Software Design Document

for

Airline Reservation System

Version 1.0

Prepared by

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Course: Software Engineering

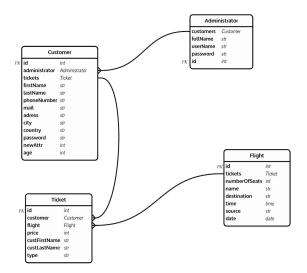
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4. DATA DESIGN

4.1 Data Description



4.2 Data Dictionary

Administrator:

- -fullName
- -userName
- -password

Methods:

- -Login()
- -AddFlight()
- -AcceptRequest()
- -DenyRequest()
- -GetFlightInfo()
- -CheckAvailability()
- -Logout()

Customer:

- -firstName
- -lastName
- -phoneNumber
- -mail
- -address
- -city
- -country
- -password
- -age

Methods:

- -SearchFlight()
- -SelectTicket()
- -BookFlight()
- -AddCardDetails()
- -Pay()
- -RequestForCancellation()
- -AddPassengerDetails()

Flight:

- -id
- -numberOfSeats
- -name
- -destination
- -time
- -source
- -date

Methods:

- -FlightDetails()
- -Availability()

Ticket:

- -id
- -price
- -custFirstName
- -custLastNAme
- -type

Methods:

-TicketDetails()

6. Human Interface Design

6.2 Screen Images

The user will see the home page when accessing the web application. (Figure 1)

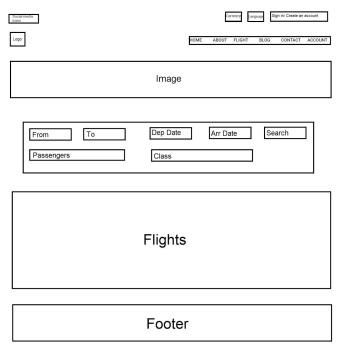


Figure 1

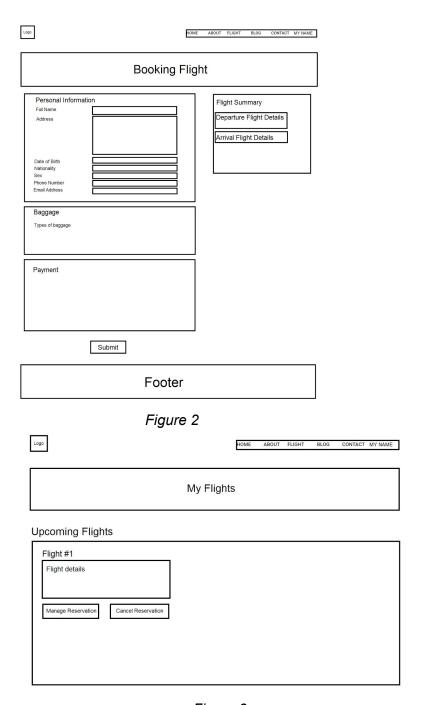


Figure 3

The user needs to have an account to be able to book tickets and manage reservations. The page where the customer will complete a reservation is shown in Figure 2. The customers will have a profile page where they can manage reservations (Figure 3).

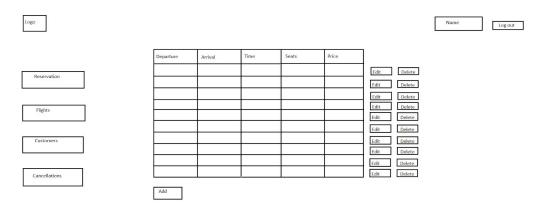


Figure 4

The interface of the administrator showing the list of flights. The administrator can add, edit and delete flights. He/ she can also see the list of reservations, clients and cancellations. (Figure 4)

7. REQUIREMENTS MATRIX

Scenarios:

- S1: Customer wants to search for flights.
- S2: Customer wants to see flight prices of different ticket types.
- S3: Customer wants to sort available flights according to price.
- S4: Customer wants to proceed to payment for booked flight
- S5: Customer wants to cancel his/ her booked ticket.
- S6: Administrator wants to modify the details about existing flights.
- S7: Administrator wants to remove cancelled flights.
- S8: Administrator wants to respond to cancellation requests of customers.
- S9: Administrator wants to log on the system.

Class/Sce narios	Customer	Ticket	Administrator	Flight	S1	S2	S3	S4	S5	S6	S7	S8	S9
SRS													
FR1	X												
FR2	X												
FR3	X				based_ on								
FR4	X					based _on	based _on						
FR5	X												
FR6	X								based_ on				
FR7	X							based _on					
FR8			X										
FR9			X										based_on
FR10			X							based _on	based_ on		
FR11			X									based_on	