



# **Mini Project Report on Marvel Studio's OTT platform**

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Vishwakarma Institute of Information Technology, Pune  
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## **We Development (CS11237) Term Work**

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# Chapter 1

## Abstract

This web development mini-project centers on crafting an interactive and visually captivating homepage for a Marvel Studios Over-The-Top (OTT) platform. Utilizing HTML and CSS, the project structures and styles the webpage to deliver a seamless user experience.

The homepage is thoughtfully segmented into categories like "Trending Now," "Multiversal Saga," "Top Rated," "The Avengers," "The Origin," and "Upcoming Projects." Each section showcases relevant Marvel Cinematic Universe content, featuring images and concise descriptions. Accessibility standards are addressed through the use of semantic HTML elements and the inclusion of alt text for images.

The CSS file enhances the visual aesthetics and ensures responsiveness across various device sizes. The report highlights potential improvements such as additional styling details, code comments for clarity, and performance optimizations, including considerations for image hosting on servers or Content Delivery Networks (CDNs).

This mini-project serves as a foundational exploration into web development, seamlessly merging functionality and design principles to create an engaging Marvel Studios OTT homepage. It offers a glimpse into the potential for further iterations and enhancements, refining the user interface and overall user experience.

# Chapter 2

## Introduction

The Marvel Studios OTT Homepage Project is a dynamic venture into the realm of web development, aimed at constructing an immersive online platform for Marvel Cinematic Universe enthusiasts. In response to the growing demand for accessible and visually compelling content, this mini-project leverages HTML, CSS, and strategic design principles to curate a user-centric homepage. Marvel Studios, renowned for its captivating storytelling and iconic characters, deserves a digital space that aligns with its cinematic grandeur. The project meticulously organizes content under thematic categories, such as "Trending Now," "Multiversal Saga," and "Upcoming Projects," offering users a seamless navigation experience.

The HTML structure is meticulously crafted, incorporating semantic elements to enhance accessibility for all users, including those with disabilities. Complementing this, the CSS styling elevates the visual aesthetics, ensuring responsiveness across a spectrum of devices. This endeavor not only explores the fusion of functionality and design but also signifies a stepping stone in creating an engaging online hub for Marvel enthusiasts. The report delves into potential refinements, acknowledging the importance of code clarity, additional styling nuances, and performance optimizations.

# Chapter 3

## System Requirements

### **1. Minimum Hardware Requirements:**

- MEMORY (RAM): 2GB
- Hard Disk Capacity: 40GB
- Processor Speed: 1.6 GHz or faster processor

### **2. Minimum Software Requirements:**

- Operating System: Windows / Linux
- Editor: Notepad/sublime/Visula Studio Code/ Atom
- Browser: Chrome/ Microsoft Edge / Mozilla Firefox / Safari /Opera

# Chapter 4

## Project Problem Statement

### Marvel Studios OTT Homepage Project

In the ever-evolving landscape of digital entertainment, the absence of a dedicated and user-friendly online platform for Marvel Cinematic Universe (MCU) content presents a notable gap in the fan experience. Currently, enthusiasts seeking a centralized hub for MCU content face challenges in accessing a cohesive, visually compelling, and interactive platform. Existing platforms may lack thematic organization or fail to provide an immersive experience that befits the grandeur of Marvel Studios' cinematic universe.

The absence of a dedicated Marvel Studios Over-The-Top (OTT) homepage contributes to fragmented user engagement, hindering the optimal exploration of trending content, multiversal sagas, and upcoming projects. Additionally, accessibility considerations for diverse user needs, including those with disabilities, are crucial for creating an inclusive digital space. The project aims to address these challenges by leveraging web development technologies such as HTML, CSS, and JavaScript to construct a comprehensive and accessible MCU homepage.

The Marvel Studios OTT Homepage Project seeks to fill this void by offering a seamless and visually captivating digital destination that caters to the specific needs and expectations of MCU enthusiasts. Through thematic categorization, enhanced accessibility features, and strategic design, the project aims to bridge the gap between the expansive Marvel cinematic universe and its devoted audience, creating a singular online hub for an enriched viewing experience.

# Chapter 5

## Our Modules

The Marvel Studios OTT Homepage Project is meticulously designed with a modular structure, ensuring an organized and efficient development process. Our approach revolves around distinct modules, each catering to specific functionalities and thematic content categories. These modules form the backbone of the project, facilitating seamless navigation, engaging user interactions, and an immersive presentation of Marvel Cinematic Universe (MCU) content.

### 1. Navigation Module:

- Objective: Enhance user experience through a dynamic navigation bar.
- Implementation: Utilize JavaScript to create a scroll-triggered effect, dynamically altering the navigation bar's appearance. This fosters an intuitive and responsive navigation experience.

### 2. Content Display Modules:

- Objective: Showcase MCU content across various categories such as Trending Now, Multiversal Saga, Top Rated, and more.
- Implementation: Employ HTML to structure content containers and integrate CSS for styling. Leverage responsive design principles to ensure optimal viewing across diverse devices.

### 3. Accessibility Module:

- Objective: Prioritize inclusivity by adhering to accessibility standards.
- Implementation: Incorporate semantic HTML elements and provide meaningful alt text for images. This ensures a seamless experience for users with diverse abilities.



#### **4. Thematic Sections Module:**

- Objective: Create thematic sections for different MCU content categories.
- Implementation: Utilize HTML to structure sections and CSS for thematic styling. Each section is dedicated to specific MCU content, contributing to a well-organized and visually cohesive homepage.

#### **5. Upcoming Projects Module:**

- Objective: Highlight and anticipate upcoming MCU projects.
- Implementation: Showcase upcoming projects in a dedicated section with images and brief descriptions. This module keeps users informed about the future releases within the MCU.

#### **6. Styling and Responsive Design Module:**

- Objective: Ensure visually appealing design and responsiveness across devices.
- Implementation: Implement CSS for styling, focusing on color schemes, fonts, and layout aesthetics. Incorporate media queries for responsive design, adapting the layout to different screen sizes.

These modules collectively contribute to the comprehensive development of the Marvel Studios OTT homepage, offering a user-centric and visually captivating platform for MCU enthusiasts. The modular design facilitates scalability, ease of maintenance, and the potential for future enhancements as the Marvel cinematic universe continues to evolve.

# Chapter 6

## Technology Stack

The success and efficiency of the Marvel Studios OTT Homepage Project hinge on a thoughtfully chosen technology stack that aligns with the project's objectives of creating an engaging and responsive platform for Marvel Cinematic Universe (MCU) enthusiasts. The selection of tools and technologies is crucial to achieving a seamless integration of design and functionality.

### 1. HTML (HyperText Markup Language):

- Role: Fundamental for structuring content on the web.
- Implementation: Utilized to create a well-organized and semantic structure for the homepage. Ensures accessibility and a clear hierarchy of information.

### 2. CSS (Cascading Style Sheets):

- Role: Responsible for styling and visual aesthetics.
- Implementation: Employed to enhance the visual appeal of the homepage, defining layout, color schemes, and fonts. Ensures a consistent and visually pleasing presentation across devices.

### 3. Responsive Design Principles:

- Role: Ensures adaptability to different screen sizes and devices.
- Implementation: Integrated into the CSS styling to create a responsive design, optimizing the layout for a seamless viewing experience on a variety of devices, including desktops, tablets, and mobile phones.

### 4. Web Hosting or Content Delivery Network (CDN):

- Role: Ensures efficient delivery of content and assets.
- Implementation: Considering hosting images on a server or using a Content Delivery Network (CDN) to optimize

performance and enhance the loading speed of the webpage.

**5. Text Editor or Integrated Development Environment (IDE):**

- Role: Provides a platform for code development and editing.
- Implementation: Utilized for coding and editing HTML, CSS, and JavaScript files. A text editor or IDE streamlines the development process and enhances code readability.

**6. Web Browser (e.g., Google Chrome, Mozilla Firefox):**

- Role: Platforms for testing and viewing the developed webpage.
- Implementation: Ensures compatibility and validates the webpage's functionality across different web browsers.

This carefully curated technology stack forms the backbone of the Marvel Studios OTT Homepage Project, harmonizing different tools and technologies to create a cohesive, visually stunning, and functionally robust online platform for MCU enthusiasts. Each component plays a vital role in contributing to the overall success of the project, providing a rich and immersive user experience.

# Chapter 7

## Code

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Marvel Cinematic Universe</title>
    <link rel="stylesheet" href="style.css" />
  </head>
  <body>
    <!-- nav -->
    <div id="nav" class="nav">
      
      
    </div>

    <!-- header -->
    <header class="banner">
      <div class="banner__contents">
        <h1 class="banner__title">Loki Season 2</h1>
        <div class="banner__buttons">
          <button class="banner__button">Play</button>
          <button class="banner__button">Wish List</button>
        </div>
        <h1 class="banner__description">
          After stealing the Tesseract during the events of Avengers: Endgame
          (2019), an alternate version of Loki is brought to the mysterious Time Variance
          Authority (TVA),and give's him a choice.....
        </h1>
      </div>
      <div class="banner--fadeBottom"></div>
    </header>

    <!-- Trending Now -->
    <div class="row">
      <h2>Trending Now</h2>
      <div class="row__posters">
        

        
      </div>
    </div>
  </body>
</html>
```

```

        
    </div>
</div>

<!-- Multiversal saga -->
<div class="row">
    <h2>Multiversal Saga</h2>
    <div class="row__posters">
        

```

```

        
    </div>
</div>

<!-- Top Rated -->
<div class="row">
    <h2>Top Rated</h2>
    <div class="row__posters">

        
    </div>
</div>

<!-- Avengers -->
<div class="row">

```

```

    <h2>The Avengers</h2>
    <div class="row__posters">
        

    </div>
</div>

<!-- Comedy Movies -->
<div class="row">
    <h2>The Origin</h2>
    <div class="row__posters">
        

```

```

    </div>
</div>

<!-- Horror Movies -->
<div class="row">
    <h2>Upcoming Projects</h2>
    <div class="row__posters">
        

    </div>
</div>

<script>
    const nav = document.getElementById('nav');
    window.addEventListener('scroll', () => {
        if (window.scrollY >= 100) {
            nav.classList.add('nav__black');
        } else {
            nav.classList.remove('nav__black');
        }
    });
</script>
</body>
</html>

```



## CSS: -

```
* {
  margin: 0;
  box-sizing: border-box;
}

body {
  font-family: Arial, Helvetica, sans-serif;
  background-color: #111;
}

.row__poster {
  width: 100%;
  object-fit: contain;
  max-height: 100px;
  margin-right: 15px;
  transition: transform 250ms;
}

.row__posters {
  display: flex;
  overflow-y: hidden;
  overflow-x: scroll;
  padding: 20px;
}

.row__poster:hover {
  transform: scale(1.08);
}

.row__posters::-webkit-scrollbar {
  display: none;
}

.row__posterXLarge {
  max-height: 275px;
}

.row__posterUpcoming {
  max-height: 200px;
  width: 300;
}
```

```

.row__posterXLarge:hover {
  transform: scale(1.15);
}

.row__posterLarge {
  max-height: 250px;
}

.row__posterLarge:hover {
  transform: scale(1.1);
}

.row__posterMed {
  max-height: 220px;
}

.row__posterMed:hover {
  transform: scale(1.1);
}

.row {
  color: white;
  margin-left: 10px;
}

/* banner */
.banner {

  background-image: url('images/banner.jpeg');
  background-size: cover;
  background-position: center center;
  color: white;
  object-fit: contain;
  height: 448px;

}

.banner__contents {
  margin-left: 30px;
  padding-top: 140px;
  height: 190px;
}

.banner__title {
  font-size: 3rem;
  font-weight: 800;
  padding-bottom: 0.3rem;
}

```

```

.banner__description {
  width: 45rem;
  line-height: 1.3;
  padding-top: 1rem;
  font-size: 0.8rem;
  max-width: 360px;
  height: 180px;
}

.banner__button {
  cursor: pointer;
  color: #fff;
  outline: none;
  border: none;
  font-weight: 700;
  border-radius: 0.2vw;
  padding-left: 2rem;
  padding-right: 2rem;
  margin-right: 1rem;
  padding-top: 0.5rem;
  padding-bottom: 0.5rem;
  background-color: rgba(51, 51, 51, 0.5);
}

.banner__button:hover {
  color: #000;
  background-color: #e6e6e6;
  transition: all 0.2s;
}

.banner--fadeBottom {
  margin-top: 145px;
  height: 7.4rem;
  background-image: linear-gradient(180deg, transparent, rgba(37, 37, 37, 0.61),
#111);
}

/* nav */

.nav__logo {
  width: 120px;
  object-fit: contain;
}

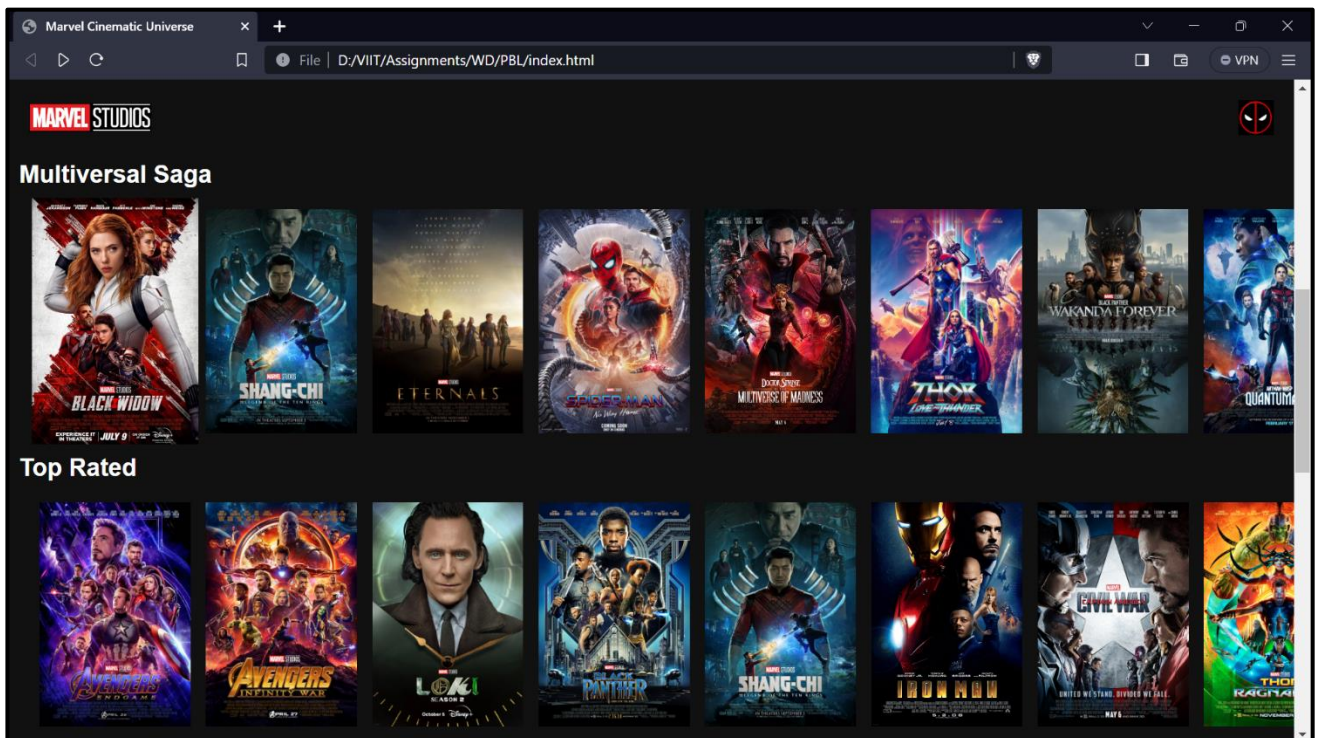
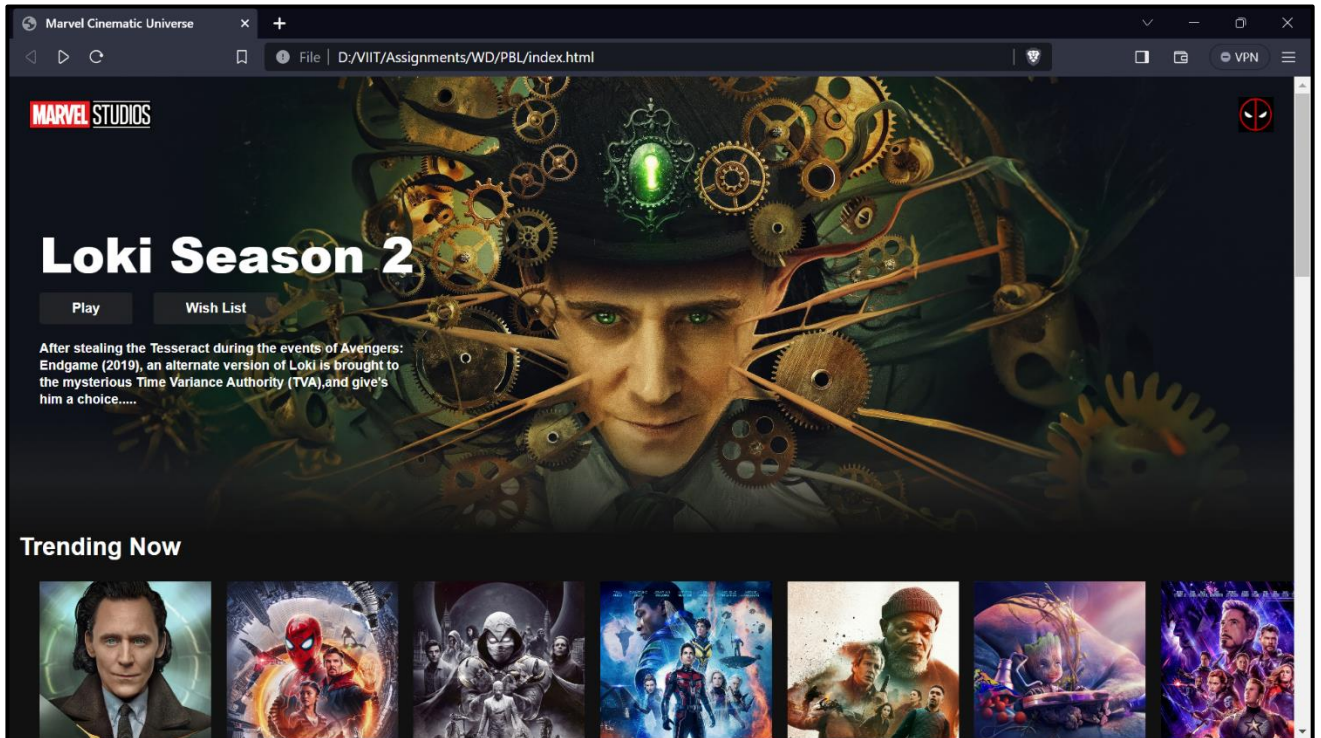
.nav__avatar {
  width: 35px;
  object-fit: contain;
}

```

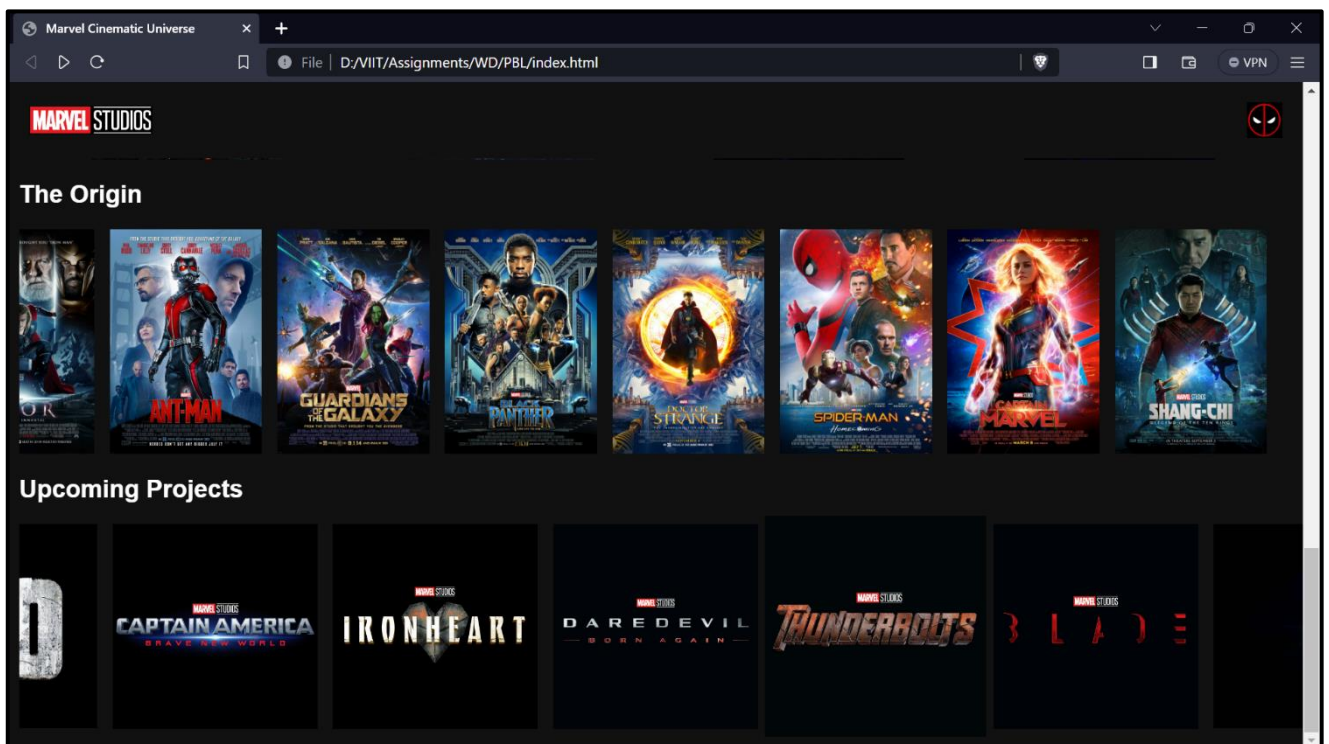
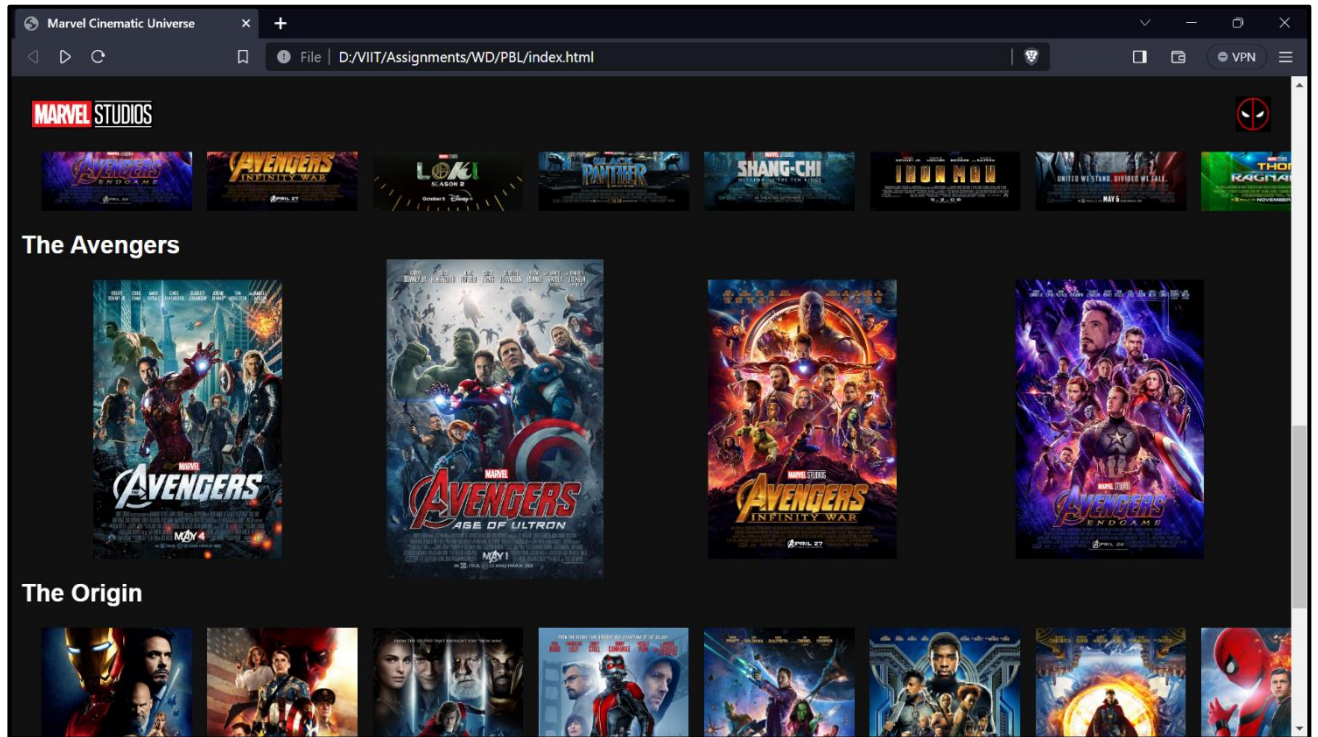
```
}  
  
.nav {  
  position: fixed;  
  top: 0;  
  width: 100%;  
  display: flex;  
  justify-content: space-between;  
  padding: 20px;  
  /* background-color: #111; */  
  z-index: 1;  
  transition-timing-function: ease-in;  
  transition: all 0.5s;  
}  
  
.nav__black {  
  background-color: #111;  
}
```

# Chapter 8

## Output Screenshots







# Chapter 9

## Conclusion

The Marvel Studios OTT Homepage Project culminates as a digital haven tailored for Marvel Cinematic Universe (MCU) enthusiasts. Woven with HTML, CSS, and JavaScript, our modular approach yields a seamlessly navigable platform, integrating dynamic features and responsive design principles. The technology stack, including version control and hosting considerations, empowers collaborative development, ensuring a robust and scalable platform.

In our pursuit of inclusivity, accessibility takes center stage. Semantic HTML, image alt text, and a commitment to universal access reflect our dedication to creating a web environment welcoming to all enthusiasts, regardless of ability.

As the MCU unfolds, our project remains poised for evolution. The modular design allows for seamless updates and future integrations, aligning with the ever-expanding Marvel universe. Responsive design ensures accessibility across devices, offering a consistent digital Marvel experience globally.

The Marvel Studios OTT Homepage Project is more than a digital destination; it is a homage to Marvel storytelling and its global community. It encapsulates the MCU's essence in every pixel and line of code. As the MCU evolves, so does our project, standing ready to provide an enduring digital haven for Marvel enthusiasts worldwide. In this concluding chapter, the synergy of technology and creativity is celebrated, marking the successful journey from concept to a rich, immersive digital experience for the Marvel faithful.

# Chapter 10

## References

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- <https://developer.mozilla.org/en-US/docs/Learn/HTML>
- <https://www.geeksforgeeks.org/html/>
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- <https://www.programiz.com/html>
- <https://www.tutorialspoint.com/html/index.htm>