**XCSE 310 – Applied Programming**

**Module Plan**

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| --- | --- |
| **Name:** |  |
| **Date:** |  |
| **Teacher:** |  |
| **Module # (1-6):** |  |

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 |  |
| 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.

Rust based Bit mine Coin with built in API connected to Blockchain. Taking most recent hash to guess the nonce of the next block. With an implementation of Bash Scripting to report results.

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** | N/A | Work on while functions/ 1 hr individual |
| **Tuesday** | N/A | Follow up/ 1 hr individual |
| **Wednesday** | Creating a plan/1hr in class | Create Gui/ 1hr in class |
| **Thursday** | Research bit coin mine/ 2hr individual | Follow up/ 2hr on zoom |
| **Friday** | Build outline of Program/ 4hr in class | Present |
| **Saturday** | Work on API / 4hr individual |  |

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.

Short on time. We win and the money tears us apart. Connecting to the API correctly.