# **Software Requirements Specification (SRS)**

**Project Title:** Movie Ticket Booking Web Application  
 **Prepared By:** [Your Name]  
 **Date:** [15-May-2025]  
 **Version:** 1.0

## **1. Introduction**

### **1.1 Purpose**

The purpose of this document is to define the software requirements for the Movie Ticket Booking Web Application. The system allows users to book movie tickets based on selected ticket class, quantity, and optional promotional discounts.

### **1.2 Scope**

The system will:

* Allow users to select the number of tickets (1–10)
* Offer ticket classes via dropdown with prices
* Accept optional promo codes
* Apply discounts based on user registration and promo status
* Display booking summary with total, discount, and final price

### **1.3 Definitions**

| **Term** | **Definition** |
| --- | --- |
| Registered User | A user who selects "Yes" under registration status |
| Promo Code | A string input for applying a discount |
| Ticket Class | A category such as Regular, Silver, etc., associated with pricing |

## **2. Overall Description**

### **2.1 Product Perspective**

This is a standalone responsive web-based application developed using HTML, CSS, and JavaScript. No backend integration is required.

### **2.2 User Classes and Characteristics**

| **User Type** | **Description** |
| --- | --- |
| General User | Can book tickets, apply promo code |
| QA Tester | Uses black-box testing techniques to validate inputs and outputs |

### **2.3 Operating Environment**

* Browser: Chrome, Firefox, Edge
* Device: Desktop and Mobile

## **3. Functional Requirements**

### **FR1: Ticket Quantity Input**

* The system shall allow users to enter a number of tickets between 1 and 10.
* Validation shall be shown for values outside this range.

### **FR2: Ticket Class Selection**

* The system shall allow the user to select from predefined ticket classes:  
  + Regular - $500
  + Silver - $750
  + Gold - $1000
  + Platinum - $1500
  + VIP - $2000

### **FR3: User Registration Selection**

* The system shall allow the user to select “Yes” or “No” to indicate registration status.

### **FR4: Promo Code Application**

* The system shall accept an optional promo code input.
* If the user is registered and the promo is **PROMO2025**, a 30% discount is applied.
* If the user is registered but promo is invalid, a 10% discount is applied.
* If the user is unregistered but uses **PROMO2025**, a 5% discount is applied.
* If neither applies, no discount is granted.

### **FR5: Cost Calculation**

* The system shall calculate the total cost as price × quantity.
* Discount shall be applied based on logic above.
* The system shall show:  
  + Number of Tickets
  + Total Price
  + Discount Amount
  + Final Amount

## **4. Non-Functional Requirements**

### **NFR1: Usability**

* The UI should be intuitive and user-friendly.
* Error messages must be clear and immediate.

### **NFR2: Performance**

* The application should respond within 1 second of user interaction.

### **NFR3: Reliability**

* The application must handle unexpected inputs and not crash.

### **NFR4: Portability**

* The application must work on all modern browsers and be responsive on different devices.

## **5. External Interface Requirements**

### **5.1 User Interfaces**

* HTML form-based interface with the following fields:  
  + Number of Tickets (input)
  + Ticket Class (dropdown)
  + User Registration (dropdown)
  + Promo Code (text input)
  + Booking Button
* Result section to display output

### **5.2 Software Interfaces**

* No backend/API involved (client-side only)

## **6. Future Enhancements**

* Add login system and user profile
* Enable seat selection
* Backend integration for payment
* Admin dashboard for managing bookings

## **7. Appendix**

### **A. Tools Used**

* HTML5, CSS3, JavaScript (Vanilla)
* Browser Developer Tools for testing

### **B. Promo Codes Used**

* PROMO2025