

Project Code:	SRS-01
Project Name:	Ship Reservation System

1 Introduction

XYZ Sea Travels Ltd. provides sea travel services to users (Customers) across the globe.

XYZ Sea Travels Ltd plans to develop "Ship Reservation System" - standalone/web application [Core Java Batches - Swing Application; J2EE Batches - Web Application], where users (Customers) can reserve ship tickets and manage their reservations.

Scope and Overview:

The scope of the Ship Reservation System (SRS) will be to provide the functionality as described below. The system will be developed on a Windows operating system using Java/J2EE.

2 Functional Requirements

The users of the 'Ship Reservation System' are:

1. Administrator – Add/Edit/Delete/View Ship, Route and Schedule details.
2. Customer – Reserve Ship Tickets and Manage Reservations Online.

Below sections 2.1 & 2.2 indicates application specific requirements; section 2.3 to 2.4 indicates requirements which are specific to particular types of users.

Please note that, against each requirement priority levels are indicated, where P1 indicates higher priority and P2 is referred as lower priority.

2.1 Authentication & Authorization

All users must be able to perform login and change password.

Requirement ID	Description	Priority
AA-001	All users (Administrator & Customer) logging into the SRS application should be authenticated using a unique login-id and password (operations to be supported based on type of user)	P1
AA-002	All users should be able to change their password	P2

2.2 Exit handlers

All users must be able to successfully exit from the application.

Requirement ID	Description	Priority
EX-001	The application should handle logout (close all open database connections, invalidate sessions, etc)	P1

2.3 Administrator

Administrator must be able to perform the below mentioned functionalities.

Requirement ID	Description	Priority
AD-001	The admin should be able to add ship details	P1
AD-002	The admin should be able to delete ship details	P1
AD-003	The admin should be able to view ship details	P1
AD-004	The admin should be able to modify ship details	P1
AD-005	The admin should be able to view details of passengers traveling on a particular ship on a particular date	P1

2.4 Customer

The customer must be able to perform the below mentioned functionalities.

Requirement ID	Description	Priority
US-001	The user should be able to register to 'Ship Reservation System'	P1
US-002	The user should be able to view ship/schedule details by source and destination	P1
US-003	The user should be able to reserve his/her ship tickets by making payment online	P1
US-004	The user should be able to cancel his/her ship tickets	P2
US-005	The user should be able to view his/her e-ticket	P1
US-006	The user should be able to print his/her e-ticket	P2

3 Non-functional Requirements

- The application should be intuitive to use and easy-to-maintain
- Designer/Programmer need to consider suitable conditions/constraints and assumptions¹
- The application should be able to handle simultaneous requests from multiple clients
- Upon installation, the administrator is expected to have default UserID and Password
- The system may force the administrator to change his/her password to a non-default one, upon initial login
- Upon installation, the application is expected to have a default 'CreditCardDetails' table with the credit card details of users (minimum 10 entries)

Target Environment:

- Intel hardware machine (PC P4-2.26 GHz, 512 MB RAM, 40 GB HDD)
- Windows Operating System
- Server – Apache Tomcat 6 or higher
- Database – Oracle 9i or higher
- JRE 1.6 or higher
- Eclipse IDE

4 Assumptions/Dependencies/Limitations

- The administrator can set the schedule for the ships on a **weekly** basis.
- The scope of the application is limited to only one country.
- The seats are assumed to be of one type (Non-AC) only.
- Booking of ships to be done one way
- Seat availability to be updated upon reservation/cancellation of tickets.

¹ RLL Facilitator need to clarify on assumptions if required beyond indicated in section 5