#### **PROJECT SPECIFICATION**

**AIRLINE RESERVATION SYSTEM** This project represents the initial version of the Airline Booking system. All requirements listed here in describe a self-contained system.This project will allow a user to book flights, check flights, do account maintenance, and query flight information. The goal is to allow customers greater and easier access to the airline’s booking system, twenty-four hours a day.

**Login**

**Description:**

This function allows a registered user to login his account using his frequent flyer number with the airline and password. If a user is not registered, the website shall allow the user to enroll first. The system will check both the frequent flight number and password, when a user attempts to login.

**Enrollment**

**Description:**

This function allows unregistered user to enroll and to create a new account with the website. In order to create a new account, the user has to provide required information such as first name, last name,email address and password. Other optional information, such as phone number, credit card information and mailing address, can be provided during the registration process.

The system checks if all required data are provided and then will prompt the user to enter additional information, if required. After all required information is provided, the system auto-generates a unique frequent flyer number(USER\_ID) that the user must use as username for future authentications.

**Book Flights**

**Description:**The user can use the  
 Book Flights  
 function to purchase seats for an airplane flight. The system shall present the user with information on all current flights. The user may then select a pair (departure and return) of flights on which to purchase seats. The user can indicate the number of seats and placement of such. Finally, the system shall guide the user completely through the checkout process.

**Flight Status**

**Description:**

This section shall allow the user – whether enrolled or not – to view flight information that matches input criteria. The user will provide:

1. A flight number and Date OR

2. Departing/Arriving Cities and Date.

The system will display matching flight information including the following fields:

* Flight Number
* Departure City
* Arrival City
* Status (one of the following)

O In Flight

O At the Gate

O Delayed

O On Time

**Flight Schedules**

**Description:**

This section of the system shall allow a user to query flight schedules based upon simple input criteria. The user will provide departure and arrival cities, and a departure/return date. If any flights match the criteria, the system will display the following information:

* Flight Number
* Departing City & Date/Time
* Arriving City & Date/Time
* Number of Available Seats

The system shall define a “matching” flight as one that uses the departure/arrival cities at a flight time greater or equal to the time provided by the user. Otherwise, the system shall alert the user that no matching flights can be found.

**My Account**

**Description:**

This section gives the user the power to view, save, edit or delete the information stored in his/her account. The user can check his/her accumulated points, look at the status of a flight that was booked,cancel a flight that was already booked (optional) and change his/her address, phone number, email or password. This feature is not available for non-registered user.

**Logout**

**Description:**

The *Logout* section provides a way for the user to securely log out of the system. This process will save all user operations when he/she exits the system. If a user wishes to continue accessing the website,he/she must log-in again to access user features.