**CSE 310 – Applied Programming**

**Module Plan**

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| **Name:** | Zach Newby |
| **Date:** | October 16th 2023 |
| **Teacher:** | [Jeremiah Pineda](https://byui.instructure.com/courses/257684/users/375047) |
| **Module # (1-6):** | 3 |

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 |  |
| Language – C# |  |
| Language - TypeScript |  |
| Language – Rust | X |
| 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 intend to make a simple file reading and writing program using Rust. This may change based on how the project goes, and if all goes smoothly, implementing encryption and decryption functionality as well.

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. Notice – I use the pomodoro focus technique where I work for 25 minutes at a time and then take a 5-minute break. When I say “hours” I mean two pomodoro focus periods and the associated breaks.

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|  | **First Week of Sprint** | **Second Week of Sprint** |
| **Monday** | Planning – 10-25 mins, Learn Rust Basics - 2 hours (Install rust, set up development environment watch tutorials) | Begin developing final prototype – 2 Hours |
| **Tuesday** | Learn Rust Basics (watch tutorials) - 2 hours – Missing assignment from last week | Soft skills assignment, work on final prototype for 2 hours |
| **Wednesday** | Begin developing program and study Rust - >2 hours | Final Prototype – 2 hours |
| **Thursday** | Program development - > 2 hours | Develop video demo and finish prototype – 2 hours |
| **Friday** | Program development - > 2 hours – Job preparation Assignment | Prepare submission – 2 hours |
| **Saturday** | Free Period (if extra work time is needed) |  |

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 have been struggling with time management and interruptions preventing me from getting the desired work done, so I will work on that by eliminating distractions, recording progress for each day in a text file, and creating a stable work environment.

Meeting deadlines – something I have struggled with in the last two modules from programs being too complex or tedious, I will try to keep this project much simpler.