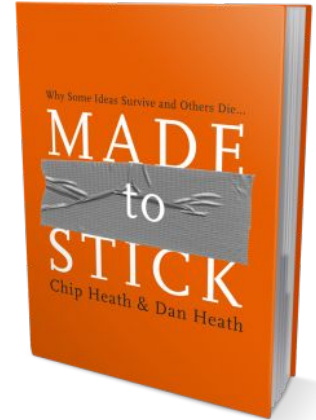

Project AirView

Fly Smart, Check-In Fast: Your Gateway to
Hassle-Free Travel!

What We Try To Accomplish

- Web Application
- Direct platform
 - Booking flights
 - Checking in baggage
 - Boarding passes





Objective

This project is to create a centralized system for airport management

→ **Existing Platform**

customers rely on third-party booking services and airline systems for flight booking and airport check-in.

→ **What Makes Us Better**

Create a centralized system for airport management. Eliminate 3rd party services, simplify customer's flying experience.

A close-up photograph of a person's hand holding a black smartphone. The phone's screen is lit up and shows a list of items, possibly a shopping list or a menu, with some text in red and blue. The word "Scope" is written in a large, white, sans-serif font across the middle of the image, partially overlapping the phone and the hand. The background is a blurred red fabric, likely a shirt or jacket, with some white stripes visible. The overall lighting is soft, and the focus is on the hand and the phone.

Scope

Five Major Features!

- User Authentication
- Flight Booking
- Check-In Management
- Update and Display Flight Status
- Admin Management

Using Mock Database for Proof of Concept

User Authentication

- Registration
- Logout
- Role Based User Access
- Email Notification

Check-In Management

- Online Check-In
- Email Notification
- Generate Flight Ticket

Flight Search

- Search Flights
- Display Flight Status

Booking

- Baggage Check-In
- Seat Selection
- Booking Confirmation
- Email Notification

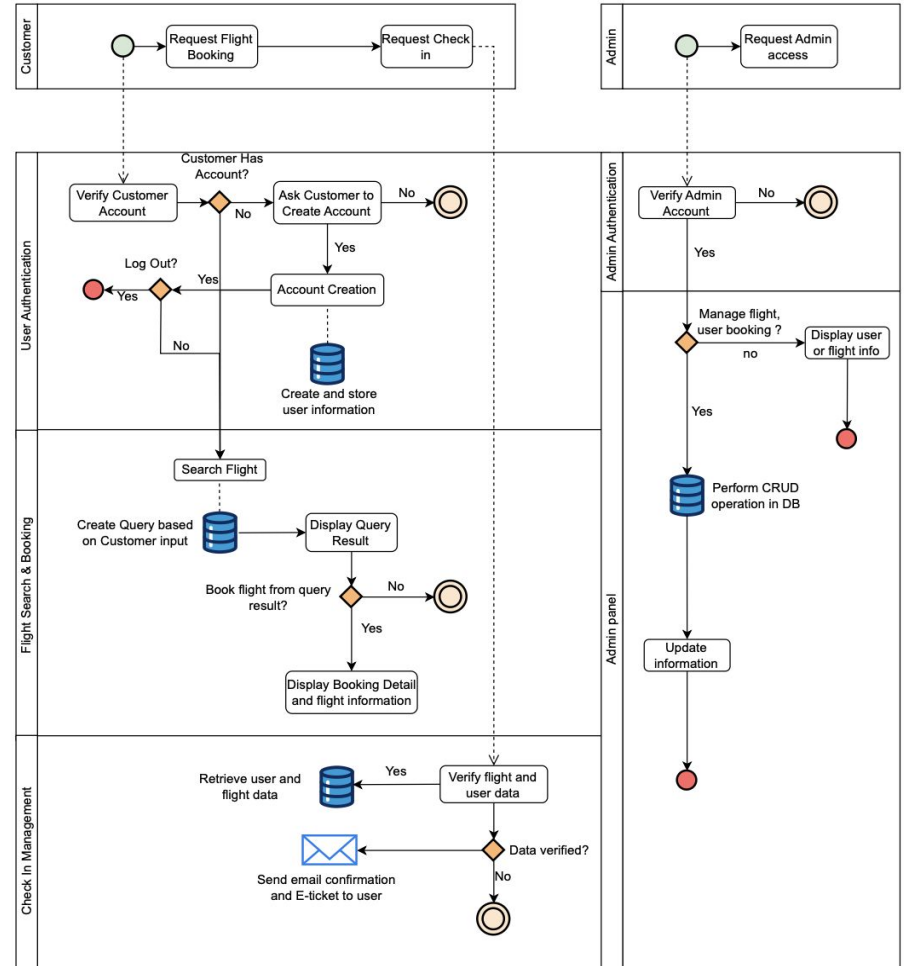
Admin Panel

- Manage Flights, Booking
 - Update
 - Delete
 - Create
- Notification for Update

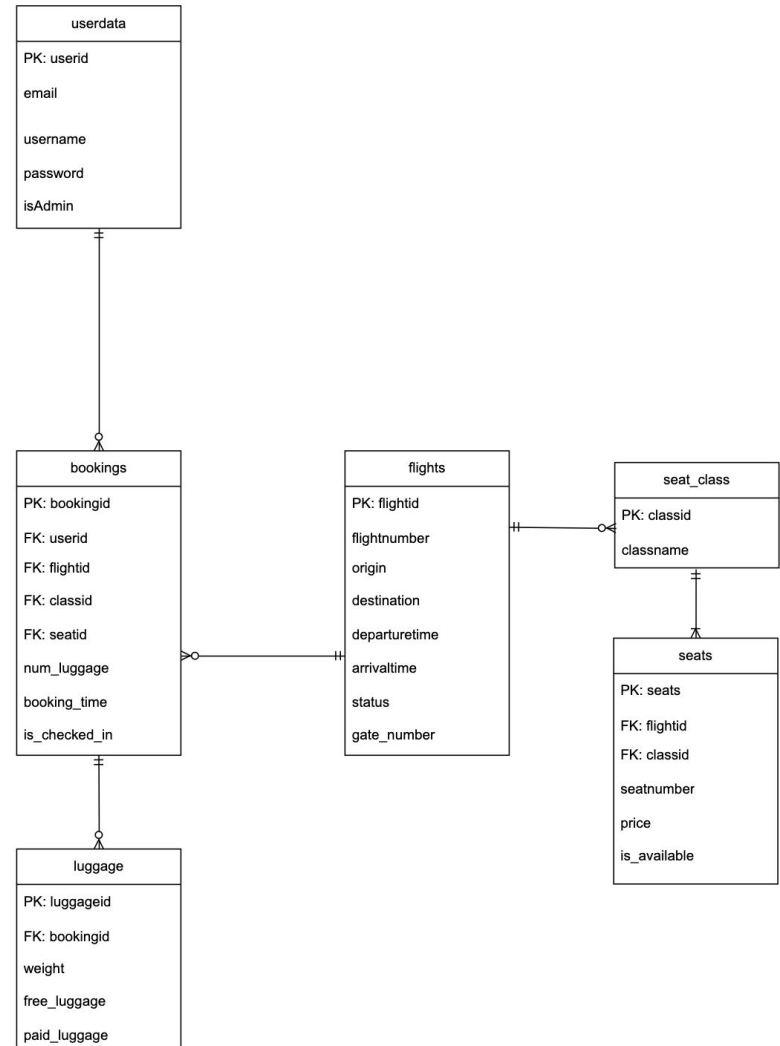
A close-up photograph of a person's hand holding a black smartphone. The phone's screen is lit up and shows a list of items, possibly a shopping list or a menu, with some text and small images visible. The background is a blurred red fabric, likely a shirt. Overlaid on the center of the image is the text 'Technical Aspect' in a large, white, sans-serif font.

Technical Aspect

Architecture Implemented



Database



Technology Used

Frameworks and Libraries

- Python Flask

Database

- SQLAlchemy

Utilities and Helpers

- Pytest
- Werkzeug
- Idna
- Python-dotenv
- email_validator

A hand holding a smartphone, with the screen displaying some text. The background is a blurred image of a person wearing a red shirt. The text "Challenges and Learning" is overlaid in white.

Challenges and Learning

CI/CD

Learning

- Early Bug Detection
- Faster Development
- Version control
- Avoid tester and developer conflict

Challenges

- Difficult to setup workflow
- Time consuming
- Learning Curve

Software Development

Learning

- Test Cases Creation
- Team Communication
- GitHub
- Project Modularization

Challenges

- Design Test Cases
- Lack of development speed
- Merge conflicts

A hand holding a smartphone, with the text "Future Improvement" overlaid in white. The background is a blurred red and white striped pattern.

Future Improvement

Payment Form

- Multiple Payment Methods
 - Paypal
 - Credit/Debit Card
 - Apple PAy
 - etc.

Round Trip Booking

- Round Trip Flight Search
- Round Trip Booking
- Notification When Both Trip Approaching

A close-up photograph of a person's hand holding a black smartphone. The phone's screen is lit up and shows a list of items, possibly a shopping cart or a menu, with some text visible but mostly obscured by a semi-transparent red overlay. The word "Demo" is written in large, white, sans-serif font across the center of the image, partially covering the phone and the hand. The background is a blurred red fabric, likely a shirt or jacket, with some white stitching visible. The lighting is soft, and the overall tone is slightly muted due to the red overlay.

Demo