hub for managing flights. It will give users the ability to book, modify, and cancel flights, as well as viewing their current flights and previous records. Admins will be able to view users' data and modify them as needed. This application will have a database that has tables with account information for users and admins, and also tables for flight information. This information will be available to those with permission to view it and it will be secured so that those without permission can't see it.
- The stakeholders would be mainly airline executives but also possibly aviation colleges. It is important to have the airline executive's as stakeholders because they want a product that is tailored for their specific needs so their input is important in designing the project. Another stakeholder could also be an aviation college, where they could study passenger and flight data, additionally a government entity could be a stakeholder such as the Federal Aviation Administration or Department of Transportation, where they could also analyze passenger and flight data it would be important for them to be stakeholders because if they analyze the data they could suggest improvements for a better flying experience.

System Environment



Functional Requirements

- Signup
 - Users
 - Users can signup using their Email address, first name, last name, and password. They can keep track of their booking, and save flights.
 - Admin and partners
 - Partners will be given a special login credential while they partner with our website
 - Admin will access the data through the backend.
- Login
 - Users
 - Users can log in/signup using their Email address and password. They get to access their previous bookings and favorite airlines.
 - Admin and partners
 - Admin gets to access the complete data and statistics of the website.
 - Partners can log in to the web app to look into the statistics. Different airline partners can look into the performance of their airline in terms of booking, and where they stand.
- Search for flights
 - A flight search engine in which the users can search for flights on a specific date.
- Book a flight
 - Out of the search results, the user can book a flight that best suits them.
- Save a flight
 - The user can save a flight so that the user can book the saved flight later.
 - The user can save a flight only after logging in, and the user can retrieve the same flight later by logging in.
- Change a flight
 - Users can change the booked flight later if the user decides to change it.
- Current/previous bookings
 - The user can log in to their account and look into their past/present booking

Non-functional Issues

- For the Graphical User Interface (GUI) we will likely be using the React library for Javascript to simplify the process of creating a clean-looking and cohesive UI. We may even use a framework such as the Material-UI framework to give our application a professional and coherent look.
- For security, we will use Django authentication for login/signup authentication which will protect the privacy/security of the users.
- We will use different portals for users, admin, and partners. The information will be limited depending on the user type. Information provided will be different based on the user type.