Course: EECS 3461
Professor: Melanie Baljko
Assignment #: 02

Student 1: Akalpit Sharma (212650628)
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Component #: 03

AIR-LINE RESERVATION SYSTEM

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Component 3: Design, Component and prototyping

Specification

1. Prototypes created for the airline reservation system is very much useful for the purpose of discussing and then examining the ideas with the stakeholders.
2. The prototype of airline reservation system has the conceptual models. They are Interface metaphor, interaction type, interface type, activities it will support, functions, relationships between functions, and information requirements.
3. All the conceptual models play significant role in the system. Out of which, **the interaction type**, **activities it will support and the interface type are** designed in such a way that the user can have a user-friendly interaction type.

The interaction type used in the proposed Airline reservation system is “exploring”.

- Flight ticket booking is that much easier
- The system is user friendly and humans who have good taste will enjoy using the system and can easily access to any flight and book with full flexibility.
- The available seats will be viewed to the user
- The actions performed are responded quickly by the system and the user does not have to wait around the system.

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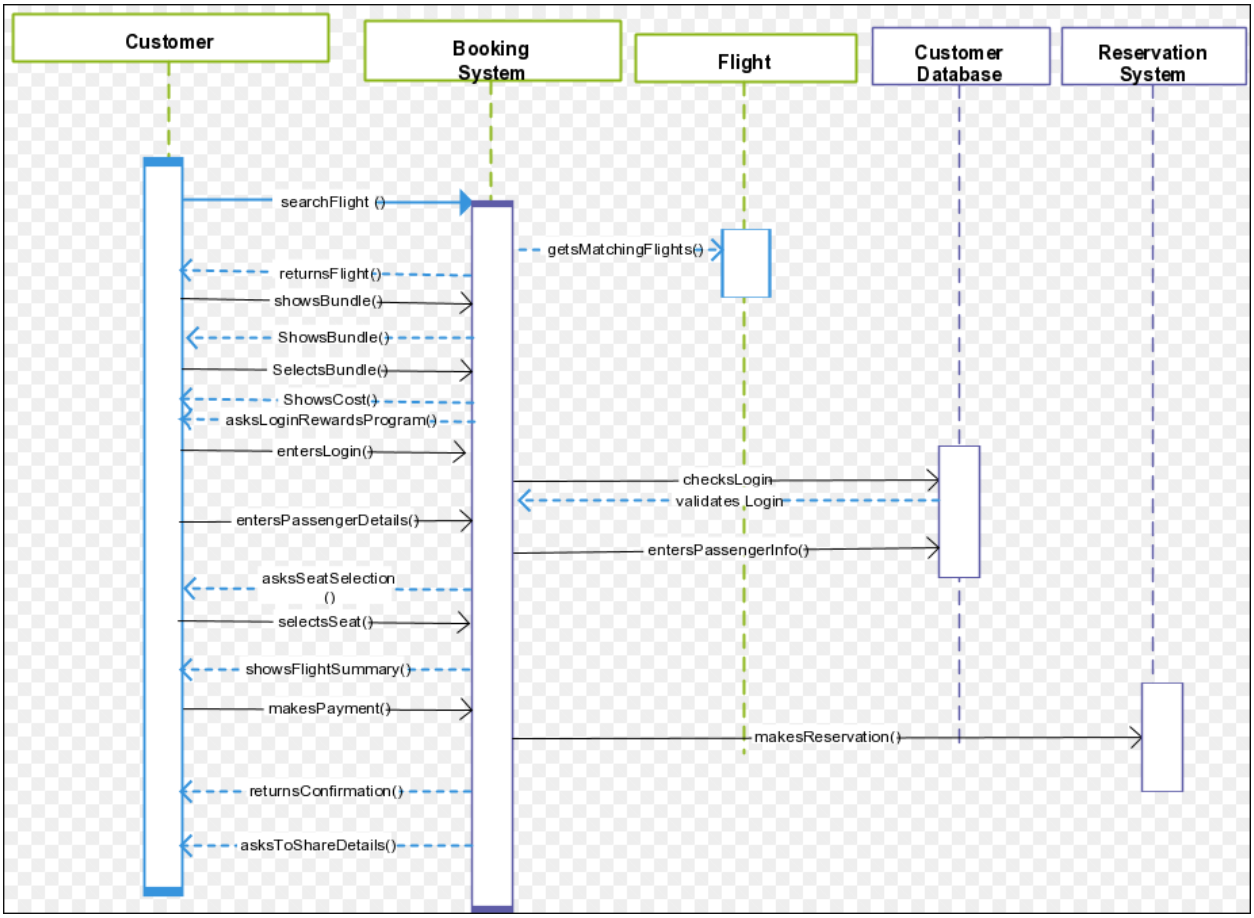


INTERACTIVE SYSTEM

Conceptual Design

The conceptual design gives the integrated ideas and the concepts of the implementation of the system is given. The conceptual design is framed so that the user can have a clear understanding of the system. The development of the designing of the airline reservation system involves in a specific methodology. Initial the design process of the model includes the requirement determination, all the requirements of the airline reservation system such as information regarding the processing of the system is gathered at this designing stage. The requirement gathering is the most crucial part of the system development. Secondly the requirement analysis a detailed specification regarding the functionality of the airline reservation system is collected. For clear

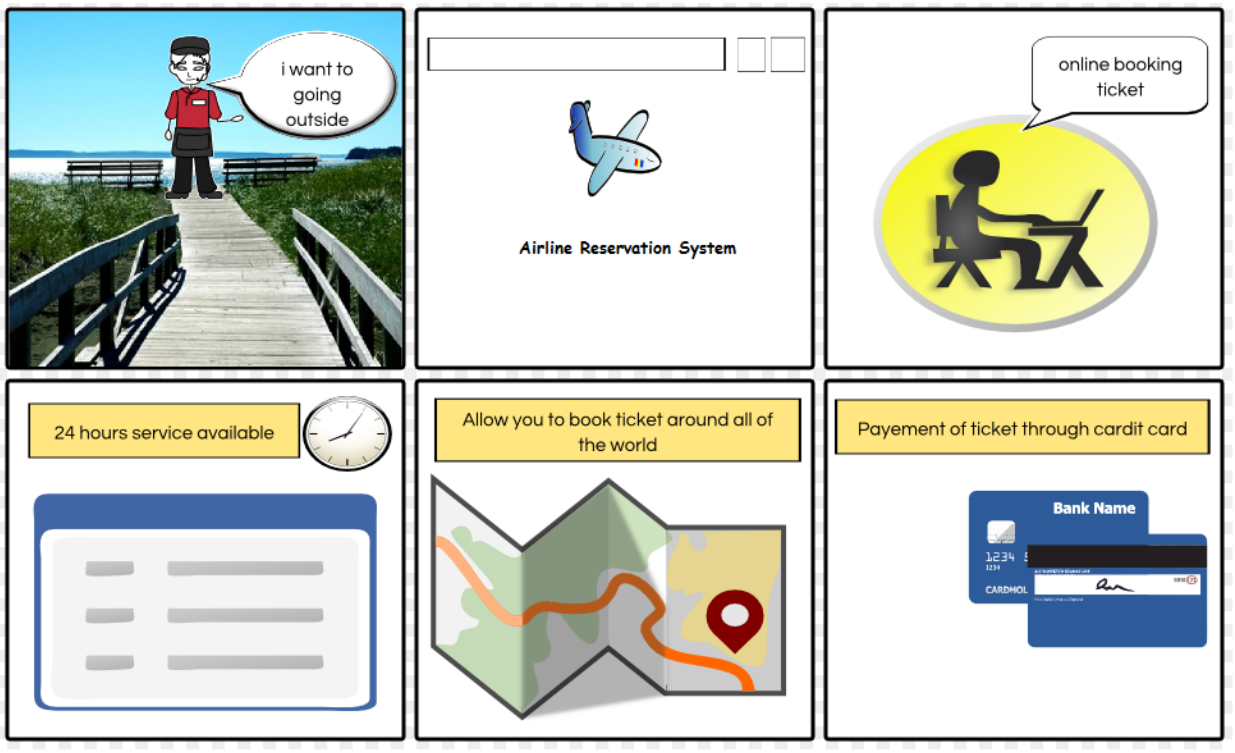
vision Entity Relationship diagrams and Data flow diagrams are used. Next is the designing of the system, this includes the modules, components, data, interfaces and architecture so that the specified requirements can be attained. Implementation is done by java. For the purpose to correct the errors and other mistakes the source code are tested on the basis of unit testing.

Requirement → Analysis → System Design → Implementation → Testing

SYSTEM DESIGN

Storyboard

The storyboard for the airline reservation system includes the sequence of drawing that shows the interactive system. This makes the system design and implementation much easier and faster.



STORYBOARD OF RESERVATION

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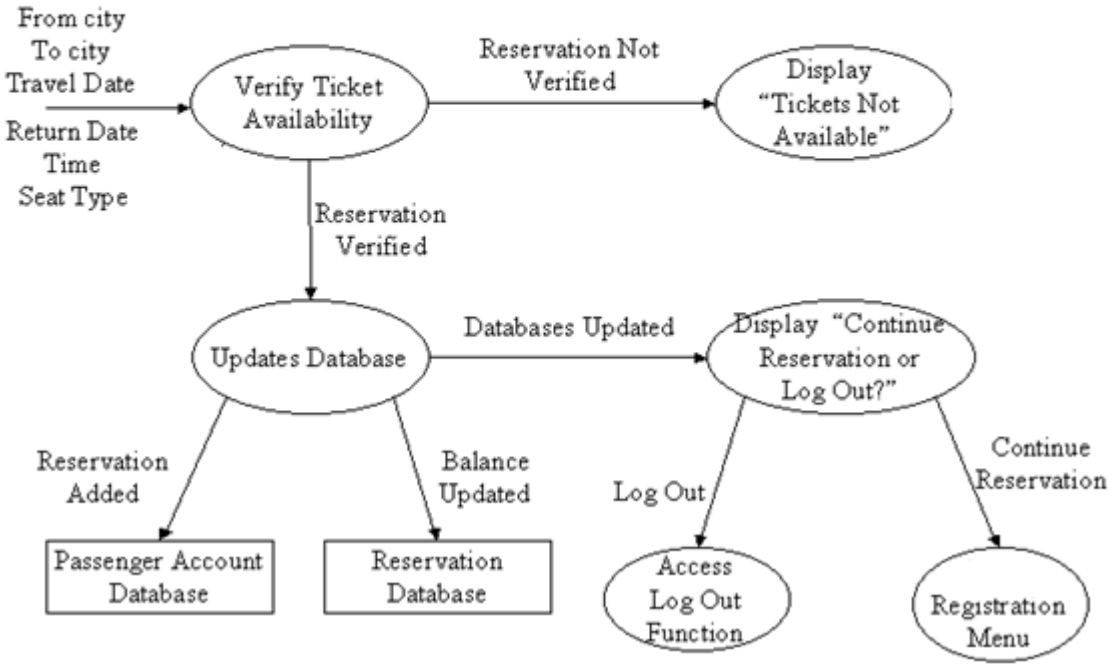
Card based Prototype

The prototype for the airline reservation system includes the following process. Initially a user account must be created for the ticket reservation. The user account registration requires the basic details of the user. After the registration a login account is created for the user. In the home page the arrival place, departure, travel date and return date is given to check availability of the ticket. The reservation database verifies the availability of the ticket and update the database. If the flight is not available the message is displayed to the user. If the ticket is available the reservation is continued and the next the payment for the journey is done and the payment can be done with the bank card.



PROTOTYPE FOR RESERVATION SYSTEM

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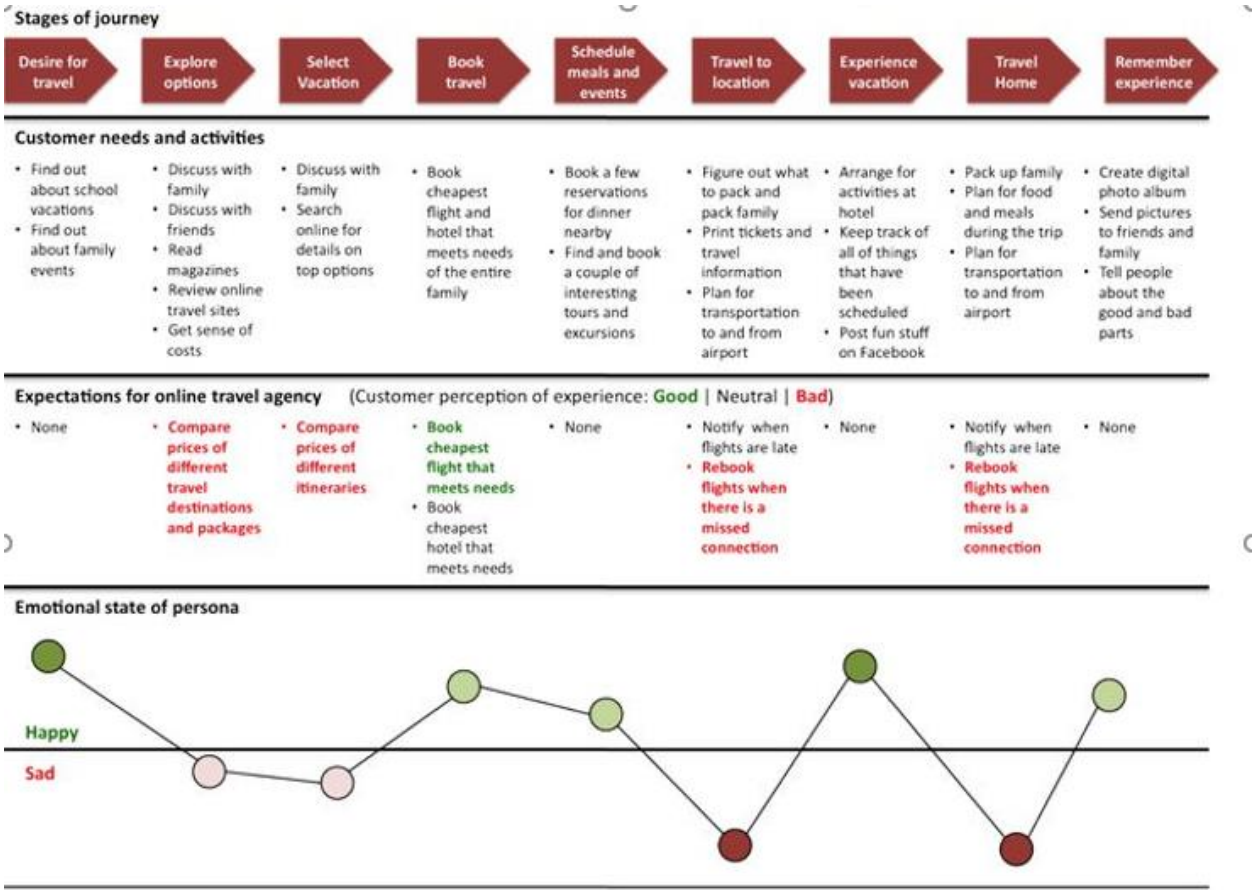
Questionnaire

The storyboard that is created for the reservation of the airline ticket is shown to the three potential users. A questionnaire is performed in order to get the feedback from them. The potential users are asked to make a selection of their choice form the list of given choices. The questionnaire resulted into a different view of the potential users about the use of the system. It provides a clear feedback related to the conceptual design.

Experience map and observations

The experience map is shown for the proposed Airline reservation system



EXPERIENCE MAP

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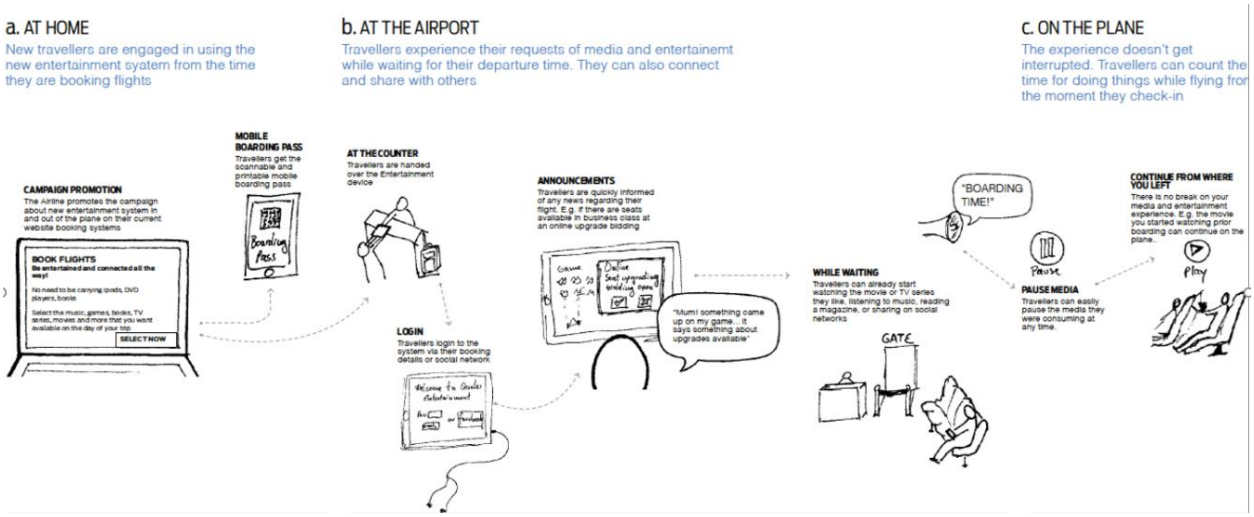
The observation of the airline reservation system is given as follows



OBSERVATIONS