A
Report
on
WEB DEVELOPMENT INTERNSHIP

Submitted in partial fulfilment of the requirement for the award
of
BACHELOR OF TECHNOLOGY
IN
COMPUTER SCIENCE ENGINEERING

Submitted by:
Yeramareddy Dhanush Sai Reddy
(20103073)

Submitted to –
Prof. Princy Matlani,
Assistant Professor,
Department of Computer Science Engineering,
Guru Ghasidas Vishwavidyalaya

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING,
SCHOOL OF STUDIES OF ENGINEERING & TECHNOLOGY,
A CENTRAL UNIVERSITY
BILASPUR, CHHATTISGARH
2023-2024

CERTIFICATE OF

COMPLETION

This certificate is Proudly Presented to

Y Dhanush Sai Reddy

*This is to certify that the candidate has successfully completed a one-month virtual internship in **web development and design**. During this internship, he/she showed consistency, determination, and active participation and completed all tasks on time.*

FOUNDER

05 JULY 2023

Date

Contact@txon.in   www.txon.in   CIN: TXN23WD2010

2. Introduction of Technologies Learnt

Web development is the process of creating websites and web applications that are accessible via the internet. It involves a combination of skills and technologies used to design, develop, and maintain websites and web applications. Web development can range from creating simple static web pages to complex dynamic web applications. It encompasses various aspects such as web design, front-end development, back-end development, and web server configuration. Web developers use different programming languages, frameworks, and tools to build interactive and responsive websites that can be accessed on different devices, including computers, tablets, and smartphones. Web development plays a crucial role in the digital age, enabling businesses, organizations, and individuals to establish an online presence, share information, and interact with users worldwide.

Web development is a multifaceted field that encompasses the creation and maintenance of websites and web applications. It involves a combination of programming, design, and server management skills to produce functional and visually appealing online experiences. Web developers use various technologies and tools to bring websites to life, allowing businesses, organizations, and individuals to establish an online presence and reach a global audience.

One of the fundamental components of web development is HTML (HyperText Markup Language), which provides the basic structure for web pages. HTML elements define the different parts of a webpage, such as headings, paragraphs, images, and links. CSS (Cascading Style Sheets) is another crucial technology in web development, used for styling and layout purposes. CSS allows developers to control the visual presentation of web pages, including aspects like colors, fonts, and spacing.

In addition to HTML and CSS, JavaScript plays a pivotal role in web development. JavaScript is a dynamic and versatile programming language that enables developers to create interactive and responsive elements on web pages. With JavaScript, developers can implement features like form validations, animations, and real-time updates, enhancing user engagement and experience.

Web development also involves server-side scripting, where languages like PHP, Python, and Ruby are used. These languages allow developers to create dynamic web pages by processing data on the server and generating dynamic content to be sent to the user's browser. Server-side scripting is crucial for tasks such as form processing, database interactions, and user authentication.

To store and manage data, web developers work with databases such as MySQL, PostgreSQL, or MongoDB. Databases enable the storage and retrieval of information, making websites and applications capable of handling vast amounts of data efficiently.

Furthermore, web development often includes the use of frameworks and libraries that streamline the development process. Frameworks like React, Angular, and Vue.js are popular for building dynamic user interfaces, while Express.js simplifies server-side development in JavaScript. Libraries like jQuery provide pre-written JavaScript code to simplify common tasks, making development faster and more efficient.