

Full Stack Web Development Internship Report

Name: SAJAL MITTAL

Branch: COMPUTER SCIENCE

Sec: C

YEAR: 3

Roll No: 2200290120141

Internship Provider: Microsoft Learn Student Ambassador (MLSA)

Objective of the Internship:

The aim of the Microsoft Learn Student Ambassador (MLSA) internship in Full Stack Web Development was to acquire practical experience in creating engaging and responsive web applications. This program focused on enhancing both frontend and backend development abilities through involvement in real-life projects, mastering database management, and gaining insights into web architecture.

Software and Tools Used:

Throughout the internship, the following software and tools were utilized:

- **Frontend Technologies:** HTML, CSS, JavaScript
- **Version Control:** GitHub
- **Other Tools:** Visual Studio Code (IDE)

Project 1: Todo List Application

As part of the internship, we created a Todo List application to improve our skills and handling user interactions in an event-driven manner.

- **Objective:** To create a simple application where users can add, delete, and manage a list of tasks.

- **Description:** The project focused on creating an interactive web page that allows users to input tasks. Users submit tasks through a form, which are then displayed dynamically in a list. Each task can be deleted individually, with changes updating instantly without needing to refresh the page. This experience provided valuable insights into handling JavaScript events and applying basic CSS for styling.
- **Key Learnings:** This project enhanced skills in JavaScript functions, event handling, while also practicing basic web design with HTML and CSS.

Project 2: SIMPLE CALCULATOR

As part of the internship, we developed a Calculator application to strengthen our skills in user interaction and event-driven programming.

- **Objective:** To create a user-friendly application that performs basic arithmetic operations such as addition, subtraction, multiplication, and division.
Description: The project involved designing an interactive web interface that allows users to input numbers and operations. The calculator updates results dynamically as users interact with the buttons, providing immediate feedback without requiring a page refresh. This experience deepened our understanding of JavaScript event handling and how to manipulate the DOM for real-time updates.
- **Key Learnings:** This project enhanced our proficiency in JavaScript functions and event handling while also allowing us to practice fundamental web design principles using HTML and CSS.

Conclusion:

The MLSA internship offered a thorough learning experience in full-stack web development. Through projects like the Todo List and Calculator applications, I gained a deeper insight into the web development processes. I improved my problem-solving abilities and learned to effectively integrate various technologies and tools. This hands-on approach significantly boosted my confidence in addressing real-world web development challenges.