

Airport Management System

Project Guide

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Sem-3

Roll No:1

ABSTRACT

Proposed System

The Online Airport Management System is a smart digital tool designed to help airports work better. It's like a digital control centre that makes flights run smoothly and helps passengers have a great experience. This system helps with things like keeping track of flights, letting passengers check in online. It also helps keep everyone safe by managing security and emergencies. Plus, it helps airport shops and services work well and keeps the staff organized. Passengers can get updates on their phones, and the system also gives useful reports to help the airport improve. It's a user-friendly system that makes airports run efficiently.

Booking flights has become simpler with online platforms. User can now search for flights on their computer or phone, choose favourite seats, and pay securely. After booking, user will get an instant confirmation and an e-ticket in their email.

Details about the airport management are maintained computerized which allow to the administrator with less management. Data's are stored and retrieved whenever needed. Time is saved. It includes all details to be stored in database which provides flexible operation of data mining.

Existing System

The current airport management system involves manual processes, fragmented communication, and limited integration. It often relies on traditional paper-based methods for scheduling, passenger services etc. Some key limitations of the existing system include:

Limited Real-time Information: Flight schedules, gate changes, and other updates are communicated through various channels, leading to confusion and delays.

Passenger Disconnection: Passengers lack personalized updates and convenient online services, leading to frustration and confusion.

Safety Challenges: Response to emergencies can be slow due to reliance on manual reporting and communication.

Limited Insights: Lack of data analysis means missed opportunities for improving operations and passenger experiences.

Benefits Of Proposed System

Efficiency: Streamlined operations and automation of tasks lead to increased efficiency in airport management. This includes optimized resource allocation, faster aircraft turnaround times, and improved staff scheduling.

Real-time Information: Passengers and airport personnel have access to real-time flight information, delays, and other updates, reducing confusion and enhancing the overall passenger experience.

Improved Passenger Experience: Online services such as online check-in, seat selection, and personalized updates make travel more convenient and enjoyable for passengers.

Enhanced Safety: The system can facilitate quicker responses to emergencies with automated incident reporting and improved communication, contributing to passenger and staff safety.

Access Anytime, Anywhere:

Enables access to the system from any internet-enabled device, enhancing flexibility for customers and staff.

Data Security:

Implements security measures to protect sensitive customer data, financial information, and operational details.

Environmentally Friendly:

Reduces paper usage and contributes to environmental sustainability by minimizing paperwork and optimizing routes.

online airport management system offers a wide range of benefits that include improved efficiency, enhanced safety and a better passenger experience

Modules

1. User
2. Admin
3. flight management

User

- Log In, Register
- Flight booking
- Personalized seat
- Online Payment
- Baggage Tracking & handling status
- View schemes and offers
- Chat bot for queries
- Cancellation
- Refund
- Insurance

Admin

- Log In
- View user details
- Flight management [Add/Edit/Delete]
- Staff management
- Payment & cancellation details
- Update Schemes and offers

Flight Service Providers

- View user details
- Ticket Allocation
- Seat management
- Luggage management
- Staff Duty Assignment
- Staff Management
- View customer review, rating

TECHNOLOGIES

FRONT END : Html, CSS, JavaScript

BACK END : Python

FAME WORK : Django

Mini Project Functionalities

User

- Log In, Register
- Flight booking
- View Flight Schedule
- Cancellation

Admin

- Log In
- View user details
- Flight Schedules [Add/Edit/Delete]

Flight Service Providers

- View user details
- Ticket Allocation

Main Project Functionalities

User

- Personalized seat
- Online Payment
- Baggage Tracking & handling status
- View schemes and offers
- Chat bot for queries
- Refund
- Insurance

Admin

- Payment & cancellation details
- Update Schemes and offers

Flight Service Providers

- Seat management
- Luggage management
- Staff Duty Assignment
- Staff Management
- View customer review, rating