**CSE 310 – Applied Programming**

**Module Plan**

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| **Name:** | Samuel Smith |
| **Date:** | 1/15/25 |
| **Teacher:** | Brother Pineda |
| **Module # (1-6):** | 1 |

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

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| --- | --- |
| **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 | This One! |
| Language – C# |  |
| Language - TypeScript |  |
| 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 build an application that loads the Walmart API and will eventually scan the barcode of whatever item you have and log it into your pantry so it can be used for recipes or anything else later. I want to handle the data of the API and keep track of what you have in your pantry, as well as notify if items are running low as you use them.

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.

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|  | **First Week of Sprint** | **Second Week of Sprint** |
| **Monday** | 0 | 1hrs: Plan out the exact feature list for this beginner model of the program. |
| **Tuesday** | 0 | 3hrs: Build basic foundation in html and CSS to be able to use the program. |
| **Wednesday** | 0 | 3hrs: build the JS backing for the GUI |
| **Thursday** | 2hrs: Research Walmart API and how to gain access/gain access if I’m lucky! | 3hrs: Connect API calls and backend JS, then begin Building features. |
| **Friday** | 2hrs: Build the code to retrieve the API data and to process it. | 4hrs: Finish features included in the beginning launch of the app. |
| **Saturday** | 0 | 0 |

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.

I’m worried about trying to gain access to walmarts API, I think that might prove to be more difficult than I believe it will be. In the event that I’m not able to access the API then I’ll probably us a generated JSON or google sheets and API instead and leave the 3rd party API stuff for when I’m not under a time constraint.

Secondly, I seem to have quite the issue with scope. I always want to make the apps above and beyond and have all these features and I usually end up never finishing them and burning out. I’m hoping that being on a time constraint and having a very specific plan will help me to stay on track and not go overboard!