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Submission Date	2024-03-25 23:15:43
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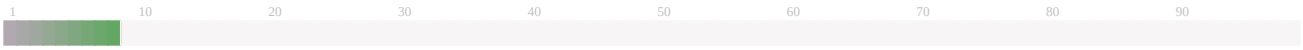

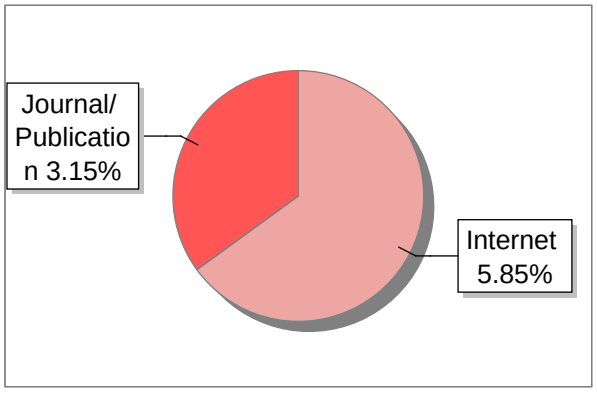

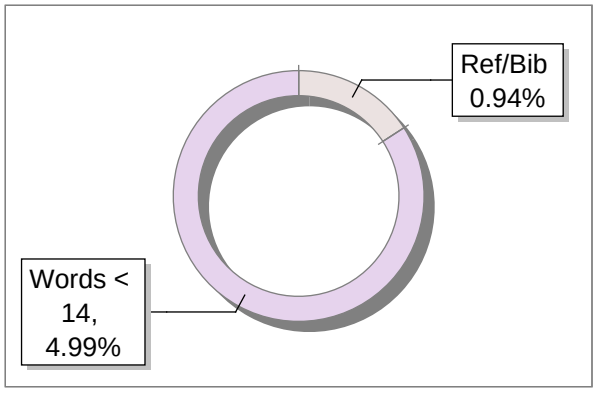

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PROJECT TITLE :- TIC TAC TOE

A Micro Project Report

Submitted by

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BONAFIDE CERTIFICATE

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Abstract

- Building a website using HTML, CSS, JavaScript, AngularJS, and React involves integrating various technologies to create a dynamic and interactive web experience.

- HTML (Hypertext Markup Language) provides the structure for the website, defining elements such as headings, paragraphs, images, and links. CSS (Cascading Style Sheets) is used for styling and layout, allowing developers to customize the appearance of HTML elements.

- JavaScript is a powerful scripting language that adds interactivity to web pages. It enables features such as form validation, animations, and dynamic content loading. AngularJS and React are popular JavaScript frameworks/libraries that facilitate the development of single-page applications (SPAs) by providing tools for building reusable components, managing state, and handling data flow.

- Integrating AngularJS or React into the website allows for the creation of complex user interfaces with enhanced performance and maintainability. These frameworks utilize concepts such as data binding, component-based architecture, and virtual DOM (in the case of React) to streamline development and improve the user experience.

Contents

List of Figures

CHAPTER 1

1.1 TITTLE OF THE PROJECT:

Build website with HTML, Javascript, Angularjs, and React specialization

1.2 INTRODUCTION:

Welcome to the world of Tic-Tac-Toe, where strategy and wit collide in a classic battle for

three in a row. Take turns, mark your Xs and Os, and aim to outsmart your opponent in

this timeless game of tactics. Let the fun and competition begin!

Why 'TIC TAC TOE'?

Tic-Tac-Toe is a popular game due to its simplicity and universal appeal, with three key

points:
Simplicity: It's easy to learn and play, making it accessible to all age groups.

Quick Matches: Games are fast, offering instant gratification and multiple rounds. Strategy: Despite its simplicity, Tic-Tac-Toe involves strategic thinking, making it engaging

and competitive.

CHAPTER 2

2.1 HTML

Hyper Text Markup Language (HTML) is the backbone of the World Wide Web, providing the

structure and content of web pages.

HTML uses a system of tags and elements to define the structure and layout of a web document,

such as headings, paragraphs, links, and images.

It is a markup language, not a programming language, primarily responsible for creating the visual

structure of web pages.

HTML5, the latest version, introduced new elements and features to enhance multimedia,

accessibility, and mobile compatibility.

Understanding HTML is essential for web developers and designers, as it forms the foundation of

web content and is a fundamental skill for anyone working in the field of web development.

2.2 CSS

Cascading Style Sheets (CSS) is a fundamental web technology used to control the presentation and layout of web content.

It separates the content (HTML) from its visual styling, allowing for flexibility and consistency in web design.

CSS uses selectors to target HTML elements and apply properties like colors, fonts, spacing, and more.

It supports responsive design, enabling web pages to adapt to various screen sizes and devices.

CSS is a critical tool for creating visually appealing and user-friendly websites, making it an essential skill for web developers and designers.

Figure 2.2: Starting phase

CHAPTER 3

3.1 JAVASCRIPT:

Versatile Language: JavaScript is a versatile and high-level programming language primarily used for web development, but it can also be applied to server-side development and more.

Client-Side Power: JavaScript is crucial for client-side web development, enabling dynamic and interactive websites through Document Object Model (DOM) manipulation.

Broad Adoption: JavaScript is widely adopted, with an extensive ecosystem of libraries and frameworks like React, Angular, and Node.js that facilitate both front-end and back-end development.

Asynchronous Programming: JavaScript supports asynchronous programming, allowing tasks like fetching data from servers to be handled without blocking other processes, enhancing user experience.

Cross-Platform: JavaScript can run on various platforms, including web browsers, mobile devices, and server environments, making it a fundamental language for modern software development.

3.2 ANGULARJS:

AngularJS is a JavaScript-based open-source front-end web framework.

AngularJS uses the concept of scope or controller.

AngularJS has a simple syntax and used on HTML pages along with the source location.

Angular is a JavaScript (actually a TypeScript based open-source full-stack web application) framework which makes you able to create reactive Single Page Applications (SPAs). Angular 7 is completely based on components. It consists of several components which forms a tree structure with parent and child components.

Angular's versions beyond 2+ are generally known as Angular only. The very first version Angular 1.0 is known as AngularJS.

AngularJS is a simple JavaScript file which is used with HTML pages and doesn't support the features of a server-side programming language.

CHAPTER 4

4.1 USAGE OF TOOLS:

It provides a powerful, well-rounded development approach. HTML serves as the backbone for structuring your web content, defining the page layout and presenting information. It's the core markup language for web development, allowing you to create a structured foundation for your site's design and content.

JavaScript is essential for enhancing the interactivity and dynamic behavior of your website. AngularJS and React, both JavaScript frameworks, bring advanced functionality to the table. AngularJS offers a robust, opinionated framework for creating single-page applications, handling data binding and managing the application's flow efficiently. React, on the other hand, focuses on building user interfaces with a component-based architecture, making it an excellent choice for creating complex, highly responsive web applications. By incorporating both AngularJS and React, you can leverage their strengths in different aspects of your website, ensuring a rich, engaging user experience.

In summary, HTML provides structure, JavaScript adds interactivity, AngularJS streamlines application development, and React excels in creating interactive and modular user interfaces. Combining these technologies empowers web developers to create feature-rich, efficient, and visually appealing websites that can cater to a wide range of user needs and preferences.

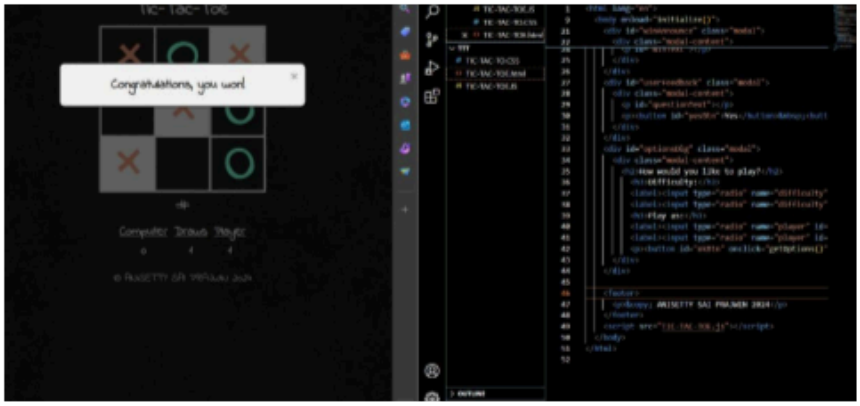

Figure 4.1: SOS

4.2 REPORTED LITERATURE:

4.2.1 PAPER-1:

AngularJS and ReactJS, within the context of front-end web development. JavaScript is pivotal in web development for its role in interactivity, with ReactJS & AngularJS amplifying its significance. This research explores the debate between these frameworks, noting that AngularJS, created by Google, emphasizes efficiency, while ReactJS, developed by Facebook, emphasizes scalability and cleaner code. The paper's performance tests reveal that ReactJS outperforms AngularJS in terms of Response Time and Page Load Time, despite having a larger Size of Code. This provides valuable insights for developers & organizations choosing the right framework for optimal web application performance.

In summary, the comparison of two JavaScript frameworks, AngularJS and ReactJS, in front-end web development. JavaScript's role in web interactivity is emphasized, with ReactJS and AngularJS being popular choices. The research highlights the ongoing debate within the development community about the superiority of these frameworks. Ultimately, the paper's performance tests show that ReactJS excels in Response Time and Page Load Time, despite a larger Code Size. This research aids developers and orga-

nizations in selecting the right framework for optimal web application performance.

4.2.2 PAPER -2:

AngularJS and ReactJS, within the context of front-end web development. This underscores JavaScript's pivotal role in modern web development, where it facilitates interactivity and responsiveness. With the emergence of potent frameworks like ReactJS and AngularJS, JavaScript's significance is amplified, empowering developers to create dynamic single-page web applications. The paper highlights the persistent debate among developers when it comes to choosing between these frameworks, each with its unique strengths. AngularJS, hailing from Google, is celebrated for its user-friendliness and efficiency, particularly in single-page applications, while ReactJS, developed by Facebook, prioritizes scalability, superior performance, & clean code syntax.

In summary, this illuminates the ongoing discourse in the realm of JavaScript development, offering empirical evidence that positions ReactJS as a superior choice for front-end web dev, particularly concerning website performance metrics. This research

offers valuable guidance to developers and organizations, aiding them in making informed decisions about selecting the optimal framework to achieve peak performance in their web dev projects

4.3 OBJECTIVES OF THE PROJECT:

The objective of building a website with HTML, JavaScript, AngularJS, and React can be summarized in 3 key points: **Front-End Web Development Mastery**: The goal is to develop proficiency in front-end web technologies such as HTML, JavaScript, AngularJS, and React to create interactive, responsive, and visually appealing websites.

Enhanced User Experience: By leveraging these technologies, the objective is to build websites that offer a superior user experience, with dynamic content, smooth

navigation, and the ability to handle complex interactions.

Versatility and Skill Development: Learning to work with these tools provides versatility and a broad skill set, enabling developers to meet diverse project requirements and stay current in the ever-evolving field of web development

4.4 TIME LINE OF WORK PROPOSAL:

Here is a timeline for an 8-week project to build a website with HTML, JavaScript, AngularJS, and React: **1.Week 1-2: Project Planning and Design**
i.- Week 1: Define project scope, objectives, and requirements.

ii.- Week 2: Create wireframes, mockups, and design the website's layout and user interface.

2.Week 3-4: HTML and Initial Setup
i.- Week 3: Start with the basic HTML structure and layout.

ii.- Week 4: Integrate AngularJS for dynamic content and initial setup of React components.

3.Week 5-6: AngularJS Development
i.- Week 5: Develop interactive features using AngularJS, such as form handling and data binding.

ii.- Week 6: Perform testing and debugging of AngularJS components.

4.Week 7-8: React Development and Testing
i.- Week 7: Develop additional complex features using React components, such as dynamic routing and state management.

ii.- Week 8: Final testing, debugging, and integration of React components with the existing project.

5.Week 8+: Review, Deployment, and Documentation
i.- Complete a thorough project review and testing.

ii.- Prepare the website for deployment on a web server or hosting platform.

iii.- Create documentation for the codebase and the website's functionality.

iv.- Conduct a final user acceptance test.
v.- Launch the website.

Please note that this is a general guideline, and the actual timeline may vary based on the project's complexity, team size, and specific requirements. Be sure to adjust the schedule as needed and allocate time for unforeseen issues or adjustments.

5.1 CONCLUSION:

- Building a website with HTML, JavaScript, AngularJS, and React typically involves several steps. Here are eight high-level steps to guide you through the project: **1.Project Planning and Design:**
i.Define the website's purpose, target audience, and key features.

ii.Create a wireframe or mockup of the website's layout and design.

2.Set Up Your Development Environment:
iii.Install code editors like Visual Studio Code.

iv.Set up a version control system like Git to track changes.

3.HTML Structure:
i.Create the basic structure of your web page using HTML.

ii.Define the layout, headings, paragraphs, and other essential elements.

4.JavaScript Integration:
i.Include JavaScript in your HTML file to add interactivity.

ii.Start with simple tasks like handling form submissions or creating interactive buttons.

5.AngularJS Integration:

i.Add AngularJS to your project by including it via CDN or npm.

ii.Use AngularJS to create dynamic content and handle user interactions, such as data binding, controllers, and directives.

6.React Integration:

i.Add React to your project by including it via npm or yarn.

ii.Create React components for different parts of your website, enabling a more efficient and modular development process.

7.Styling and CSS:

i.Apply CSS to style your website, making it visually appealing.

ii.Consider using CSS frameworks like Bootstrap or Materialize for responsive design.

8.Testing and Deployment:

i.Test your website on different browsers and devices to ensure compatibility.

ii.Once satisfied, deploy your website to a web server or hosting service for public access.

5.1.1 RESULT:

Figure 5.1.1: Result

5.2SUMMARY:

Building a website with HTML, JavaScript, AngularJS, and React offers a comprehensive approach to modern web development. HTML serves as the foundational markup language for creating the structure and content of web pages. It provides a standardized way to organize text, images, and other media on the site. JavaScript, on the other hand, is essential for adding interactivity and dynamism to the website. It allows developers to create responsive features and manipulate the Document Object Model (DOM) for a seamless user experience.

AngularJS, a JS framework, brings a powerful toolset for creating dynamic single-page applications. With its two-way data binding and dependency injection, AngularJS simplifies development by providing a structured & organized approach. It encourages use of reusable components, making it easier to maintain and scale complex web applications.

React, another JS library, excels in building user interfaces. It employs a component-based architecture, enabling developers to create reusable UI components. React's virtual DOM efficiently updates only the parts of a web page that have changed, improving performance.

Combining HTML, JS, AngularJS, and React allows for the creation of dynamic, interactive, & scalable websites, providing a robust foundation for modern web development projects.

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7.CERTIFICATE:

Figure 7:Certificate