
Software Design Document

for

Airline Reservation System

Version 1.0

Prepared by

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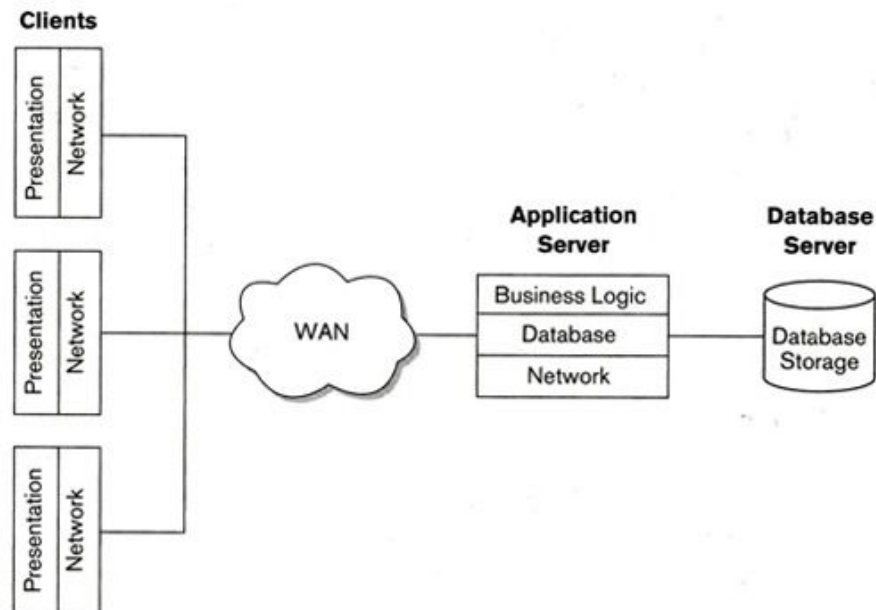
2. SYSTEM OVERVIEW

The Airline Reservation System Project will provide the following functions:

- *Flight Booking System: The system allows the customers to search for flights that are available between two cities for a particular date. It gives the list of available flights and allows the users to choose a ticket and make a reservation if there are seats available. The customers can also cancel reservations.*
- *User Accounts System: Creating and maintaining an online account on the system, in order to see status and updates on booked flights. A user can login into his account by providing its authorised username and password and alternatively a new user can register into the system and hence become an authorised user.*

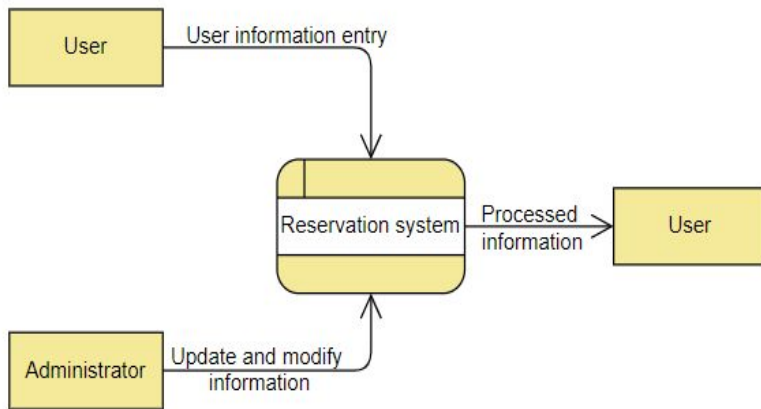
3. SYSTEM ARCHITECTURE

3.1 Architectural Design

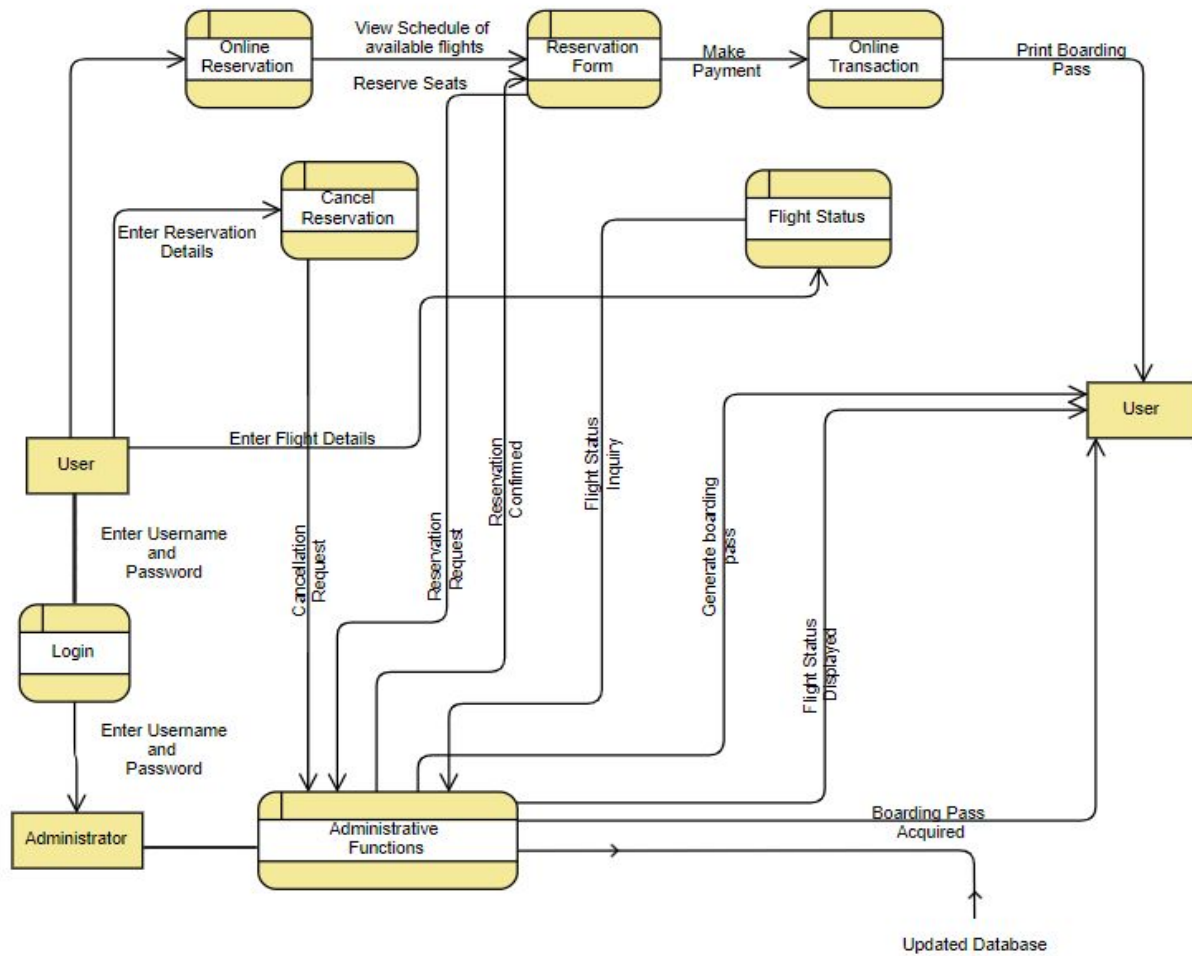


3.2 Decomposition Description

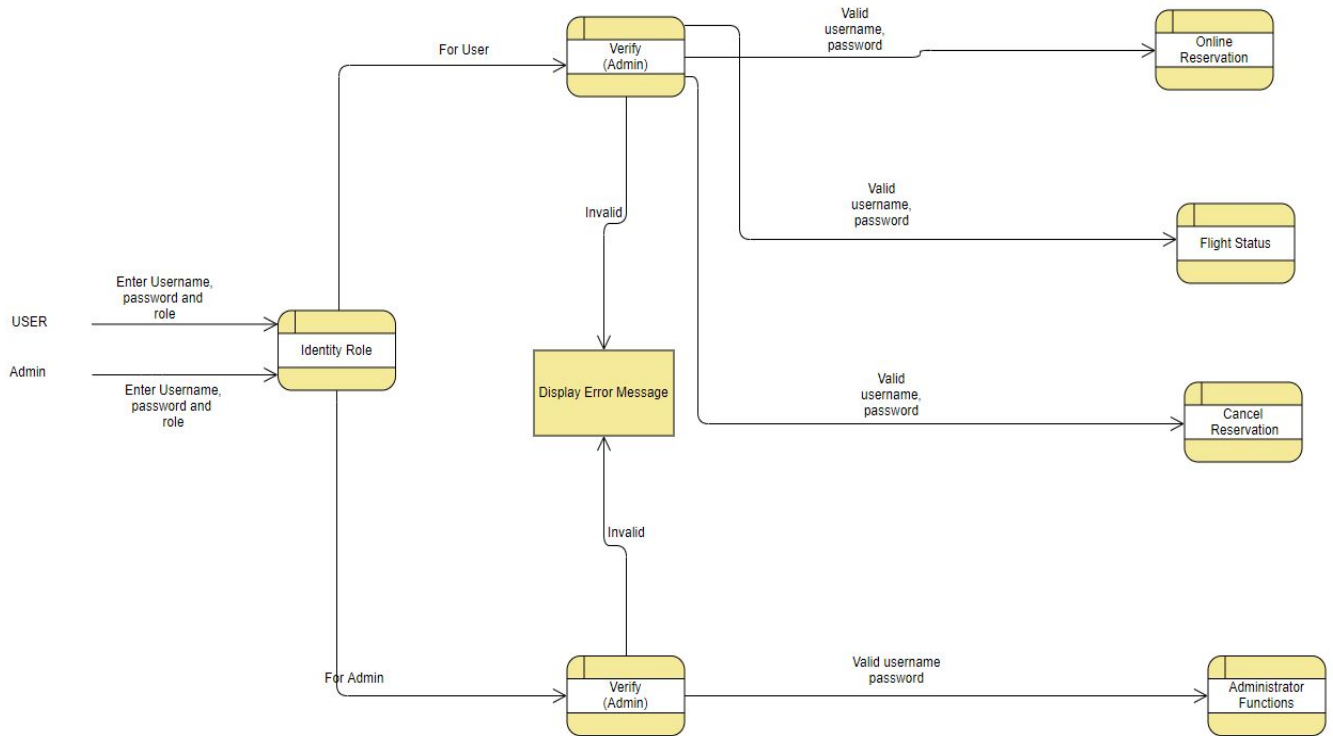
Context level



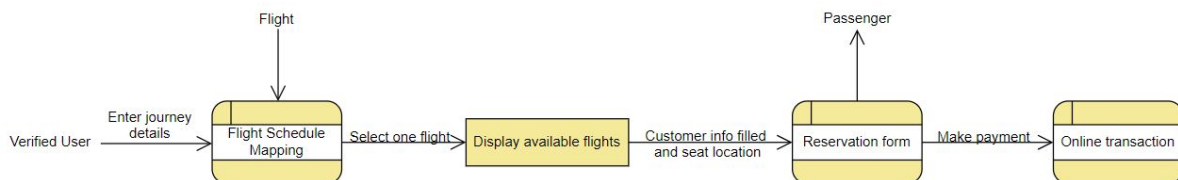
Level -1 DFD



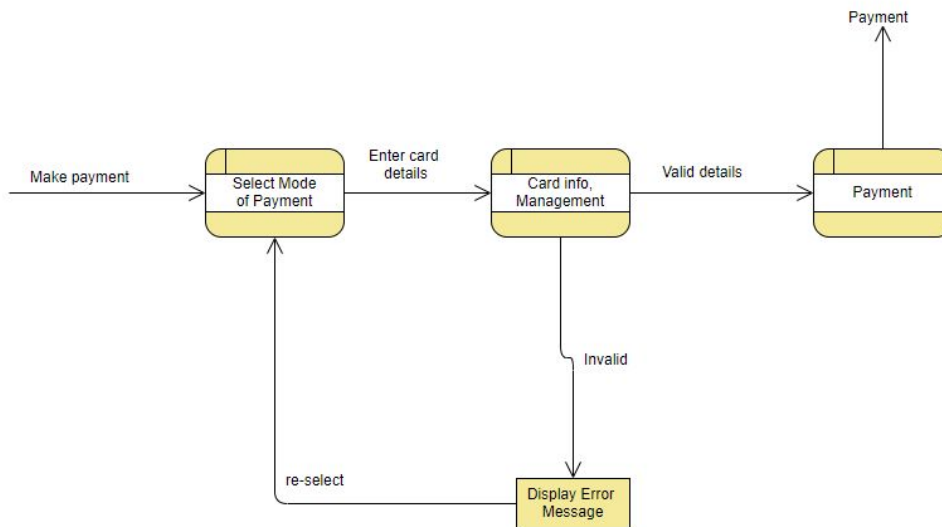
Level -2 DFD of login



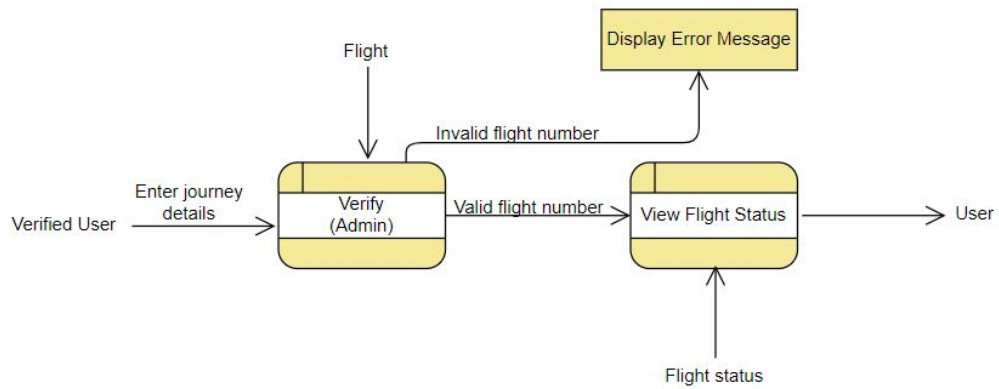
Level -2 DFD of online reservation



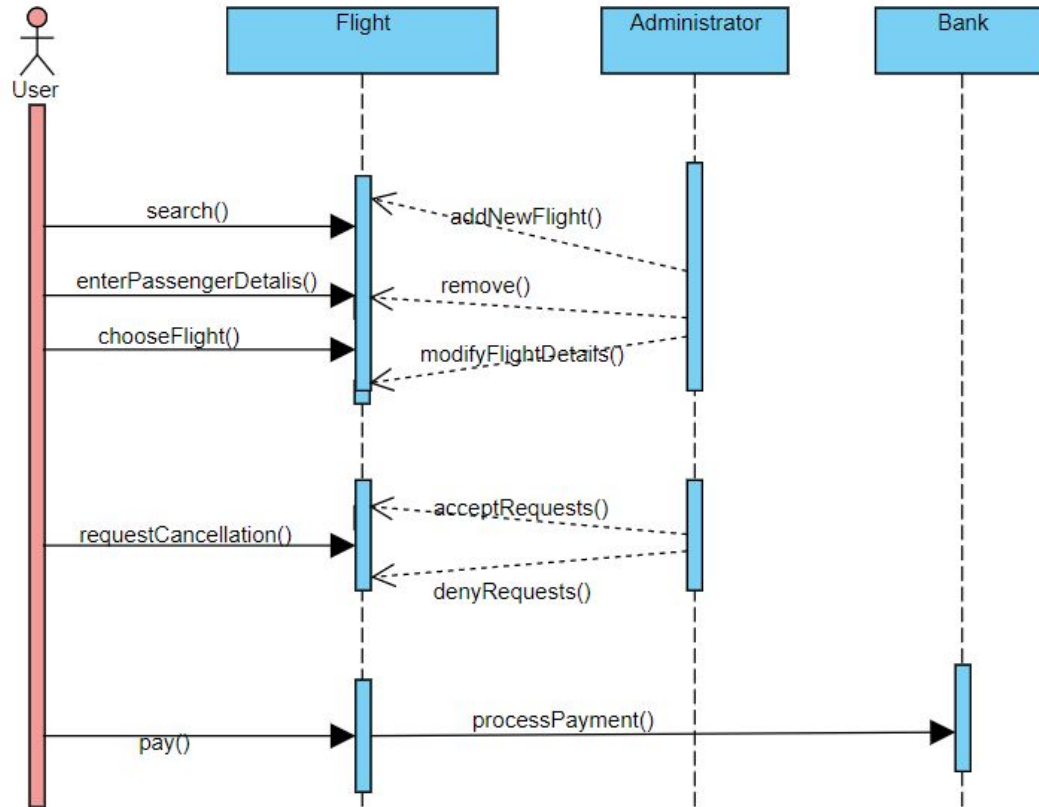
Level -2 DFD of online transaction



Level -2 DFD of web check-in



Sequence Diagram



3.3 Design Rationale

The algorithm is developed as flow chart and the data flow diagrams, to describe the stepwise procedure of the application. The requirements should all be covered in this algorithm.

6. HUMAN INTERFACE DESIGN

6.1 Overview of User Interface

When a user accesses the web application, he/she will see the home page, containing a search form, a list of cheap flights/ deals.

If the user does not have an account, he/she can sign up by clicking the Sign in/ Create an account button. This will redirect the user to the Register page. Otherwise, if the user already has an account, he/she can enter the username and password and the customer will be redirected to the Account page. Here, customers can see the list of their reservations. They can manage flights or request a cancellation.

When searching for a flight, an unregistered user can only see the duration and the remaining number of seats for the price. To complete a booking, the user needs to have an account. If that is the case, the user will be redirected to the Reservation page, where he/she will complete the required fields with the personal data of the passengers and payment details, as well as choosing the type of luggage. On this page they can also see a summary of the flight, including the number of seats, source and destination, baggage and price.

The web application will also have a Contact page, where users will be able to get in touch with the company, and a Blog page, where users will see the latest news.