**Problem Statement**

**1. PROJECT PURPOSE**:

1. The document describes the software requirements and specifications for Movie Booking System.
2. It is expected by the web user of the Movie ticket booking System to have basic knowledge about operations performed in the system.
3. The purpose of movie ticket booking system is to manage the details of booking seats, customer, movie, shows.

**2. FUNCTIONALITIES OF THE SYSTEM:**

These functionalities have been implemented in the program:

1)Main Menu

* 1. Movie Booking:
     1. Member Login
     2. Available Movies
     3. Select Movie
     4. Select Timings
     5. Select no of seats
     6. Select Payment
     7. Movie Booking
  2. Ticket cancellation
     1. Cancel movie by ticket number
  3. Membership
     1. New member Register
     2. Renewal membership
  4. Admin
     1. Login
     2. Add movies
     3. Delete movies
  5. Exit

**3. NON-FUNCTIONAL REQUIREMENTS: -**

1. **PERFORMANCE REQUIREMENTS: -**

* The system must be able to perform smoothly without any interruptions.
* There should be minimum interruptions in connectivity.

1. **SAFETY REQUIREMENTS: -**

* The Movie Booking System’s Seat Selection & Payment Procedure should be given full protection in order to avoid any data being hacked.
* Also the data should not be altered in any way in the Database as all the customer information & booking information is stored there.

1. **SECURITY REQUIREMENTS:-**

* All data in the Customer Database should be backed up in case the of data loss.
* Admin must use secure connection while logging in.
* Admin must not disclose his password to anybody.

1. **SOFTWARE QUALITY ATTRIBUTES:**

* The flow of the system should be as proposed.
* The Customer Database and the Payment Database should be connected as information from Customer Database will be needed for Payment.

**4. OPERATING ENVIRONMENT:**

Operating environment for movie ticket booking system are:

* Operating system: Linux
* Platform: Ubuntu/C++

**5. UNIT TEST:**

1.Member:

SR1-UT1: Provide valid Name email-id

SR2-UT2: Provide valid phone number.

SR3-UT3: provide valid IC number.

SR4-UT4: provide valid password.

2. Booking:

SR5-UT5: provide valid payment option

SR6-UT6: valid Time Check for shows.

SR7-UT7: Member Account number check

SR8-UT8: Seat class selection.

SR9-UT9: Row and column selection of booking seats.

SR10-UT10: Renewal year selection.

SR11-UT11: Member Login

3.Admin:

SR12-UT12: Admin valid username and password.

SR13-UT13: Admin feature selection for add new movies and delete movies

**6. FLOW DIAGRAM**

Register

Register

login

1.Add Movie

2.Delete Movie

Renew Membership

Existing member

Log Out

1.Enter ticket number

2.Cancel Ticket

1.View Movies

2.Select Movie

3.Select Show

4.Select Seats

5.Select Payment

6.Back

Exit

Admin

Membership

Ticket Cancellation

Movie Booking

Main Menu

yes

login

NO No

Yes Yes

1. Start

This is the start block which indicates the start of the program.  
It will allows to enter the main menu .

1. Main Menu

It consists of Movie booking, Ticket Cancellation, Membership, Admin, exit.

1. Movie Booking:

This is the module used for the booking the movies from the available list of the movies.

After selecting the movie, it shows select timings of the movie and select number of seats

Select row and column and choose payment option.

1. Ticket cancellation:

In this module the ticket will be cancelled for the selected movie with ticket number.

1. Membership/user login:

If the member is new user has to enter name, email-id, phone number, account number,

and to create password. If the enter details are valid the new user become a member.

In this module the member can renew the membership by entering account number and password, if he is existing user and extend 1,2,3 years.

1. Admin:

In this module admin can login with validate user name and password.

Admin can able to modify the list of movies by adding or deleting the movies and can update the movies by adding show timings and movie name.

1. Exit:

This ensures that the program has terminated.

**7. CONCLUSION:**

The project Movie ticket booking System, provides the customer with a hassle-free service for booking movie tickets online and avoids standing in a long queue and provides the customers facility to book tickets for movie online and gather information about the movies and its timings.