Assignment 3 Report

ADVANCE TOPICS IN WEB DEVELOPMENT
(CSCI5709)

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Abstract

PLEXTRA is a ticket booking platform for movies, events and sports in Canada. The application will allow users to book their tickets and reserve their preferred seats well in advance or last minute (from project proposal).

People around the city usually look out for events and movies through various sources. This product is unique as it will serve as a one-stop destination to browse and book tickets for all the listed services.

SITEMAP

For this assignment, 7 pages have been designed with 3 functionalities. The pages are:

1. Movies Home Page (index.html)
2. Movie Listings Page (movieconnect.php)
3. Movie Selection Page (moviebook.html)
4. Date Selection Page (datetime.html)
5. Theatre Selection Page (hallconnect.php)
6. Seat Selection Page (seatselect.html)

All the pages above are connected in ascending order of the number.
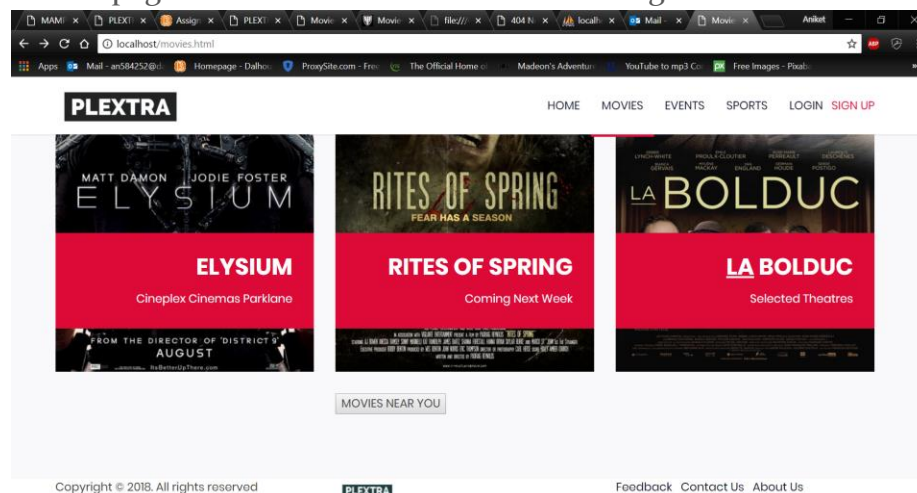
From the Movies Home Page (As shown in Figure 1), on selection of the 'Movies Near You' button at the bottom, it redirects the user to the Movies Near Me page, which fetches all the present and upcoming movies that are in the database, that have been added by the admin. Admin has a separate dashboard to add movies.
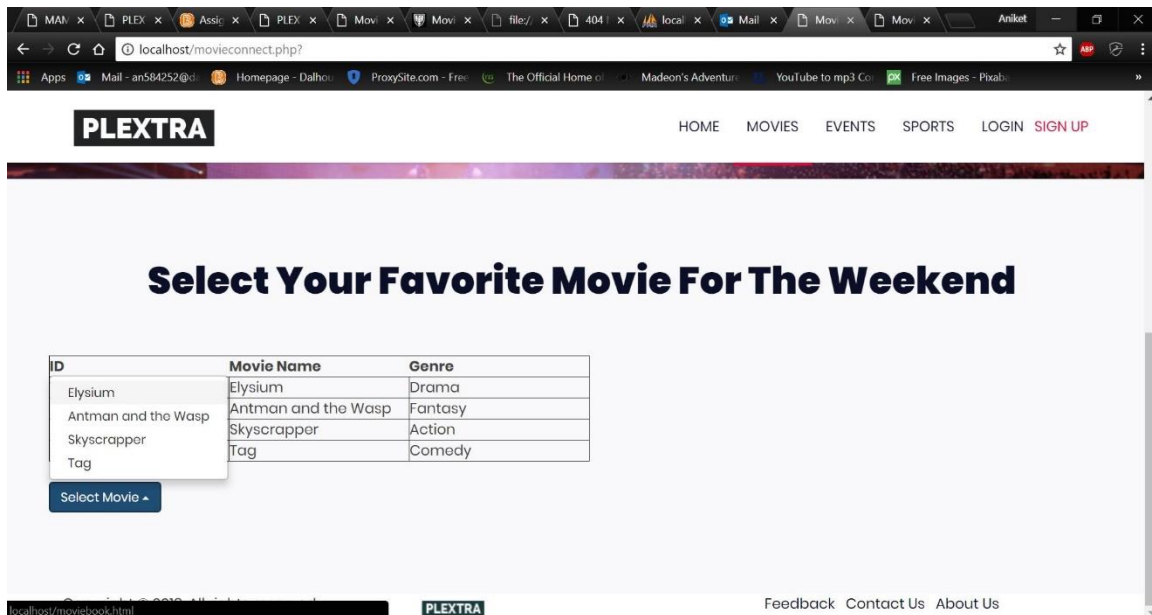
On selection of a particular movie on the Movie Listings, by clicking on the Dropup below, it redirects the user to the next process, i.e., the Movie Selection Page. This page contains more details about the movies, such as the ratings, cast and crew, timings, trailer, etc.
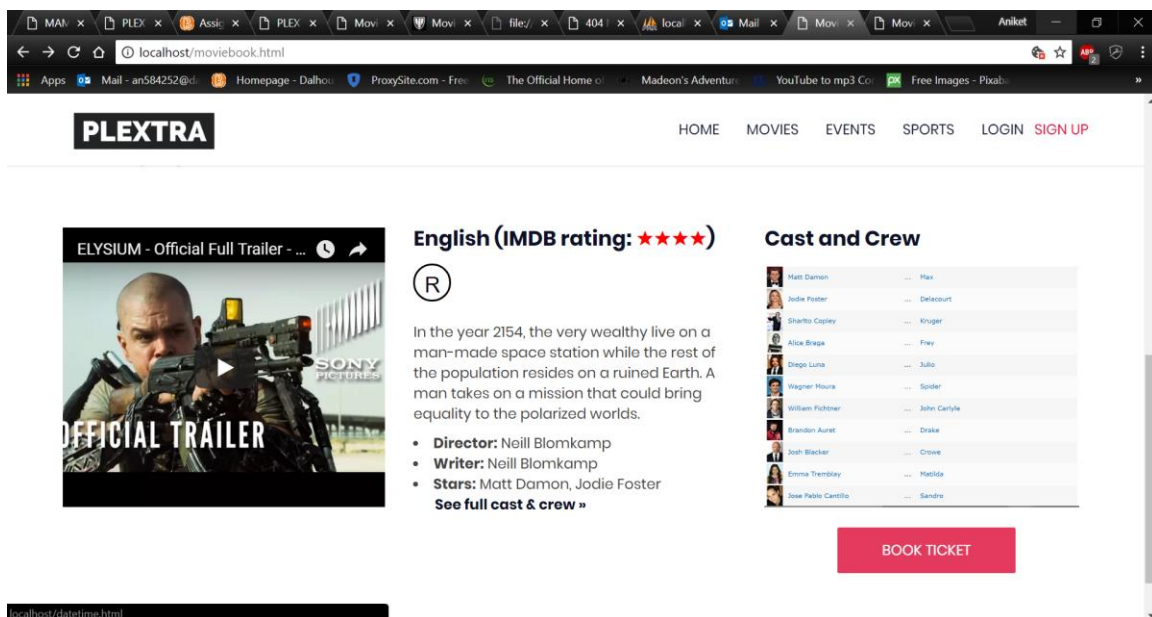
A user can then select 'Book Now' which will take the user to the Date selection page. Here the User can select the date on which he/she wants to view the movie.
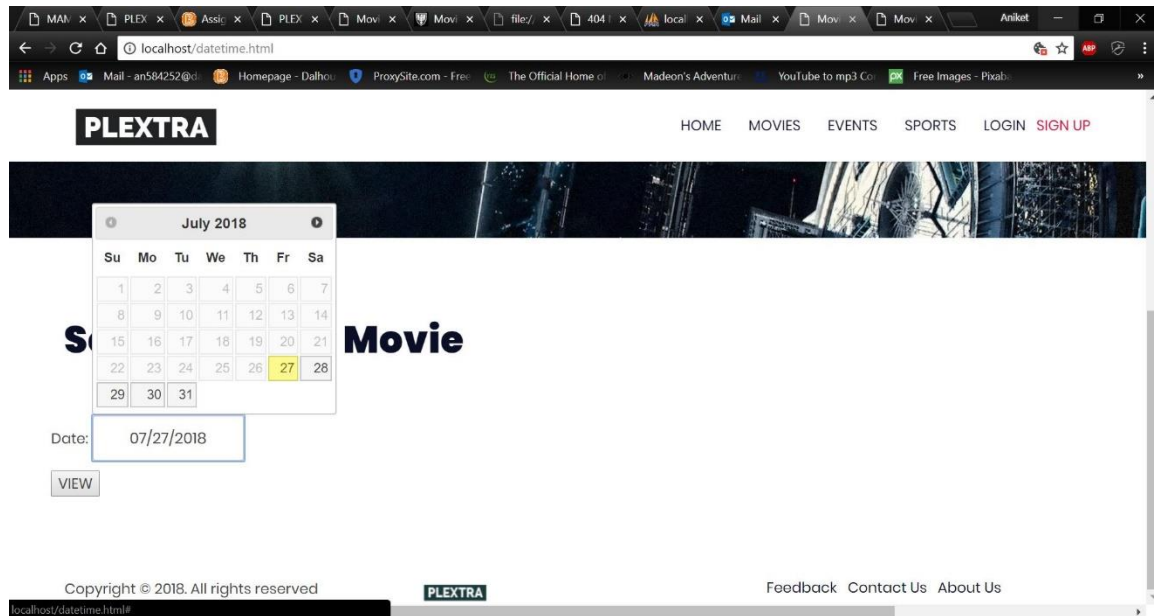
On clicking on a particular date, it shows the user the list of theatres around him that are playing the particular movie.
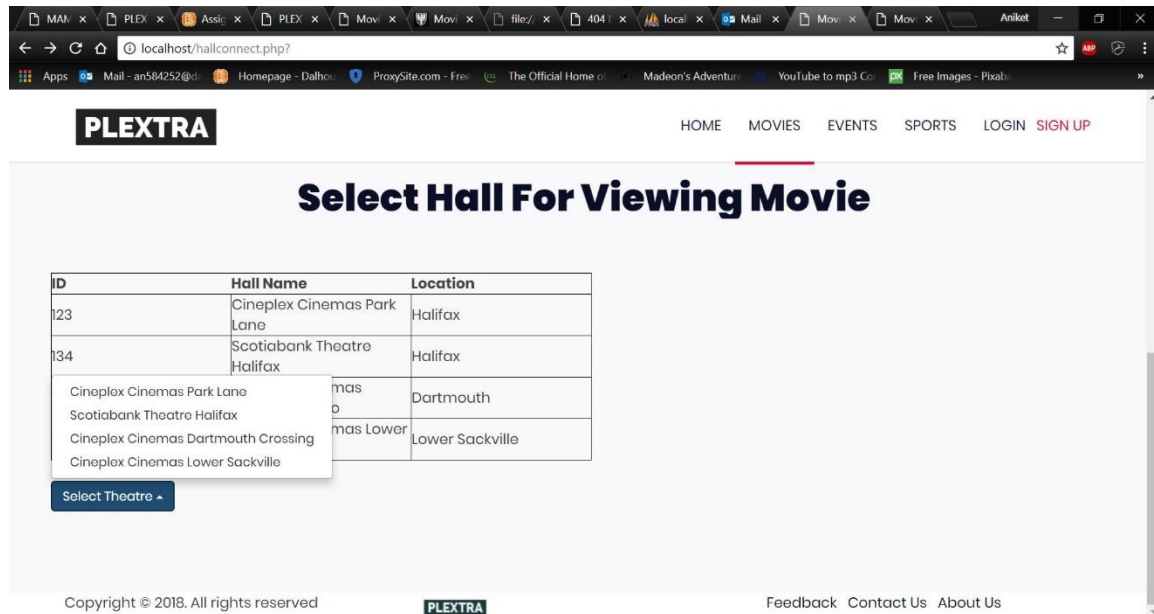
On selecting a particular theatre that may be suitable for the user, it redirects the user to the Seat Selection Page which allows the user to select seats for himself. On selecting any number of seats that are available, the user can click on Book Now to go to the Payments Page.

Functionality

1. The Movies Page allows the user to select the best movies from the Movies Home page directly, by clicking on View button. Or he can select the Movies Near Me button to see the list of all movies that are playing in theatres. These movies are fetched from the database and shown in a tabular listing.
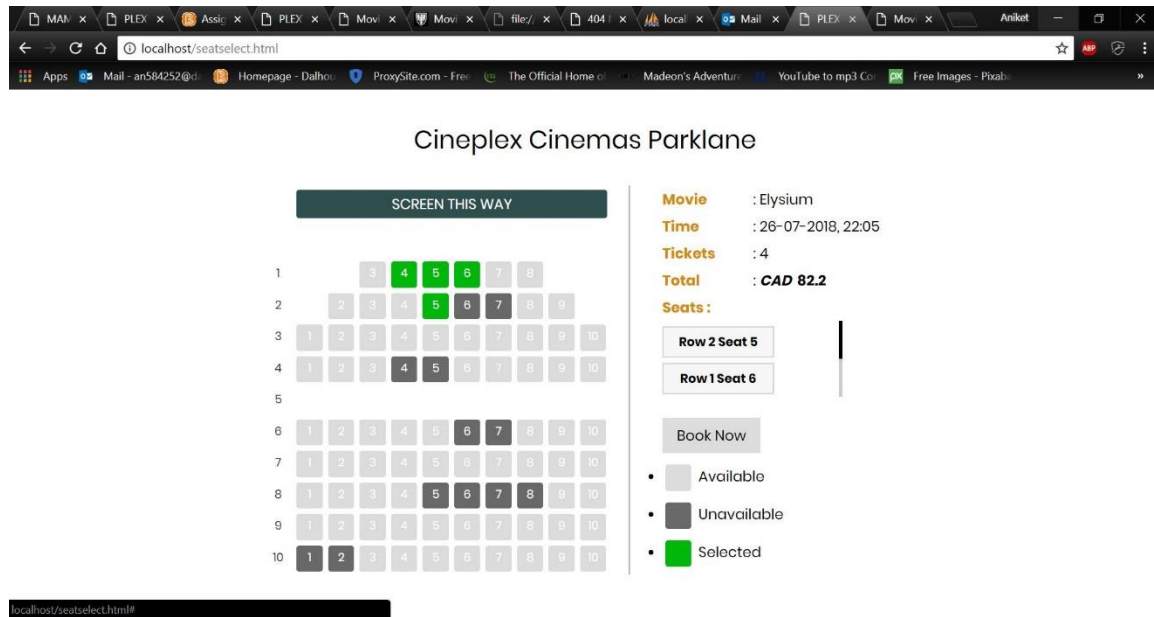2. The Theatres are added by the admin including all other details, such as the location, genre of the movie and many others which will be included for the final project. These theatres are fetched from the database.
3. The Seat selection uses javascript to display the seating capacity, selected seats and total amount of the tickets. This will, be added to the database after the ticket confirmation, or payment confirmation, so as to not allow other users to book the same seats. As of now, the unavailable seats are hard coded, but the user can still select the seats that he wishes to select.

Back end frameworks will be added in the Home Page to fetch the Event, Sports listings and theatre Listings, which is included for the project and not this assignment. We will be using MySQL Workbench as a data storage for storing seats and user information.

Workflow Diagram

```
┌─────────────────┐      ┌─────────────────┐      ┌─────────────────┐
│  Movies Home    │ ───▶ │  Movie Listings │ ───▶ │ Movie Selection │
│     Page        │      │      Page       │      │      Page       │
└─────────────────┘      └─────────────────┘      └─────────────────┘
        1                        2                        3
                                                          │
                                                          ▼
┌─────────────────┐      ┌─────────────────┐      ┌─────────────────┐
│ Seat Selection  │ ◀─── │     Theatre     │ ◀─── │  Date Selection │
│     Page        │      │ Selection Page  │      │      Page       │
└─────────────────┘      └─────────────────┘      └─────────────────┘
        6                        5                        4
```
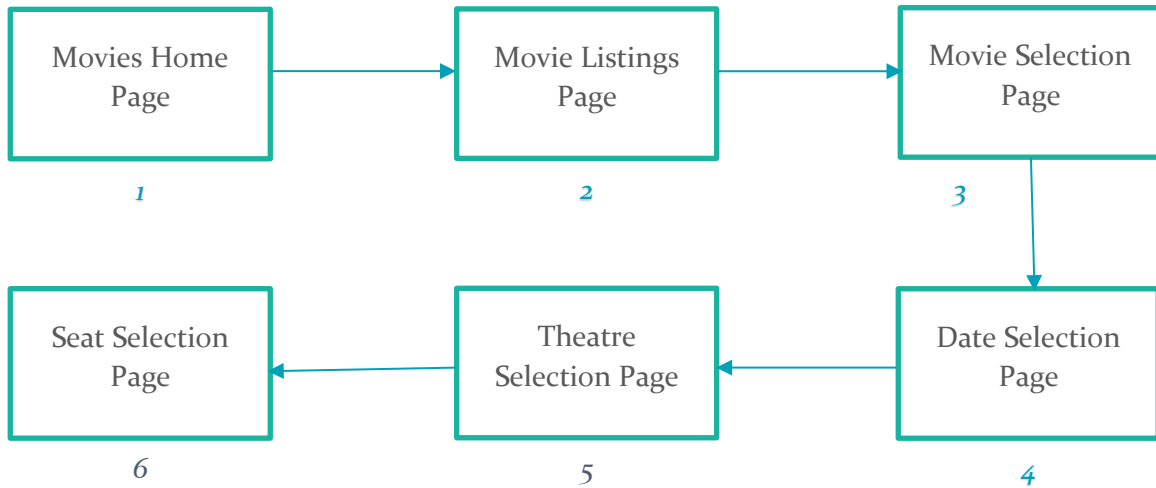
Proposed Sitemap
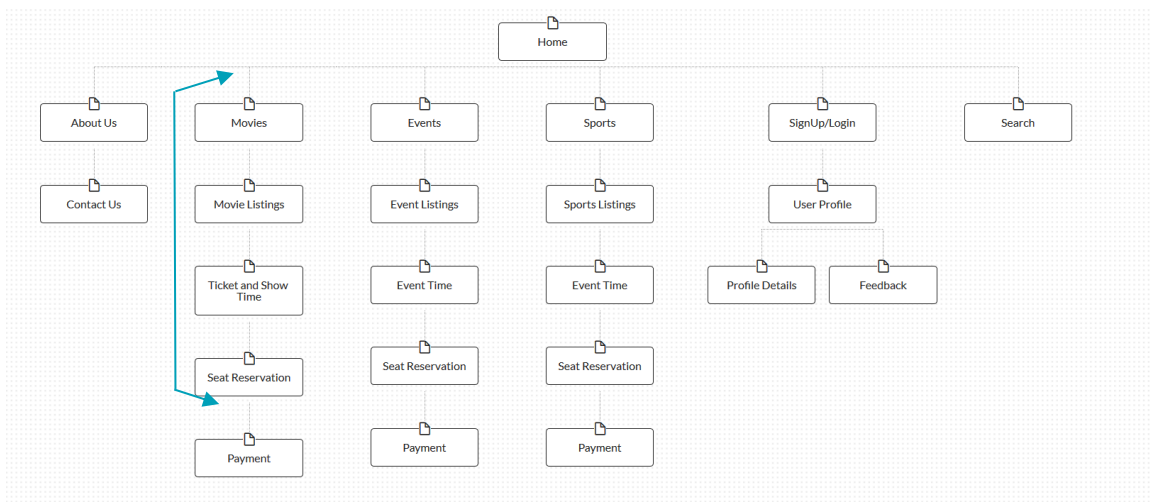
Arrows indicate my area of focus and workflow for Assignment 3.

Technology

css:

Bootstrap v3.3.7 – It can be customized and has predefined design classes for easy and efficient use. It makes the website responsive and just like the responsiveness of this website.

Font Awesome 4.7.0 – It is a collection of web related actions and scalable iconic graphics which are used for this project. It is also free for commercial use.

Owl Carousel v2.2.1 – It is a jQuery plugin for responsive carousel sliders. It has been used for the picture sliders in my project.

JS:

jquery.countTo – It is used for the counter to count to a specific number at a specific speed. Here it is used for counting the number of events, venues, provinces, etc.

jquery.stellar.min – This plugin has been used for background image parallax movement while scrolling down. This allows for aesthetically beautiful appearance while scrolling.

jquery.waypoints.min – This plugin allows for several functions which will later be used in the project. For now, it has been used to display headers when scrolled down to rise from below. It also allows the navbar to remain in position and in view elements.

jquery.seat-charts – It is a powerful jquery plugin to render a fully configurable seating chart on a webpage. It passes a array of strings for each succeeding rows to create a seat map-like interface.

MISCELLANEOUS:

The logo has been designed by me using Spark Adobe. I have referred to many other similar websites and templates while designing this webpage. These include Bookmyshow.com, The Coast, Several templates from Minimal, W3Schools, Colorlib, IMDB, Cineplex, etc. Some images have been downloaded from Pixabay and others from Flickr and Google which is properly referenced in the next section. Other plugins will be added to the final project further on. Databse used

for this assignment is MySQL Workbench. Later on, movie posters in the form of images will be later retrieved from an external API or RSS feed. The particular fonts used match with the overall layout of the webpage and thus is a suitable selection. All other previous Technologies and References which has already been used for Assignment 2 and are already being used for the project, has been recorded without much change to the content. For Assignment 3, only one movie can be selected: 'Elysium'. Also only one theatre can be selected: 'Cineplex Cinemas Park Lane'. Other movie and theatre selections will be later added for the Project. The functionalities and work has been divided among our group members and the final project will differ from the one in the assignments. My part for Assignment 3 does not require any sort of validations or user feedback. We had a limited number of functionalities which might be repeated by other team members of the same group. This is to explain a single flow from the proposed sitemap.

References

[1] Spark Adobe (2018). Retrieved from https://spark.adobe.com/sp/
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[5] Images from Pixabay. With no attribution required, from https://pixabay.com/]
[6] http://www.qubyphotography.com/nightclubs/m5zz3loavyoni1ip1qyzcppeqhsz3b
[7] https://journal.potatonet.info/falcon/
[8] http://www.ghiasports.com/xxsj.aspx?dleixing=djiyariji&id=1651
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[12] Bootstrap. http://getbootstrap.com/docs/3.3/
[13] Font Awesome. https://fontawesome.com/
[14]   Owl Carousel. https://owlcarousel2.github.io/OwlCarousel2/
[15] Stellar.js. http://markdalgleish.com/projects/stellar.js/
[16]   Waypoints. https://github.com/imakewebthings/waypoints
[17] Count To. https://github.com/mhuggins/jquery-countTo
[18]   W3layouts. https://w3layouts.com/
[19]   W3School. https://www.w3schools.com/bootstrap4/

[20]   Stack Overflow. https://stackoverflow.com/

[21]   jQuery-Seat-Charts v1.1.1 by mateuszmarkowski Open Source MIT
    Licence https://github.com/mateuszmarkowski/jQuery-Seat-Charts

[22]   Waypoints - 4.0.1.Copyright Â© 2011-2016 Caleb Troughton.
https://github.com/imakewebthings/waypoints/blob/master/licenses.txt

[23]   jQuery v1.11.0 (c) 2005, 2014 jQuery Foundation, Inc. |
    jquery.org/license */

[24]   W3 School Validation. https://validator.w3.org/

[25]   My previous Assignment. Assignment 2 (It repeats most technologies and
    content from the previous assignment).

[26]   W3 Layouts License. http://creativecommons.org/licenses/by/3.0/