

1. Introduction

1.1 Purpose

- The purpose of this document is to present a detailed description of the online movie ticket booking system. It will explain the purpose and features of the system, the interface of the system, what the system will do, the constraints under which it must operate. This document is intended for both the client and the developers of the system.

1.2 Document Conventions

- Titles that are intended to stay in as part of your document are in bold and in size of 14 pixels.
- Plain text is used where you might insert wording about your project in size of 12 pixels.

1.3 Intended Audience and Reading Suggestions

- This document is intended for project manager, client, developers, testers and also beta users. The rest of the SRS contains the all requirements of clients and organized in module wise. We suggest that clients have to read all requirements in SRS, and beta users have to read documentation carefully.

1.4 Product Scope

- This online website will used for booking the movie ticket online .This website is providing more comfort for those who are want to book movie ticket this will helps the consumer in a way that he can book ticket of movie online rather to going offline theater and this website provide the information about the movie also.

2. Overall Description

2.1Product Perspective

- The system will consist of a web portal. The web portal will be used to maintain reports regarding the lists of movies and theaters and shows the movie according to the theaters for booking a ticket. There will be three major components. Admin, Customers, Theater.

- The web pages (HTML/JSP) are present to provide the user interface on the client side. Communication between customer and server is provided through HTTP/HTTPS protocols.

2.2 Product Functions

- Customers can get information about the movies.
- Customers can book the movie ticket.
- Customers can order snacks.
- Customers can Adjust Tickets.
- Customers can swap ticket.

2.3 User Classes and Characteristics

- User Characteristics The customer should have the basic idea to surf an online website. Default Language is English.

User Classes

- Customer
- Administrator (Admin)
- Theater Manager

2.4 Operating Environment

- This Software is a web based software.the software is implemented using various technologies like HTML, CSS, ReactJavascript, ExpressJavascript, NodeJs, mongodb....etc.

3. External Interface Requirement

3.1 User Interfaces

- The system is web application so the UI is user friendly,simple and clear, and also easy to read and understand.

3.2 Hardware Interfaces

- In our system there will be no hardware interface.

3.3 Software Interfaces

- In this system we will use mongodb for database and nodejs for the backend support and HTML,Css, ReactJavascript like technologies for frontend support.

4. Software Requirement Specifications

1. Customer Management

1.1 Login/register/Logout

1.1.1 Customer Login

- **Description:** customer has to login for using most of the functionality of the site.
- **Input:** username and password.
- **Output:** success or failure.
- **Precondition:** Customers must be registered on the website.
- **Postcondition:** Customers are logged in to the website.

1.1.2 Customer Registration

- **Description:** if the Customer hasn't registered in the website then the customer can register via this functionality. The customer can do that and it is necessary to register on the website for using further functionality.
- **Input:** Customer's own Details 6 Online movie ticket booking system
- **Output:** Customer will be successfully register on website
- **Precondition:** Customer has not register before
- **Postcondition:** Customer will be redirected login page.

1.1.3 Logout/Signout

- **Description:** customer can end the session with this functionality.
- **Input:** request for logout.
- **Output:** customer will be logged out.
- **Precondition:** customer must be logged in.
- **Postcondition:** customer will be redirected to home page.

1.2 Profile Management

1.2.1 Profile Overview

- **Description:** if Customer wants to see their profile he can do this with this functionality.
- **Input:** request for seeing profile
- **Output:** Profile of Customers
- **Precondition:** Customer has to login
- **Postcondition:** Customer will be redirected to profile page.

1.2.2 Update Profile

- **Description:** if Customer wants to Update their profile he can do this with this functionality.
- **Input:** request for Update profile
- **Output:** Profile of Customer
- **Precondition:** Customer has to login
- **Postcondition:** Customer will be redirected to profile page.

1.2.3 history of tickets

- **Description:** Customer can see booking history with the help of history of tickets functionality.
- **Input:** request for seeing History
- **Output:** History of Ticket booking
- **Precondition:** Customer has to login
- **Postcondition:** Customer will be redirected to Booking history page.

1.3 Help & support.

1.3.1 Ask Query

- **Description:** customers can ask any query related to the system and if a customer is facing any trouble then they can ask a query about this.
- **Input:** Query
- **Output:** Answer of Query
- **Precondition:** customer must be logged in.
- **Postcondition:** customer will be redirected to home page

2. Ticket Management

2.1 Book Tickets

- **Description:** This is the main functionality of the system. By this functionality customers can book tickets for the movie. But for confirming tickets customer has to pay for that they will be redirected to Make payment page.
- **Input:** request for booking tickets & other necessary details for booking tickets.
- **Output:** confirmation message
- **Precondition:** user must be logged in.
- **Postcondition:** customers will be redirected to make a Payment page.

2.2 Adjust Your Ticket

- **Description:** After purchase ticket if user is unable to go at that time so he/she can adjust his/her ticket mean sell ticket through website if someone is ready to purchase a ticket for that time and day.
- **Input:** Movie name, User Phone Number, Seat Number etc.
- **Output:** if all Information is correct then request is shown on flip function
- **Precondition:** user must be logged in.
- **Postcondition:** customer redirect to flip functionality.

2.3 Ticket Cancellation

- **Description:** Customers can cancel a ticket by this functionality, but cancelation charges can be applied as per the rule.
- **Input:** request for cancelling the tickets.
- **Output:** conformation of the cancelation of the tickets.
- **Precondition:** Customer must be logged in and Customer has booked a ticket.
- **Postcondition:** Customer gets the message of conformation and redirected to home page.

2.4 Swap Tickets.

- **Description:** If a user wants a seat number that ticket is already booked for another user so a user who wants a desired seat number

he/she can ping a request to the owner of that ticket and the owner replies according to his/her condition.

- **Input:** Movie name, User Phone Number, Seat Number etc.
- **Output:** if all Information is correct then request is shown on flip function
- **Precondition:** user must be logged in.
- **Postcondition:** customer redirect to flip functionality.

3. Feeds and Payments

3.1 Movie Feeds.

- **Description:** customers can see the latest movie list and also can see the all the movie list and also can see the description about movies.
- **Input:** select movie for seeing description about movies.
- **Output:** list or all description about movies.
- **Precondition:** it is not compulsory to login into the system.
- **Postcondition:** movie list and if customer wants to see description then description will be shown.

3.2 Search Movie

- **Description:** if the customer wants to find a specific movie then by search option the customer can do that.
- **Input:** movie name or other details
- **Output:** if the movie is in the database then it will be shown.
- **Precondition:** it is not necessary to login into the system.
- **Postcondition:** searched movies will be shown to customers if it is available in the database.

3.3 Payment Gateway

- **Description:** for confirming the ticket Customer has to pay the tickets cost by this functionality they can do payment online.
- **Input:** required information for making payment.
- **Output:** success message of payment and conforming message of tickets.
- **Precondition:** user must login and select ticket for booking.
- **Postcondition:** customer will be redirected to confirmation of ticket message.

4. Book a Snack

4.1 Order Your Snacks.

- **Description:** A customer can order a snack according to his/her convenience.
- **Input:** Desired Snacks and ticket details.
- **Output:** success or failure.
- **Precondition:** customer must be logged in and have a ticket.
- **Postcondition:** customer must have to save that receipt of order.

5. Theater's Management

5.1 Login/register/Logout

5.1.1 Theater's Login

- **Description:** Theater's Manager can login with username and password.
- **Input:** username and password.
- **Output:** success or failure.
- **Precondition:** Theater must be registered on the website.
- **Postcondition:** Theater is logged in to the website.

5.1.2 Theater Registration

- **Description:** if the Theater's Manager hasn't registered in the website then the Theater can register via this functionality.
- **Input:** Theater's own Details
- **Output:** Theater will be successfully register on website
- **Precondition:** Theater has not register before
- **Postcondition:** Theater will be redirected login page

5.1.3 Logout/Signout

- **Description:** Theater's Manager can end the session with this functionality.
- **Input:** request for logout.
- **Output:** Theatre will be logged out.

- **Precondition:** Theatre must be logged in.
- **Postcondition:** Theatre will be redirected to home page

5.2 Profile Management

5.2.1 Record of Booked Tickets

- **Description:** by this functionality Theater's Manager can see how many tickets are booked(sold) for any particular movie at any particular date.
- **Input:** request for seeing Booked(sold) tickets.
- **Output:** List of booked tickets.
- **Precondition:** Theater must be logged in.
- **Postcondition:** Theater will be redirected to a page where all lists of Booked tickets for any particular theater will be shown.

5.2.2 Theater's Profile Management

- **Description:** Update necessary details related to Number of Screen, Timings and location.
- **Input:** username and password.
- **Output:** success or failure.
- **Precondition:** Theater must be registered on the website.
- **Postcondition:** Theater's Manager will be redirected to profile page.

5.2.3 Profile Overview

- **Description:** if Theater's Manager wants to see their profile he can do this with this functionality.
- **Input:** request for seeing profile
- **Output:** Profile of Theater's Manager.
- **Precondition:** Theater's Manager has to login
- **Postcondition:** Theater's Manager will be redirected to profile page.

5.3 Timetable

5.3.1 Timetable Management for Movies.

- **Description:** A Theater's Manager manages the timetable for movies can add or update a movie time and Ticket Details are reflected to the end-user.
- **Input:** Timetable for movies
- **Output:** success or failure.
- **Precondition:** Theater's Manager must be registered on the website.
- **Postcondition:** Theater's Manager is logged in to the website.

6. Admin Management

6.1 Login/Logout

6.1.1 Admin Login

- **Description:** Admin can login with username and password.
- **Input:** username and password.
- **Output:** success or failure.
- **Precondition:** Admin must be registered on the website.
- **Postcondition:** Admin is logged in to the website.

6.1.2 Logout/Signout

- **Description:** Admin can end the session with this functionality.
- **Input:** request for logout.
- **Output:** Theatre's admin will be logged out.
- **Precondition:** Admin must be logged in.
- **Postcondition:** Admin will be redirected to home page

6.2 Admin Support

6.2.1 User Queries

- **Description:** By this functionality admin can see the customer's query and reply according to the convenience.

- **Input:** request for seeing query.
- **Output:** Customer's Query.
- **Precondition:** admin must be logged in.
- **Postcondition:** admin will be redirected to the page where the query will be shown.

6.3 Check Details

6.3.1 See Customer's details

- **Description:** By this functionality admin can see all the customer's details.
- **Input:** request for seeing customer's details.
- **Output:** Customer's details.
- **Precondition:** admin must be logged in.
- **Postcondition:** admin will be redirected to the page where customer's details will be shown.

6.3.2 See Theater's details

- **Description:** By this functionality admin can see all the Theater's details.
- **Input:** request for seeing Theater's details.
- **Output:** Theater's details.
- **Precondition:** admin must be logged in.
- **Postcondition:** admin will be redirected to the page where Theater's details will be shown.

6.3.3 See Booked (Sold) tickets

- **Description:** by this functionality Admin can see how many tickets are booked(sold) for any particular movie at any particular date at particular theater.
- **Input:** request for seeing Booked(sold) tickets.
- **Output:** List of booked tickets.
- **Precondition:** Theater must be logged in.
- **Postcondition:** Theater will be redirected to a page where all lists of Booked tickets for any particular theater will be shown.

6.4 Movies Management

6.4.1 Add movie and their details.

- **Description:** By this functionality admin can add the movie on site and add the required information about the movie also like description, language etc.
- **Input:** information of movie.
- **Output:** movie will be added successfully.
- **Precondition:** admin must be logged in.
- **Postcondition:** admin will be redirected to admin's home page.

6.4.2 Remove Movie

- **Description:** By this functionality admin can remove any movie from the database.
- **Input:** request for removing data.
- **Output:** movie will be removed successfully.
- **Precondition:** admin must be logged in.
- **Postcondition:** admin will be redirected to admin's home page

5. Other Non-functional Requirements

5.1 Performance Requirements

- systems should be able to handle more traffic on the website. The system will support multiple users at a time.

5.2 Safety Requirements

- The System will assure that no theater and customer can register more than one time. The System should provide safety of data.

5.3 Software Quality Attributes

System should be-

- Robust
- Flexible

- User friendly
- Safe and Secure
- Upgradable
- Consistent in performance