Design Document

# Functional Requirements

* As a potential traveler, I want to search for flights by origin, destination, and date so that I can find available options.
* As a traveler, I want to filter flight search results by price, airline, and number of stops so that I can find the best-suited option.
* As a traveler, I want to select a flight and view detailed information about it, including price, time, and stops, so that I can make an informed decision.
* As a traveler, I want to securely input my personal and payment information so that I can complete the booking process.
* As a traveler, I want to receive a confirmation email with my booking details after completing the purchase so that I have a record of my flight reservation.

# Technical Requirements

* Backend: Python/Django
* Frontend: React.js
* Database: PostgreSQL
* Deployment: Docker/Kubernetes on cloud platform

# Assumptions

* Payment service is integrated
* Admin user role has access to all booking data

# Open Questions / Risks

* Query performance under heavy load
* Integration with flight seat map