**Software requirement**

**Specification**

**Version 1.0**

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**A projects REPORT ON**

MOVIE WORLD

**Online movie reservation**

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**1. INTRODUCTION**

*This document describes the software requirements for “online movie reservation” system. The final product will contain all features and functions as mentioned in this document. Software requirements specification states the goals and objective of the software.*

**1.1 PURPOSE:**

*This software requirements specification provides complete description of all function and specification of online movie reservation system. This project “MOVIE WORLD “is aiming towards presenting an easier and better way to book a ticket for movie and searching a theatre.*

*So that they can relief from the long rows while booking movie tickets. Each and every aspects of the system is considered in details. This is an online website on which user as well as theatre owner registers themselves. User uses this site to book tickets for particular movie.*

*Intended audience for the SRS is development team, testing team*

*and end user of the product.*

**1.2 Scope of Development Project:**

*The scope of our website “MOVIE WORLD “is defined as:*

* *To book tickets on internet.*
* *Customer should be able :*

1. *To create a new account for ticket booking.*
2. *To book tickets only 3 days before the show.*
3. *To choose the available seats.*

* *To minimize the number of staff at the ticket counter*
* *To provide information about running movie as well as upcoming movie.*
* *An e-mail confirmation should be sent to person after*

*ticket booking.*

* *Before 1 hour of the show online booking will not be*

*allowed.*

* *To provide facility of changing password.*
* *Website is showing the fare for all tickets classes and the*

*total amount to be paid for selected seats.*

* *User will not to be allowed to cancel tickets once*

*Booking is confirmed.*

**1.3 DEFINITION, ACRONYMS AND ABBREVIATIONS**

***DEFINITION:***

*The idea behind “online movie reservation System” is to allow general public to buy movie tickets through our website on internet. This is an online website on which user as well as theater owner register themselves and theater owner can use this site to update movies on the site.*

HTTP: *Hypertext Transfer Protocol is a transaction oriented client/server protocol between web browser & a Web Server*.

HTTPS: *Secure Hypertext Transfer Protocol is a HTTP over SSL (secure socket layer).*

TCP/IP: *Transmission Control Protocol/Internet Protocol, the suite of communication protocols used to connect hosts on the Internet.TCP/IP uses several protocols, the two main ones being TCP and IP.*

*RAM: Random Access Memory*

*SRS: Software Requirements Specification*

*IEEE: Institute of Electrical and Electronics Engineers*

*MS SQL: Microsoft SQL (Structured Query Language).*

*ADMIN: Administrator*

***1.4 REFERENCES:***

**BOOKS:**

* *Roger S. Pressman. Software Engineering: A Practitioner Approach, McGraw Hill, 2001.*
* *IEEE Recommended Practice for Software Requirements Specification(IEEE Std 830 -1998)*

***1.5 OVERVIEW:***

*The rest of SRS contains two sections, the first one provide a brief description of software, assumptions, constraints etc. it lists all the functions performed by the system.*

*The next section is concerned with the details of System functions and action in detail for the software development. This document contain interface, product function etc.*

**2. OVERALL DESCRIPTION**

*The website can be accessed by following:*

* *Administrator: whole charge of system will be on ADMIN. They have all access rights. They are responsible for updating movie information (create, delete or modify the show time and schedule).*
* *Theatre Owner : if a theatre owner wishes to join our site ,then*

*he may be registered by filling out a form, providing details like theatre name, number of shows and timings, and other movie details.*

* *External User: These are the people that are not registered, but*

*They can only view some basic information of movie. They can*

*fill a registration form in order to become a member.*

* *Customers: they are registered on our site. They need to login to the system in order to view movie information, seat plan, select the seat and buy the tickets online using credit cards.*

**2.1 PRODUCT PERSPECTIVE:**

*Online Movie Reservation is web based software product.*

*The following block diagram shows overall hierarchy of the functions of this system.*

User ID, Password

Customer

Admin ID, Password

Administrator

Booking info

Maintenance, Updating Website

Update Profile

Comment for feedback

Comment for feedback

Register

Visitors

***2.1.1* User Interface:**

*This application will be user friendly and menu based.*

***2.1.2* HARDWARE AND SOFTWARE REQUIREMENTS:**

HARDWARE SPECIFICATION:

Processor : Intel P-III based System

Processor Speed : 250 MHZ to 833 MHZ

RAM : 512 MB to 1GB

Hard disk : 20 GB to 30 GB

SOFTWARE SPECIFICATION:

Language : C#

Platform : .NET

Database : MSSQL

Operating System : Any Windows from 2000 onwards.

Server : IIS

RAM : 512 MB

**Front End Used:**

*C# is a development environment that runs under Microsoft visual studio. In this project Microsoft visual 2008 are used. Visual C# is used in many ways and at many levels from novice programmers to expert programming. Visual C# language is having many faces. One is visual, which comprises of object and tools that easily assembles them in to a modern window interface.*

*Another face is the visual C# language, which is an outcome of original language.*

**Back End Used:**

*In this project we will use the SQL Server as the Back End*. It is *designed to build &manage and to perform other data related work SQL server provides powerful ease to use database that will serve our needs when we require the powerful relational database.SQL is helpful to create a variety of database as well as how to enter, edit data in existing database.*

**2.1.3 Communication interfaces:**

*Every client system connected through internet establishes a Communication only with the server and not with any client system. The required communication interfaces are:*

* HTTP
* TCP/IP

**2.2** **System Environment**:

* *The users (Administrator, Customer and External user) can log in to the system to perform different operations.*

*Administrator, Customer , user*

* *The Admin can use the system to modify data (e.g. movie description) to the database.*

Admin

* *The customer and theatre owner can modify their own data.*
* *The timing of the shows is set by the theatre owner.*
* *Any corporate/Institute/Organization can book tickets in bulk (Minimum tickets will be 80).*
* *Get feedback from the customers.*
* *Provide reviews of the movie.*

*The following figure represents the functionalities of the product-*

# 

Authorization

Ticket booking

Instant ticketing

**Administrator**

**Administrator**

Feedback

Registration

**customer**

**External user**

**2.3 User Characterstics:**

*The user types that would use the “MOVIE WORLD “are:*

**Administrator:** *Administrator can easily do anything on the site, in all pages. Administrator is responsible for updating and maintaining the web site.*

**Customer:** *Customer is people who must have to register themselves to use “MOVIE WORLD “. To use the service people should have a basic computer using ability*.

**External User**: *External users are people who have not got any user account for website.They can access only general information*.

**2.4General Constraints:**

*General constraints that must be followed for efficient use of system are:*

**Regulatory policies:** *It is**a mandatory that no text box must be left empty or contains insufficient data.*

**Control function:** *The software must be very user-friendly and display appropriate error messages*.

**Reliability Requirements:** *Data redundancy and use of special/blank character must be avoided.*

**Higher Order Language Requirements:** *The server application should be available 365 days 24x7.*

**Security and Safety Issues:** *Username, password both are considered as security issues.*

**2.5 Assumptions and Dependencies:**

1. *The user must be able to use internet.*
2. *User must have connected to internet to use the system.*
3. *The computer must be Windows 95 or later version platform.*
4. *The TCP/IP protocol must be installed to communicate through HTTP/HTTPS messages.*
5. *Accuracy of the information of the user is the responsibility of the user itself.*
6. *User can give comments and feedback about his experience on the site.*

**3. SPECIFIC REQUIREMENTS:**

*Specific requirements are specified from developer’s point of view. Here we specify the requirement in a detailed format so that it becomes easy for designer to design the system. These requirements include input, output and functions performed.*

* 1. **External Interface Requirements :-**

**3.1.1 User Interfaces: -** *The interface must be easy to understand. The user interface includes:*

* **Screen Formats /Organization: -** *The screen will be the first to be displayed which will allow the users to choose either of the two options, viewing or booking a ticket for movie*.
* **Data Format: -** *The data entered by the users will be alpha numeric.*

* **Send Messages: -** *When there are some exceptions raising error like entering invalid details, then error messages will be displayed prompting the users to re-enter the details*.

**3.1.2 Hardware interfaces:**

*The system should basically support certain input and output devices.*

*Their description is as follows:*

|  |  |  |
| --- | --- | --- |
| Name of item | Description of purpose | Source of input /description of output |
| *Keyboard* | *To accept data from user like password, personal detail, movie details* | *Source of input* |
| *Printer* | *To print the ticket i.e. movie chosen with date and timing* | *Destination of output* |

* 1. **Use Case Diagram :**

ONLINE MOVIE RESERVATION SYSTEM

Theatre Owner

Customers

Adminstrator

External User

**3.3 Functional Modules:**

1. **Registration:**

Input: *User’s details*

Actors: *Customer*

Description: *User’s sign up*.

Precondition: *Mail-ID is necessary.*

Normal flow: *User enters their email address, password and other required information. After clicking the sign up button, system connects to the database and a message appears which confirm the membership and confirmation mail is sent.*

Alternative flow: *If same e-mail ID exists in the database or user has entered any erroneous information than an error message will be displayed on screen.*

Output: *User’ account will be created.*

1. **Login :**

Input: *User ID and password*.

Actors: *Customer and Administrator.*

Description: *User’ sign in.*

Precondition*: User should have the membership of website*.

Normal flow : *A user can enter mail address ,password. After clicking the sign in button, system connects to the database and user’s home page is displayed.*

Alternative flow: *If user has entered wrong e-mail ID or password than* *an error message will be displayed on the screen.*

Output : *User had logged in into the website.*

**3. Book tickets:**

Input: *Date of the show, name of movie, time, class and number of seats.*

Actors: *Customers.*

Description: *Ticket booking.*

Precondition: *User must have logged in.*

Normal flow : *User enter the required information. When user clicks the submit button, system will direct the user for the seat selection and payments. An e-mail confirmation will be sent to the user after successful payment.*

Alternative flow: *Error messages will be displayed to fulfill the required details, if not given by the customer.*

Output : *Tickets will be reserved for the user.*

**4.Feedback :**

Input: *Username and comments.*

Actors: *Customer and external users.*

Description: *User’s comments about the website*.

Normal flow :*User enter their comments and click on the submit button. System connects to the database and a message appears which confirm the submission.*

Alternative flow: *If all the fields are not completed by the user an error messages shall appear.*

Output : *User’s comments will be accepted.*

**5. Instant Ticketing:**

Input: *Nil.*

Actors: *Customer and external users.*

Description: *Information about other ways like SMS and Home Delivery are available for ticket booking.*

Normal flow : *User will get details like phone numbers for Home delivery and SMS booking.*

Output: *Nil.*

**6. Bulk Booking:**

Input: *Organization /corporate/Institute name, username*.

Actor: *Customer*

Precondition: *Minimum tickets will be 80.*

Description: *Ticket booking.*

Normal Flow: *A user can enter mail address, password. After clicking the sign in button, system connects to the database and user’s home page is displayed.*

Output: *Tickets will be reserved.*

3.4 **SYSTEM SOFTWARE ATTRIBUTES:**

Security: *This system is completely secured, as each user will*

*Require an authenticated user id and password.*

*Maintainability: This system is designed in such a way that more features can be easily added without interfering with the base product.*

*Portability: These applications will easily portable on Window based System that has SQL installed.*