**2023F CSD 2103 Front End Web Development II**

**TERM PROJECT**

**MOVIE THEATRE MANAGEMENT**

**Term:***2023F CSD 2103*

**Instructor*:*** *Mohammad Kiani Sir*

**Group Members:**

Venkata Sandeep Reddy Sabbella – C0868022

Pavan Kumar Reddy Vuyyuru – C0907372

Rithvik Varma Thotakura – C0895311

Rajesh Jyoti Samrat – C0894896

**Abstract:**

The purpose of our website which is Toronto Movie chain is to provide a convenient, efficient, and effective way to book movie tickets online. It acts a barrier between movie watcher’s and theatre to facilitate the ticket reservations. In this site users can select the show-timings for movies in-order to book movie tickets according to their schedule. And we provide information regarding movie insights, upcoming movie and their trailers that will be navigated to YouTube. Finally, we have incorporated the contact us page that helps user to input their feedback, complaints or any-quires regarding the website or theatre network. The target audience of our website are variety of type like students, professional workers, cinephiles, group of friends who go for some entertainment purpose and to cater the needs of individuals who enjoy watching movies in theatre by booking them through online portal or website. The graphics we maintained in our website is Icons (Sign Up and fav-icon for website), Images (for movie banners and logo), Map (for theatre location), Buttons (for selecting movie and buy tickets), Banner image in home page, Background color (#000) for webpage.

As a movie ticket booking website, we offer a wide range of features to user in process of booking movie ticket as per their schedule. The common features we offer are:

1. **Movie details & Listings:** Here we list the movies that are playing currently in the theatre and some information regarding the movie genre, show timings and running time of movie.
2. **Book Tickets:** This helps to book tickets as per the schedule selected by user.
3. **Upcoming movie:** This feature mainly displays the information regarding the movies that are going to cast in future and their trailer links to YouTube.
4. **Movie news:** This feature is in home page which displays the recent news about films and casts.
5. **Trailers for recent movie and Upcoming movies:** In trailers page we display the trailers of movies that are playing currently or upcoming movies through YouTube link embedded in webpage.
6. **Contact Information and customer support:** To ensure easy use or providing support to the customer we placed feedback form, hours of operation and our location in webpages even contact information, so that user can contact the owners at any time.
7. **About our company terms and conditions to website and theatre:** It displays the terms and conditions of our company and our website and website content like images videos etc.
8. **CSS styles that you have made and how they are applied to pages.**

The colors we mostly used in website is combination of light and dark versions which make our website to look decent and attractive to the user. The colors we used are black (#000) and white smoke(#f1f1f1) which enhances our website.

**Primary Color:**

* Hex – #000 (black)
* RGB – RGB (0,0,0)
* Usage – Black is our primary color used for prominent elements such as header, buttons, background, and important elements.

**Secondary Color:**

* Hex – #fff
* RGB – RGB (255,255,255)
* Usage – This white color is used for site title, signup link on header against the dark background.

**Text Color:**

* Hex – #000
* RGB – RGB (0,0,0)
* Usage – This dark black color is used for text as color ensure the readability and contrast against the light background.

**Background Color:**

* Hex – #f1f1f1
* RGB – RGB (241,241,241)
* Usage – This white smoke color is used as the background for main content area and navigation bar background to provide clean and soothing visual experience to the user.

**Button:**

* Hex – #fff & On hover – opacity to 0.8 (becomes light grey)
* RGB – RGB (255,255,255)
* Usage – This dark color is used for buttons when cursor hovers its opacity changes to 0.8 from 1.

**Hyperlinks:**

* Hex – #0000ff & On hover – #0000ff & on active - #ff0000
* RGB – RGB (0,0,255) & On hover – RGB (0,0,255) & on active - RGB (255,0,0)
* Usage – The phone and email link in website is default blue color and on hover it remains blue but when user clicks on it change to red color.

**Font-Family: ‘Montserrat’, sans-serif.**

**Primary Font:** Montserrat

**Fallback Font:** Sans-Serif

* **Headings:** For headings used Montserrat font-weight bold to create a bold and impactful appearance.
* **Sub-Headings:** For subheadings we used font-weight 700 with font-family Montserrat to maintain hierarchy.
* **Paragraphs and Body texts:** Use Montserrat regular font weight 400 for text and paragraphs for legibility.

**Font-Family: ‘Courier New’, courier, monospace, sans-serif.**

* Used for Movie title name in upcoming trailer page with primary font as Courier new and fall-back value as courier, monospace and sans-serif to ensure clear and distinguishable appearance.

**Font Size:**

* **Headings:** h1- 36px, h2 -30px, h3 -24px, h4 -20px, h5 -18px, h6 -16px (default values)
* **Subheadings:** 18px
* **Body Text & paragraphs:** 18px and 16px
* **Navigation links:** 16px
* **Buttons:** 16px

The styling for each page includes the headers, lists, images, sliders, buttons etc. as mentioned above specifications and we applied this by keeping the common CSS in One style sheet i.e. styles.css file which contains CSS related to common things such as header, footer, nav bar and main container related things. Whereas another CSS file i.e. styles.css file contains the CSS that related to all other pages we separated the CSS through each commented line keeping page name in comment to distinguish the CSS easily that belongs to. And also, we had written the media quires to adjust the webpage to different layouts to mobile tablet and desktop. And we linked these two files in all html pages using link tags as shown (“

<link rel="stylesheet" href="../css/styles.css">

<link rel="stylesheet" href="../css/styles2.css">

”).

We have used a lot of CSS properties in the styling section to look webpage decent and attractive here I will list few CSS properties that we are used in styling. They are width, height, max-width, position, top, margin, display, float, border, border-collapse, padding, color and background-color, font-size, font-weight, font-style, line-height, letter-spacing, text-decoration,: hover effects on buttons, opacity, white-space, overflow, input related, and finally media queries for adjusting web page to different layouts.

1. **The challenges you had for this project and your solution.**

The challenges we faced in this project and how we resolved the issues are:

1. **UI Design**

* Challenge: To design the user-friendly interface and mobile specific navigation bar and booking page UI
* Solution: For Booking page we just keep it simple by using input elements for visualizing the seats and coming to interface we used proper layouts and provided the clear call to action like using hamburger in mobile nav bar and keeping header and navbar different to look decent

1. **Seat Selection and Availability**

* Challenge: Dynamically updating and displaying seat availability based on user interactions.
* Solution: Keep track of seat availability and update the UI accordingly. Consider using visual indicators for available and booked seats. Since we have used input html elements to create the visualization of seats based on user selection we made to distinguish between reserved seat and unreserved seat, and we got the data into local storage using JavaScript and store the data.

1. **Responsive design:**

* Challenge: Ensuring the ticket booking page is accessible and looks good on various devices and screen sizes.
* Solution: Implement responsive design using CSS media queries. Test your page on different devices and browsers to ensure a consistent experience.

1. **User Authentication**

* Challenge: Handling the user authentication to make user login or signup to the website providing the personalized experience.
* Solution: Implemented a authentication mechanism by storing the username and password in local storage and fetching those details through the JavaScript in the custom way.

1. **Cross-browser compatibility:**

* Challenge: Ensuring consistent behaviour and appearance across different web browsers.
* Solution: Tested the website on various browsers to identify and address compatibility issues.

**Website Map:**

**A diagram of a network

Description automatically generated**

1. **Then include a one-page table like the one below regarding your 10 mobile specific HTML, CSS or JavaScript features:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Feature | Code Line# | Browser/Platform 1 compatibility components  (Chrome) | Browser/Platform 2 compatibility components  (Firefox) | Browser/Platform 3 compatibility components  (Edge) |
| Mobile Specific Navbar using Hamburger | CSS#242(styles2.css)  JS#14(index.js) | Yes | Yes | Yes |
| Call Option in mobile using button | CSS#904(styles.css)  HTML#88(about-us.html) | Yes | Yes | Yes |
| IF we make orientation in Mobile the layout will change | CSS#1076(styles.css) | Yes | Yes | Yes |
| Touch End feature (its just gives alert on window) | HTML#51(upcoming.html)  JS#22(index.js) | Yes | Yes | Yes |
| Touch start feature (its just gives alert on window) | HTML#56(about-us.html)  JS#32(index.js) | Yes | Yes | Yes |
| Touch Move feature (its just gives alert on window) | HTML#83(upcoming.html)  JS#26(index.js) | Yes | Yes | Yes |
| Responsive Design which works for Tablet and mobile devices based on media quires | CSS#774 &992(styles.css)  CSS#225&293(styles.css) | Yes | Yes | Yes |
| Mobile Footer  Using media quires made responsive | CSS#344(styles2.css) | Yes | Yes | Yes |
| Responsive meta-Tag | HTML#13  In all HTML files | Yes | Yes | Yes |
| Mobile Specific Styling like font size and alignment will be varied in Mobile and tablet layout some places it required | CSS#774 &992(styles.css)  CSS#225&293(styles.css) | Yes | Yes | Yes |

**Thanking You**

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