**CSE 310 – Applied Programming**

**Module Plan**

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| **Name:** | Connor Babb |
| **Date:** | 9/23/24 |
| **Teacher:** | Nathan Birch |
| **Module # (1-5):** | 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 | X |
| Language – Erlang |  |
| Language – JavaScript |  |
| 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.

The software I want to develop will be a program that can manage a database, by searching, adding, and removing. Since Rust is a very fast language, I think it would be a good exercise. The Database will probably consist of thousands of data entries on a specific subject in a csv or text file.

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 should also include time to work on your team project. You are expected to spend 16 hours every Sprint working on your individual module, team project, and other activities. Time spent on this individual module should be at least 10 hours.

\*All locations will be from my home\*

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|  | **First Week of Sprint** | **Second Week of Sprint** |
| **Monday** | Research(What is Rust used for) – 1 hour | Creating a database in csv/text file, or other – 1 hour |
| **Tuesday** | Installing Rust, creating a simple program – 1 hour | Programming simple interactions with a text file – 1 hour |
| **Wednesday** | Research(Writing functions and UI) – 1 hour | Research(How do I improve my program, maybe ask and use ChatGPT at this point) – 1 hour |
| **Thursday** | Research(creating a database for a program to manage) – 1 hour | Programming changes researched from day before |
| **Friday** | Programming with functions in Rust – 2 hours | Comple program with full functionality – 1 hour |
| **Saturday** | Bug fix UI so the user can execute the functions in the code without database functionality – 1 hour | Final bug fix/testing – 1 hour |

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.

One: Inability to get a grasp on the language in a quick enough manner.

Two: Making sure the project applies to Rust and can’t realistically be achieved with other languages I know.