

Database Management Systems

Topic: Airport Management System

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Aim:

To create an airport management system for an upcoming airport. The system would be used by multiple users who would want access to different data for their day to day operations. This includes passengers as well as security personnel and flight staff.

Summary:

The various users are:

1. Security personnel: They would easily verify the names and information of the passengers travelling across a series of flight manifests. They would be able to clear passengers for their flight.
2. Flight staff: They would require information about passengers travelling in their respective flights. Before the flight, they generate a report of all checked in passengers who have cleared security. The report would contain details of number of passengers and their names.
3. Passengers: They can use their unique booking ID and last name to access flight information and perform self check in. They can also search and book flights. Unique booking ID would be generated for each booking.

The data maintained would be as follows:

1. Passenger information: Maintain list of passengers and their respective flight information.
2. Flight information: Maintain list of flights and their departure/arrival timings along with the maximum size of passengers that could be accommodated on each flight.

Objectives:

To learn about DBMS concepts and incorporate them in a useful manner.

To learn to apply MySQL queries.

To build an efficient airport management system using relational databases.

Framework:

Django with MySQL database