Aim: Write down SRS for your Project Definition. (Core-functions, non-function)

ONLINE MOVIE BOOKING SYSTEM

Core Functional Requirements.

R.1- Visitor/Registered user:

R.1.1:-REGISTER

Description: The new user/customer first needs to register himself/herself to use the functionality provided.

Input : Personal Details. i.e- email,phone number, name, DOB.

R.1.2:- LOGIN

Description: The user needs to first login into the application.

Input: Username and Password.

R.1.3:- SELECT CITY AND LANGUAGE

Description: The client needs to select the city and prefer language.

Input : User Selection.

R.1.4:- SELECT THEATER AND SHOW.

Description: The user needs to select the theatre and show. He /she can enjoy watching the trailer for the movie.

Input : User Selection.

R.1.5:- AVAILABLE SEATS

Description: The user can see the seating map and select available seats.

Input : User Selection.

R.1.6:-PAYMENT

Description: The user can make payment via wallets(Paytm, Amazon Pay), Debit Card, and Credit Card.

R.1.7:-CANCEL BOOKING

Description: If a user tends to cancel his/her ticket, we have provided a functionality to cancel the ticket. Users can only cancel his/her ticket for 2 hrs, prior to the movie start time.

R.1.8:-GIVE FEEDBACK

Description: We have provided the functionality to customers that they can give feedback(star rating) so that we can improve!

R.2- Admin(Who is responsible to update the portal):

R.2.1. LOGIN

Description: The admin needs to login into the application.
Input: Username and Password.

R.2.2. PROVIDE AUTHENTICATION

Description: The manager will check all the details of the, and he will also have the authority to allow seat number to the viewers at the time of registration for movie ticket booking. (username and password).

R.2.3. UPDATE SHOW DETAILS

Description: The admin updates various necessary details of the show and the details about upcoming movies.

R.2.4. DATABASE-MANAGEMENT

Description: Admin manages the database of booking details for a particular show and also the details of the registered users.

R.2.5. CHECK BOOKING STATUS

Description: The admin can cancel the show if a certain necessary condition is not fulfilled.

R.2.6. SEND CONFIRMATION MESSAGE

Description: After verifying the details of the user admin sends the confirmation mail to the User. After verifying the payment details admin sends the booking confirmation message to the user via SMS and/or email.

NON-FUNCTIONAL REQUIREMENTS: -

1. Reliability -

The system provides storage of all databases on redundant computers with automatic switchover.

The reliability of the overall program depends on the reliability of the separate components. The main pillar of the reliability of the system is the backup of the database which is continuously maintained and updated to reflect the most recent changes.

Thus the overall stability of the system depends on the stability of the container and its underlying operating system.

2. Availability -

The system should be available at all times, meaning the user can access it using a web browser, only restricted by the downtime of the server on which the system runs. In case of any hardware failure or database corruption, a replacement page will be shown. Also in case of a hardware failure or database corruption, backups of the database should be retrieved from the server and saved by the administrator. Then the service will be restarted. It means 24 X 7 availability.

3. Security -

The system uses SSL (secured socket layer) in all transactions that include any confidential customer information.

The system must automatically log out all customers from their accounts after a period of inactivity or if the user forgot to logout. The system's back-end servers shall only be accessible to authenticated administrators. The system should not leave any cookies on the customer's computer containing the user's password.

Sensitive data will be encrypted before being sent over the internet.

4. Maintainability -

A commercial database is used for maintaining the database and the application server takes care of the site. In case of a failure, a re-initialization of the program will be done. Also, the software design is being done with modularity in mind so that maintainability can be done efficiently.

5. Performance -

The product shall be based on the web and has to be run from a web server.

The product shall take initial load time depending on internet connection strength which also depends on the media from which the product is run.

The performance shall depend upon hardware components of the client/customer

6. Portability -

The application is HTML and scripting language-based. So The end-user part is fully portable and any system using any web browser should be able to use the features of the system, including any hardware platform that is available or will be available in the future. The system shall run on PC, Laptops, and PDA etc.

7. Back up -

We will take a backup in our system database. In order to enable the administrator and the user to access the data from our system!

8. Accessibility -

The system will be a web-based application and it is going to be accessible on the web browser.

The system would need to be highly concurrent. There will be multiple booking requests for the same seat at any particular point in time. The service should handle this gracefully and fairly. The core of the service is ticket booking, which means financial transactions. This means that the system should be secure and the database ACID compliant.