**CSE 310 – Applied Programming**

**Module Plan**

|  |  |
| --- | --- |
| **Name:** | Dylan Kohn |
| **Date:** | 10/8/2025 |
| **Teacher:** | Jeremiah Pineda |
| **Module # (1-6):** | #2 |

1. Identify which module you have selected to work on. Place an “X” under the “Selected Module” column.

|  |  |
| --- | --- |
| **Modules** | **Selected Module** |
| Cloud Databases |  |
| Data Analysis |  |
| Game Framework |  |
| GIS Mapping |  |
| Mobile App |  |
| Networking |  |
| SQL Relational Databases |  |
| Web Apps |  |
| Language – C++ |  |
| Language – Java |  |
| Language – Kotlin |  |
| Language – R |  |
| Language – Erlang |  |
| Language – JavaScript |  |
| Language – C# |  |
| Language - TypeScript | X |
| Language – Rust |  |
| Choose Your Own Adventure |  |

1. At a high level, describe the software you plan to create that will fulfill the requirements of this module. This may change as you learn more about the technology or language you are learning.

I want to create a simple to do list application. This will ensure that I learn DOM manipulation, interfaces, and events. It will also allow me to learn the TypeScript data types and what it takes to achieve interactions.

1. Create a detailed schedule using the table below to complete your selected module during this Sprint. Include details such as what (task), when (time), where (location), and duration. You are expected to spend 24 hours every Sprint working on this individual module and other activities in the course. Time spent on this individual module should be at least 12 hours.

|  |  |  |
| --- | --- | --- |
|  | **First Week of Sprint** | **Second Week of Sprint** |
| **Monday** | Install node.js and TypeScript. Create my first TypeScript file. | Include local storage persistence |
| **Tuesday** | Learn how Arrays, Objects, and Interfaces work. | Add filters |
| **Wednesday** | Learn the DOM basics of TypeScript | Allow for task editing |
| **Thursday** | Display tasks in the DOM | Learn project management and arrange my project in the correct TypeScript manner |
| **Friday** | Implement add and remove task buttons | Implement drag and drop/reordering of tasks. |
| **Saturday** | Implement mark task as complete button | Add styling and finalize UX |

1. Identify at least two risks that you feel will make it difficult to succeed in this module. Identify an action plan to overcome each of these risks.

The first risk is the speed at which I will have to learn TypeScript. For this I will stick to my plan and do one thing each day. The second risk that I am worried about is setting up the environment to program in TypeScript correctly. For this I will heavily review the documentation so that I am sure that I have it correctly set up.