

Internship Report

Internship Program: Microsoft Learn Student Ambassador (MLSA)

Focus Area: Full Stack Web Development

Intern: Shashwat Singh

Introduction:

During my internship with the Microsoft Learn Student Ambassador (MLSA) program, I focused on enhancing my skills in **Full Stack Web Development**. The program provided an opportunity to work on real-world projects, which helped me build and refine my web development abilities. My primary focus was on both frontend and backend technologies, and I successfully completed two projects during the internship.

Projects Completed:

A. Simple Calculator Project:

- **Objective:**

To create a fully functional web-based calculator using fundamental web development technologies.

- **Technologies Used:**

- **HTML:** Structured the layout and input fields.
- **CSS:** Styled the interface for an intuitive and responsive user experience.
- **JavaScript:** Implemented the logic for mathematical operations such as addition, subtraction, multiplication, and division.

- **Key Features:**

- A clean and simple user interface.
- Functional operations for basic calculations.
- Error handling for invalid inputs.

- **Challenges Overcome:**

- Implementing real-time calculations and ensuring the interface remains user-friendly.

B. Personal Webpage Project:

- **Objective:**

To create a personal portfolio webpage to showcase my skills, education, and projects.

- **Technologies Used:**

- **HTML:** Built the structure and layout of the webpage.
- **CSS:** Designed the webpage for responsiveness and aesthetics.
- **JavaScript (optional, if applicable):** For dynamic behavior (if added).

- **Key Features:**

- Sections for basic personal details, skills, education, and contact information.
- A user-friendly interface with clean navigation.
- Mobile responsiveness for different screen sizes.

- **Challenges Overcome:**

- Ensuring cross-browser compatibility and maintaining a clean design for both desktop and mobile views.

Key Learnings:

- **Frontend Development:**

Gained proficiency in designing and implementing user-friendly interfaces using HTML, CSS, and JavaScript.

- **Problem Solving:**

Enhanced my problem-solving skills, particularly in debugging JavaScript for functionality and logic handling in the calculator project.

- **Project Management:**

The internship helped me understand how to manage small projects, meet deadlines, and continuously improve based on feedback.

Conclusion:

The internship with MLSA in Full Stack Web Development allowed me to gain hands-on experience with web technologies and complete two meaningful projects. This experience has strengthened my skills and prepared me for future opportunities in the field of web development. The projects I completed reflect my growing expertise in creating functional, user-friendly, and aesthetically pleasing websites and applications.

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