

# Detailed design/Low level design document:

## 1. Sign up

Functional Description	Signup for new user.
Calling function	
Sub-function	
Input parameter	First Name, Last Name, Email, Address, Username, Password, Phone Number
Out parameter	Account Created Message and homepage with username is displayed

## 2. Update Profile

Functional Description	member will be able to change his/her profile details like changing password, mobile no
Calling function	
Sub-function	Edit()
Input parameter	Click on the Edit Profile button
Output Parameter	Redirected to page with user info

### Edit

Functional Description	Member can be able to edit required thing in profile
Calling function	updateProfile()
Sub-function	
Input parameter	Each field will have the values entered by user initially during sign up or recent update, the user can click on the specific field and update the value once done A save button at the bottom has to be clicked
Output Parameter	A message Successfully update is displayed and user is redirected back to homepage

## 3. Book ticket

### SelectCity

Functional Description	The user able to select the city first then book ticket.
Calling function	
Sub-function	Selecttheatre()
Input parameter	Select a city from the drop down box
Out parameter	Filter out theatres in the city selected

### SelectTheatre

Functional Description	The user should select the city then after that he/she can choose the theatre for booking of ticket.
Calling function	SelectCity()
Sub-function	Selectmovie()
Input parameter	Select theatre from the drop box
Output parameter	Filter out movies running in the selected theatre

#### Selectmovie

Functional Description	The user able to select the movie .
Calling function	Selecttheatre()
Sub-function	Selectdate()
Input parameter	Select movies running from the drop box
Output Parameter	Filter out show dates for movie selected

#### Selectdate

Functional Description	The member should select the date of the movie.
Calling function	Selectmovie()
Sub-function	Selectshowtime()
Input parameter	Select the date on which movie can be viewed
Output Parameter	Filters out show timings based on date selected

#### Selectshowtime

Functional Description	The member should select the show time of the movie.
Calling function	Selectdate()
Sub-function	Selecttickettype()
Input parameter	Select a show time from the drop down box
Output Parameter	Filters out the seat type available for the particular show time selected

#### Selecttickettype

Functional Description	The user also able to select the type of the ticket.
Calling function	Selectshowtime()
Sub-function	Selectnoofseats()
Input parameter	Select a seat type from the drop down box(Platinum,Gold,Silver)
Output Parameter	Based on selection number of seats that can be booked is filtered

#### Selectnoofseats()

Functional Description	The member able to select the no of tickets required.
Calling function	Selecttickettype()
Sub-function	Selectseatpos()
Input parameter	The number of seats the user wants to book (max:10)
Output Parameter	A matrix with seats available is displayed

#### Selectseatpos()

Functional Description	The member able to select the position of the seat.
Calling function	Selectnoofseats()
Sub-function	Ticketsummary()
Input parameter	Select from the matrix positions of seats which are required by the user
Output Parameter	The seat select turns green when selected

#### Ticketsummary

Functional Description	It shows the summery of the tickets.
Calling function	Selectseatpos()
Sub-function	
Input parameter	Inputs from all the above functions
Output Parameter	A summary of the booking transaction

### 3. Cancel ticket

#### Booking History

Functional Description	The system may be able to show the history of the ticket booking
Calling function	
Sub-function	Viewdeatails(),cancel()
Input parameter	
Out parameter	Displays the booking history of the user ie the movies for which the user has booked tickets for

#### Cancel()

Functional Description	The system may be able to cancel the ticket and refund the money on the user's request.
Calling function	Bookinghistory()
Sub-function	
Input parameter	Clicking on cancel next to a movie a conformation dialogue box will appear which send a Boolean value Yes-1 or No-0

Output Parameter	Based on choose made the ticket will be cancelled or remains as it was
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#### 4. Admin Sign IN

Functional Description	Admin of the system should be sign in
Calling function	
Sub-function	Addmovie(), updatemovie(), removemovie()
Input parameter	Username and password
Output Parameter	Separate page for admin is displayed with various option

##### 4a Add movie

Functional Description	Adding new movies to the theatres. This requires admin privileges
Calling function	Adminsignin()
Sub-function	
Input parameter	Moviename, theatre name, city name
Out parameter	Movie added successfully message and redirection to admin homepage

##### 4b Remove movie

Functional Description	Removing movies from the theatres.
Calling function	Adminsignin()
Sub-function	Selectcity()
Input parameter	A button has to clicked
Out parameter	Two drop downs appear

##### Selectcity()

Functional Description	Select the city of the theatres.
Calling function	Removiemovie()
Sub-function	Selecttheatre()
Input parameter	Select a city from the list of cities
Output Parameter	Based on city selected theatre in the city gets filtered

##### Selecttheatre

Functional Description	Select the theatre in the city.
Calling function	Selectcity()

Sub-function	Remove()
Input parameter	A theatre is selected from the drop down
Output Parameter	The list of movie running in the theatre is filtered

#### Remove

Functional Description	Removing movies from the theatres.
Calling function	Selecttheatre()
Sub-function	
Input parameter	The movie to be removed is selected and a confirmation box is displayed with a Boolean type ie YES-1 NO-0
Output Parameter	Based on the choice the movie is removed or is left and the list of movies running in the theatre is displayed for further operations

#### 4c Update movie

Functional Description	Updating the movies in theatres.
Calling function	Adminsignin()
Sub-function	Selectcity(), selecttheatre()
Input parameter	The change button next to the respective field has to be clicked
Output parameter	

#### Selectcity()

Functional Description	Updating the movies in the cities.
Calling function	Removiemovie()
Sub-function	Selecttheatre()
Input parameter	Select a city from the list of cities
Output Parameter	Based on city selected theatre in the city gets filtered

#### Selecttheatre

Functional Description	Updating the theatres.
Calling function	Selectcity()
Sub-function	Changemoviename(),changemoviedate()
Input parameter	A theatre is selected from the drop down
Output Parameter	The list of movie running in the theatre is filtered

#### Changemoviename

Functional Description	Changing the movies from the database.
Calling function	Selecttheatre()
Sub-function	
Input parameter	A text box appears where the admin can enter the name and it gets updated in the site and database
Output Parameter	Successfully updated message and redirected back to admin homepage

#### Changemoviedate

Functional Description	Changing the movie date from the data base.
Calling function	Selecttheatre()
Sub-function	
Input parameter	A calendar appears where the admin can select the end date of the movie
Output Parameter	Successfully updated message and redirected back to admin homepage

#### 8.Restriction on no of tickets for member

Functional Description	For a particular movie and particular show user can't be book more then ten tickets.
Calling function	
Sub-function	
Input parameter	
Out parameter	

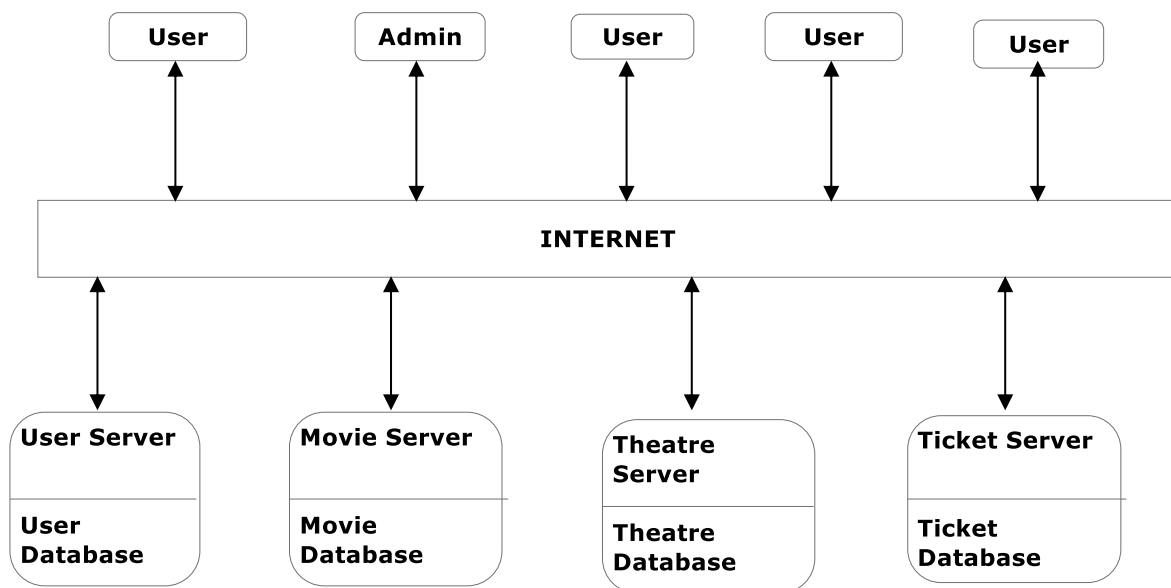
#### 9.Check ticket availability

Functional Description	Visiter or member should be able to check for availability of tickets for a specific movie selected
Calling function	
Sub-function	
Input parameter	
Out parameter	

# Functional Requirements/high level design:

## 1.client-server architecture

For our project we have chosen the CLIENT SERVER MODEL the reasons for the same are mentioned briefly following the diagram



### Client Server Model

- Distributed system model which shows how data and processing is distributed across a range of components.
- Components
  - Set of servers
  - Set of clients
  - Network

We have chosen this model as it suits our project needs and each of the component as shown in the diagram. Only the important components have been shown as the others are either embedded or dependant on these major components as shown in the diagram:

1. All the data about the movies currently running are updated in a specific database which is connected to the server. In case when a movie's rating has changed or the showtimings for the movie has changed then the database will be updated hence the user can view the change via INTERNET where the information is retrieved from the database via the server to the internet.

2. Since each theatre has a specific number of screens and can run only certain number of movies, this information will be stored in the Theatre database which will be updated and can be viewed by the user on the INTERNET
3. The information regarding the tickets availability, tickets booked, etc for all the movie being viewed by the user are stored in the Ticket Database.
4. The User Database stores information regarding the user such as User name, password, address, email, etc and also keeps track of the history of the movies that the user has booked tickets for.
5. At any given time the number of users accessing the website for booking tickets depends on the capacity of the hardware that our software is integrated into. Also at any given time the Administrators can access the website.

Also the various design attributes that each server uses to retrieve information has been mentioned late in this document in the form of Data Base Tables.