

Check In Flight System

A Summer Project.



Team #01

Problem Statement

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Abstract

Problem

Airport flight check in system is one of the most important softwares used related to the Flight Systems.

We can notice that the famous airports always have a reliable, strongly built Check In Flight System.

Accordingly, an Airport is trying to improve its services , so they decided to make an online Airline Check-in System to avoid frustrating passengers. They must strive to make operations as efficient as possible. This document proposes a solution to save time.

Analysis

- 1] Passengers should be present at the Airport before the departure time by at least 2 hrs.
- 2] Passenger is required to attach the following documents:
 - Flight Number
 - Confirmations (Visa / Payments / etc ..)
 - A **Valid** PCR Test For Covid-19
 - Flight Source / Destination
 - Number of seats Reserved.
- 3] Passenger is required to:
 - Choose seat(s) from the unoccupied - Available - seats displayed on the screen.
 - Pass to the system a detailed information about his luggage (Number of Bags, Total Weight)
- 4] Passengers receive a **“Boarding Pass”**.
- 5] The Boarding Pass Contains The Following Information:
 - Passenger Full Legal Name
 - Passenger Nationality
 - Airline Name
 - Flight Gate Information
 - Flight Number - Departure / Arrival Cities
 - Departure Time
 - Reserved Seat(s) ID
 - Baggage Quantities
 - Preferred Meals
- 6] Cancellations are indicated from anywhere to any place.

User Scenarios

- 1] After The Submission of the user for the required documents, Multiple Checking Functions will be executed on each of them, to check their validity.**
- 2] The System should check the current time, and the flight time, and then calculate the deadline for checking in, if the current time is out of the permitted duration (Before / After it) for checking in,
The system should show an error message saying that checking in for flight number X is closed.**
- 3] The user may submit false / expired documents, so the system should be able to handle this case and show the user an error message identifying the expired / rejected document.**
- 4] The user may enter a wrong source / destination for the flight, so the system should handle this also.**
- 5] Then, A Checkup will be made on the seat(s) chosen by the user, to check if it is empty or not, also the luggage information would be checked, so as to make sure that the weight of it is less than or equal the maximum allowed weight.**
- 6] After the detailed check up on all of the user submitted information, The Boarding Pass would be displayed to the user, giving him the option to save the document on his device - Either to print it, or show it to the staff member at the flight gate. -**

Scope

A] The Program's Scope should cover & handle each of the following cases:

- The Correctness of the submitted information about the user and the flight such as his name, flight number, etc .. by searching for the passenger among the flight - which should be checked first by the flight number to be able to access the flight passengers then. - passengers
- The Program shouldn't crash under all circumstances, when a wrong input / data is given, the program should handle it and display a message explaining in detail the expired documents / wrong input.
- Choosing Occupied / Unoccupied seat(s)
- Giving the user the option to Edit & change the submitted data by returning him to the submission form / page.

B] The Following is considered to be out of the program's scope:

- The Validation of Each Submitted Document. (for ex. if the PCR is expired ..)
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References

- [Reference @ Wikipedia](#)
- [Reference @ Real Simple](#)

End of Document.