Internship Project Report

Microsoft Learn Student Ambassador (MLSA) - KIET

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Introduction

During my internship at KIET as a Microsoft Learn Student Ambassador, I worked on two projects: an easy-level **To-Do List** and an intermediate-level **Weather App**. Both projects were aimed at enhancing my web development skills, using advanced HTML5, CSS, JavaScript, and API integration.

Project 1: To-Do List

1. Objective

The goal of the To-Do List project was to create a simple, interactive application that allows users to manage their daily tasks effectively. This project aimed to familiarize me with creating a dynamic user interface and implementing real-time task updates.

2. Technologies Used

- **HTML5 & CSS**: Structured and styled the webpage for a clean, user-friendly interface.
- **JavaScript**: Added interactivity for real-time task manipulation (adding, editing, and deleting tasks).

3. Key Features

- **Task Management**: Users can add, update, and delete tasks.
- **Responsive Design**: CSS styling ensures a seamless user experience across devices.
- **Local Storage** (if applicable): Tasks can be saved for later use, even after refreshing the page.

4. Key Learnings

This project provided hands-on experience with **DOM manipulation** using JavaScript, **basic storage techniques** for task persistence, and **responsive design principles** with CSS.

Through this project, I improved my understanding of front-end development basics and user experience design.

Project 2: Weather App

1. Objective

The Weather App is an intermediate-level project designed to display real-time weather information for a user-specified location. This project was intended to strengthen my skills in **API integration** and **data handling** in JavaScript, along with a focus on responsive UI design.

2. Technologies Used

- **HTML5 & CSS**: Structured and styled the application for a polished look across devices.
- **JavaScript**: Enabled functionality and interaction with external APIs.
- **Weather API**: Integrated to fetch live weather data for selected cities.

3. Key Features

- **Real-Time Weather Data**: Displays temperature, humidity, wind speed, and other weather details for the specified location.
- **Location Search**: Users can search weather data by city or by enabling their current location.
- **Error Handling**: Built-in mechanisms to manage incorrect or invalid entries, enhancing user experience.

4. Key Learnings

This project expanded my knowledge in **API integration**, particularly in handling JSON data and effectively displaying it on the frontend. I also learned about **error handling** for robust application behavior and gained skills in **data parsing and visualization** using JavaScript.

Conclusion

The internship projects allowed me to deepen my understanding of front-end technologies and sharpen my problem-solving skills. Through the **To-Do List** project, I gained practical experience in DOM manipulation, while the **Weather App** project challenged me to integrate APIs and handle data dynamically. Both projects contributed significantly to my growth as a developer, equipping me with essential skills for future projects.