"The Marvel"

A

PBL Report

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SAGE University, Bhopal, M.P.

in partial fulfilment of the requirements for the award of the Degree of

BTech CSE (Hons) Specialization in

Full Stack Development

II Semester

By

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SCHOOL OF ADVANCED COMPUTING

SANJEEV AGRAWAL GLOBAL EDUCATIONAL UNIVERSITY, BHOPAL
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CERTIFICATE

This is to certify that the work embodies in this project entitled "**The Marvel**" being submitted by Milind Randive – 230971, Anurag Gour – 230559, Devansh Agrawal - 232132 in partial fulfilment of the requirement for the award of the degree of **BTech CSE (FSD)** to School of Advanced Computing, Sanjeev Agrawal Global EducationalUniversity, Bhopal (M.P) during the academic year **2023-24** is a record of Bonafide piece of work, undertaken by him under the supervision of the undersigned.

Kapil Agarwal Sir   **Dr Pinaki Ghosh**
PBL teacher   **HOS, SSOAC**
(GUIDE)

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CERTIFICATE OF APPROVAL

The Project entitled **"The Marvel"** being submitted by Milind Randive – 230971, Devansh Agrawal -232132, Anurag Gour – 230559 has been examined by us and is hereby approvedfor the award of the degree of **BTech CSE (FSD)** for which it has been submitted. It is understood that by this approval the undersigned do not necessarily endorse or approve any statement made, opinion expressed or conclusion drawn there in, but approve the project only for the purpose for which it has been submitted.

(Internal Examiner)   (External Examiner)

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DECLARATION

I hereby declare that the work, which is being presented in this project entitled **"The Marvel"** for fullfillment of the requirements for the award of the degree of **BTech CSE (FSD)** submitted in the School of Advanced Computing, Sanjeev Agrawal Global Educational University, Bhopal, M.P. is an authentic record of my own work carried under the guidance of **"Kapil Agarwal Sir"**. I have not submitted the matter embodied in this report for the award of any other degree.

I also declare that "A check for Plagiarism has been carried out on this report and is found within the acceptable limit."

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ABSTRACT

<u>Understanding the Basics of a The Marvel</u>

This project is a comprehensive web layout focusing on Marvel movies and associated media. It features a responsive design that adapts to different devices, enhancing user accessibility. Key components include: The basic functionalities of a The Marvel include:

☐ **Header Section:**

- **User Menu:** Contains avatar logo and buttons for "Login" and "Join".
- **Marvel Logo:** Central Marvel logo linking to the homepage.
- **Subscription Box:** Links to Marvel Unlimited subscription.
- **Search Bar:** Search input with a button.
- **Navigation Bar:** Links to different Marvel-related sections (News, Comics, Characters, Movies, TV Shows, Games, Video, More).

☐ **Modals:**

- **Login Modal:** A modal for user login, prompting users to enter their email to continue.
- **Join Modal:** A modal for new users to join, with details about benefits and email input for registration.

☐ **Main Content:**

- **Marvel Promotion Banner:** Promotes streaming X-Men '97 on Disney+.
- **Featured Content:** A large image of Deadpool promoting related content.
- **Tabs Component:** Links to different Marvel content like trailers, new comics, and free comics.
- **Social Links:** Icons for Facebook, Twitter, Instagram, and TikTok.

☐ **Highlighted Comics Section:**

- **Comics Thumbnails:** Several horizontal sections displaying thumbnails of different Marvel comics with titles and release years.

☐ **Sub-Tabbed Layout:**

- **Tab Elements:** Additional promotional tabs for new comics, Marvel Insider, and free Infinity Comics.
- **Marvel Videos:** Thumbnails and links to Marvel videos like X-Men '97, Deadpool & Wolverine trailer, and new comics.

☐ **Footer Section:**

- **Marvel Footer:** Social media links and navigation links for "About Marvel", "Help/FAQs", "Careers", and "Internships".
- **Footer Logo:** Additional branding and links.

☐ **User Authentication:**

- **Login Modal:** Allows users to log in by entering their email. A modal popup guides the user through the login process.
- **Join Modal:** Enables new users to register by entering their email and presents the benefits of joining the Marvel community.

☐ **Navigation and Search:**

- **Navigation Bar:** Provides links to various Marvel-related sections (e.g., News, Comics, Characters, Movies, TV Shows, Games, Video, More) for easy access.
- **Search Bar:** Allows users to search for content across the Marvel site.

☐ **Content Display:**

- **Promotion Banner:** Highlights and promotes featured Marvel content, such as streaming series or special events.
- **Featured Content Section:** Showcases prominent Marvel characters and promotions, encouraging users to explore related content.
- **Tabs Component:** Offers quick links to different Marvel content categories like trailers, new comics, and free comics.

This Marvel Movies website aims to cater to fans by providing a visually appealing and interactive platform to explore the Marvel Cinematic Universe, comics, and related media.

TABLE OF CONTENTS

THE MARVEL

Fig 1.0

Chapter – 01

Introduction

This chapter gives an overview about the aim and objective of this project.

1.1   AIM

The aim of the project, as inferred from the HTML code, is to create a dynamic and engaging Marvel-themed website that serves as a comprehensive hub for Marvel fans. the project's aim is to create an immersive, user-friendly, and comprehensive Marvel-themed website that not only serves as a valuable resource for Marvel fans but also fosters community engagement and promotes the Marvel brand.

OBJECTIVE

The primary objective of the code is to develop a comprehensive and interactive Marvel-themed website. The website is designed to offer Marvel fans an engaging platform to explore various Marvel content, including news, comics, characters, movies, TV shows, games, and videos. Marvel-themed website that serves as a central hub for Marvel fans, promotes Marvel content, and builds a community around the Marvel brand.

The code aims to achieve the following objectives:

- **User Interface and Experience:**
- **Content Organization and Navigation:**
- **User Interaction and Engagement:**
- **Content Promotion and Marketing:**
- **Community Building:**

1.2 Scope and Motivation

➤ Scope:

The scope of the project encompasses the development of a fully functional and interactive Marvel-themed website. The project includes the following key components:

- **User Interface Development:**

- Design and implement a visually appealing and intuitive layout.
- Ensure responsive design for compatibility across various devices.

- **Content Management:**

- Organize content into distinct sections such as news, comics, characters, movies, TV shows, games, and videos.
- Implement features to highlight trending and popular Marvel content.

- **User Authentication and Interaction:**

- Develop modals for user login and registration.
- Implement search functionality for easy navigation.

- **Promotional Features:**

- Integrate promotional sections for Marvel Insider and Marvel MasterCard.
- Highlight new releases and featured content.

- **Community Engagement:**

- Incorporate social media links to foster community building.
- Provide registration features to create a user community.

- **Support and Information:**

- Include links to help and FAQ sections.
- Inform users about career and internship opportunities at Marvel.

➤ Motivation:

The motivation behind this project is driven by several key factors:

☐ Fan Engagement:

- Provide Marvel fans with a centralized platform to explore and enjoy a wide range of Marvel content.
- Enhance fan interaction and engagement through an intuitive and interactive user interface.

☐ Brand Promotion:

- Promote Marvel's diverse content, including new releases and popular items.
- Highlight promotional initiatives like Marvel Insider and Marvel MasterCard to boost user participation and brand loyalty.

☐ Community Building:

- Foster a sense of community among Marvel fans by integrating social media links and providing user registration features.
- Encourage users to connect and interact, creating a vibrant and engaged fan base.

☐ User Experience:

- Ensure a seamless and enjoyable user experience through responsive design and intuitive navigation.
- Provide support and information to assist users with common questions and issues.

☐ Career Opportunities:

- Inform users about career and internship opportunities within Marvel, attracting potential talent and fostering interest in the brand.

Overview of the project

This project aims to create a dynamic, interactive, and engaging platform for Marvel fans worldwide, promoting Marvel's content, building a strong community, and enhancing the overall user experience. The primary objective of this project is to develop an interactive, user-friendly, and visually appealing Marvel-themed website. The website aims to serve as a comprehensive platform for Marvel fans to explore, engage with, and enjoy various Marvel content, including news, comics, characters, movies, TV shows, games, and videos.

2.1 Programing language used :-

HTML The primary language used in the development of the Marvel-themed website project is **HTML** (HyperText Markup Language). HTML is the standard language for creating and structuring content on the web.

In addition to HTML, this Marvel-themed website project utilizes **CSS (Cascading Style Sheets)** and **JavaScript** to enhance the website's appearance and functionality.

CSS is used for styling HTML elements, making the web pages visually appealing and user-friendly. It helps separate the content from the presentation, allowing for greater flexibility and control over the design of the website.

JavaScript is used to add interactivity and dynamic behavior to the website. It allows for the creation of more engaging and functional web pages by enabling user interactions, manipulating the DOM (Document Object Model), and handling events.

HTML:-

```
1   <!DOCTYPE html>
2   <html>
3   <head>
4       <title>Marvel - Official Site</title>
5       <link rel="stylesheet" type="text/css" href="styles.css">
6       <script src="scripts.js"></script>
7   </head>
8   <body>
9       <header>
10          <nav>
11              <ul>
12                  <li><a href="#home">Home</a></li>
13                  <li><a href="#news">News</a></li>
14                  <li><a href="#comics">Comics</a></li>
15                  <li><a href="#characters">Characters</a></li>
16                  <li><a href="#movies">Movies</a></li>
17                  <li><a href="#tvshows">TV Shows</a></li>
18                  <li><a href="#games">Games</a></li>
19                  <li><a href="#videos">Videos</a></li>
20              </ul>
21          </nav>
22      </header>
```

CSS:-

```
1   body {
2       font-family: Arial, sans-serif;
3       margin: 0;
4       padding: 0;
5       background-color: #f4f4f4;
6   }
7
8   header {
9       background-color: #333;
10      color: #fff;
11      padding: 10px 0;
12      text-align: center;
13  }
```

JavaScript:-

```
1   // Get the modal
2   var modal = document.getElementById('loginModal');
3
4   // Get the button that opens the modal
5   var btn = document.getElementById('loginBtn');
6
7   // Get the <span> element that closes the modal
8   var span = document.getElementsByClassName('close')[0];
9
10  // When the user clicks the button, open the modal
11  btn.onclick = function() {
12      modal.style.display = 'block';
13  }
```

The Marvel-themed website is a project designed to provide information and interactive features related to Marvel characters and their respective movies. Here's a detailed explanation of how the website works:

Structure and Layout

The website is structured using HTML for content, CSS for styling, and JavaScript for interactivity.

HTML (HyperText Markup Language):

- HTML is used to create the structure and content of the web pages.
- It defines various sections of the website such as the header, navigation menu, main content area, and footer.

```
<header>
    <nav>
        <ul>
            <li><a href="index.html">Home</a></li>
            <li><a href="characters.html">Characters</a></li>
            <li><a href="movies.html">Movies</a></li>
            <li><a href="login.html" id="loginBtn">Login</a></li>
        </ul>
    </nav>
</header>
```

-

CSS (Cascading Style Sheets):

- CSS is used to style the HTML elements and control the layout.
- It ensures a responsive design, making the website look good on different devices and screen sizes.
- CSS also adds visual enhancements such as colors, fonts, spacing, and animations.

```
nav ul {
    list-style-type: none;
    margin: 0;
    padding: 0;
    overflow: hidden;
    background-color: #333;
}

nav ul li {
    float: left;
}
```

JavaScript:

- JavaScript is used to add interactivity and dynamic behavior to the website.
- It handles user interactions, such as clicking buttons, submitting forms, and loading dynamic content.
- JavaScript also manages data fetching and DOM manipulation to update the web pages in real-time.

```
// Fetch character data and update the profile section
function loadCharacterProfile(characterId) {
    fetch(`        acters/${characterId}`)
        . Loading... hse => response.json())
        .then(data => {
            document.getElementById('character-name').innerText = data.name;
            document.getElementById('character-description').innerText = data.description;
            document.getElementById('character-image').src = data.imageUrl;
        });
}
```

Key Features and Functionality

1. **Navigation:**
   - The website features a navigation menu that allows users to browse different sections, such as the home page, character profiles, and movies list.
   - The navigation menu is styled using CSS and can include dropdowns or collapsible menus for better organization.

2. **Character Profiles:**
   - Each Marvel character has a dedicated profile page that provides detailed information, including their background, abilities, and appearances in movies.

- o The profiles are populated with data fetched from a server or a local JSON file using JavaScript.
- o CSS styles the profiles to ensure a visually appealing and consistent layout.

3. **Movies List:**
   - o The movies list page provides information about Marvel movies, including their titles, release dates, and summaries.
   - o Users can click on a movie to view more details, which are dynamically loaded using JavaScript.
   - o The layout and presentation of the movies list are controlled by CSS.

4. **User Authentication:**
   - o The website includes a user authentication feature that allows users to log in and log out.
   - o A modal (popup) is used for the login form, which is displayed using JavaScript when the user clicks the login button.
   - o JavaScript validates the form inputs and manages the login process.

5. **Dynamic Content Loading:**
   - o JavaScript fetches data from external sources (e.g., APIs) or local files and updates the web pages without requiring a full page reload.
   - o This improves the user experience by providing a seamless and interactive browsing experience.

6. **Responsive Design:**
   - o The website is designed to be responsive, meaning it adapts to different screen sizes and devices.
   - o CSS media queries are used to adjust the layout and styling based on the device's screen width.
   - o This ensures that the website is accessible and user-friendly on desktops, tablets, and mobile devices.

Use of the Marvel-Themed Website in Society

The Marvel-themed website is a multifaceted platform that provides entertainment, information, and community engagement for Marvel fans. It promotes learning, creativity, and social interaction, making it a valuable resource for both individual users and the broader community.

1. Entertainment and Engagement:

- **Fan Engagement:** The website acts as a hub for Marvel fans, providing them with detailed information about their favorite characters and movies.
- **Interactive Features:** Fans can interact with various features such as quizzes, polls, and forums, enhancing their engagement and enjoyment.

2. Community Building:

- **Fan Community:** The website can foster a sense of community among Marvel fans by offering forums and discussion boards where fans can share their thoughts, theories, and fan fiction.
- **Events and Meetups:** Information about Marvel-related events, meetups, and conventions can be shared, helping fans connect in real life.

3. Accessibility and Inclusivity:

- **Accessible Information:** By providing information about Marvel characters and movies in an organized and easy-to-navigate format, the website makes this content accessible to a wider audience, including those who may not have access to other sources.
- **Inclusive Community:** The website can promote inclusivity by featuring diverse characters and storylines, reflecting Marvel's commitment to diversity.

4. Content Creation and Sharing:

- **User-Generated Content:** Fans can contribute their own content, such as fan art, videos, and stories, creating a rich repository of creative work.
- **Social Media Integration:** The website can integrate with social media platforms, allowing users to share content and updates with their networks, increasing visibility and reach.

5. Learning and Development:

- **Storytelling and Creativity:** Fans, especially younger ones, can learn about storytelling and character development by exploring the detailed backgrounds of Marvel characters.
- **Technical Skills:** Aspiring web developers and designers can learn from the website's use of HTML, CSS, and JavaScript, understanding how these technologies are applied in real-world projects.

User interaction

The Marvel-themed website is designed to be user-friendly, engaging, and accessible, offering a seamless experience across various devices. By providing detailed information on Marvel characters and movies, integrating interactive features, and ensuring accessibility, the website aims to be a valuable resource for Marvel fans and casual visitors alike.

Homepage:

- Hero Section**:** Upon visiting the homepage, users are greeted with a visually appealing hero section, featuring a prominent Marvel image, headline, and call-to-action buttons (e.g., "Explore Characters," "View Movies").
- Navigation Menu: Users can easily navigate to different sections of the website using the navigation menu, typically located at the top of the page. Common links include Home, Characters, Movies, and Contact Us.

Characters Section:

- Character Listings: Users can browse through a list of Marvel characters. Each character entry typically includes an image, name, and a brief description.
- Detailed View: Clicking on a character's name or image takes the user to a detailed view page, providing more in-depth information about the character, such as their backstory, abilities, and appearances in movies or comics.

Movies Section:

- Movie Listings: Similar to the Characters section, users can view a list of Marvel movies with images, titles, and release dates.
- Detailed View: Clicking on a movie title or image provides detailed information about the movie, including a synopsis, cast, director, and trailers.

Search Functionality:

- Search Bar: Users can use the search bar, usually located at the top of the page, to quickly find specific characters or movies by entering keywords.

Interactive Features:

- Forms**:** Users can fill out forms to contact the website administrators, provide feedback, or subscribe to newsletters. Forms usually include fields for name, email, and message.
- Interactive Elements: JavaScript-powered interactive elements, such as dropdown menus, image sliders, and modals, enhance the user experience by making the website more dynamic and responsive.

Responsive Design:

- Device Compatibility: The website's responsive design ensures it works well on various devices, including desktops, tablets, and smartphones. This means users can enjoy a consistent and optimized experience regardless of the device they use.

Accessibility Features:

- Inclusive Design: Accessibility features such as keyboard navigation, screen reader compatibility, and appropriate color contrast ensure that the website is usable by people with disabilities.

User Feedback and Analytics:

- Feedback Forms: Users can provide feedback through designated forms, helping the website administrators understand user preferences and areas for improvement.
- Analytics Tracking: The website uses analytics tools to track user behavior, such as page views, click patterns, and time spent on pages. This data helps improve the website's content and functionality based on user interactions.

Social Media Integration:

- Sharing Options: Users can share content from the website on their social media platforms using integrated sharing buttons. This helps spread the word about the website and engage a broader audience.

API Integration:

- The website may use APIs to fetch real-time data about Marvel characters and movies from external databases. This ensures that the information presented is up-to-date and comprehensive