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Functional Testing

Use case/Requirement	Positive Tests	Negative Tests
Sign up for application	Successful signup	Existing phone number
Select city	Successful selection of city	-
View Profile	Successful view of all the details	-
Edit Profile	Successful editing of the profile	-
View movies being aired	Successful view of all the movies being aired	-
Click a movie and view its info	Successful view of the movie info	-
View artist profile in the artist page	Successful view of the artist info	-
View all airing theatres and the available shows for a movie	Successful view of all airing theatres and the available shows for a movie	-
View available seats for a show	Successful view of available seats for a show	-
Booking available seats for a show	Successful booking of selected available seats for a show	Payment failure, concurrent booking of same seats, booking after the tickets are being no more sold because of the booking

		time which is at edge, moving out of page after selection of seats, trying to book when user not logged in
Rate a movie	Gives the rating successfully	-
View upcoming movies	Successful view of upcoming movies	-
Info of Upcoming movie	Successful view of info of Upcoming movie	-
Set a notification preference for movie tickets release update	Successfully setting the preference	-
Showing recommendations	Successful display of the recommended movies	-
View available theatres	Successful view available theatres	-
View shows available in a theatre	Successful view of shows available in a theatre	-
Rate a theatre on theatre page	Gives the rating successfully	-
Filter out movies based on genre, language	Successfully display the movies for which the filter is applicable	-
View theatres available within a selected range of distance from a selected location	Successful view of theatres available within a selected range of distance from a selected location	Location access not given
View history of bookings	Successful view of bookings history	-
Logging on to the system	Successful login	Invalid login id, mismatch of login id and password i.e. incorrect password
Reset password	Successful reset	Incorrect current password, mismatch of new password and confirm new password

Logging out of the system	Successful logout	-
Register a theatre	Successfully create an account for a theatre	-
Add a movie	Successfully add a movie	-
Add an artist	Successful add an artist	-
Admin Analytics	Successful view of analytics	-
View movies being aired in a theatre	Successful view all the movies being aired in the theatre	-
Theatre Analytics - Live vs Online Bookings	Successful view of theatre analytics - Live vs Online Bookings	-
Theatre Analytics - Percentage of Audience	Successful view of theatre analytics - Percentage of Audience over other theatres	-
Theatre Analytics - Choices of Audience	Successful view of theatre analytics - Choices of Audience	-
Theatre Analytics - View Ratings	Successful view of theatre analytics - ratings of theatre	-
Change availability of seats	Successfully change the availability of seats	Concurrent access of same seats by a customer and the theatre owner
Add movie shows	Successfully add the movies for the shows available	-

Load Testing

In general many users might access the website simultaneously. When a famous movie is released these access might reach a peak. It is important that the application can bear the load of accesses. Therefore load testing plays an important role.

We plan to use Apache Jmeter, an open source software tool(or some other tool) that helps simulate multiple concurrent users and send load to the database. As a first step, we plan to test with 1000 concurrent users per minute and observe measures that the tool produces like average latency, average throughput.