**CSE 310 – Applied Programming**

**Module Plan**

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| **Name:** | Shane Wocicki |
| **Date:** | 9/20/2023 |
| **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.

|  |  |
| --- | --- |
| **Modules** | **Selected Module** |
| Cloud Databases |  |
| Data Analysis |  |
| Game Framework |  |
| GIS Mapping |  |
| Mobile App |  |
| Networking |  |
| SQL Relational Databases |  |
| Web Apps |  |
| Language – C++ | X |
| Language – Java |  |
| Language – Kotlin |  |
| Language – R |  |
| 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 purpose of this C++ project is to create an interactive guessing game that provides a personalized experience for the player, this case it will be me, Shane. The game generates a random number between 1 and 100 and challenges the player (me) to guess the correct number. It uses the player’s name and for the sake of this being a BYUI class includes references to BYUI to make the game more relevant to BYUI. The goal is for the player to guess the secret number within as few attempts as possible, with the program providing feedback on each guess and celebrating the players success upon a correct guess. I hope to add another level to the game once you have completed the first, and hopefully more after that.

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** |  | 3 |
| **Tuesday** |  | 3 |
| **Wednesday** |  | 3 |
| **Thursday** |  | 3 |
| **Friday** | 3 | 3 |
| **Saturday** | 3 | 3 |

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 am not the best at C++ but feel confident enough in my coding background that once I get into the syntax it will all come together nicely. Another one is staying focused, I am taking quite a few credits while also working 50 hours a week so time usage will be a hot issue I feel, but I look forward to the challenge.