**CSE 310 – Applied Programming**

**Module Plan**

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| **Name:** | Samuel Cummings |
| **Date:** | October 4, 2021 |
| **Teacher:** | Brother Macbeth |
| **Module # (1-5):** | 2 |

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 Platform |  |
| GIS Mapping |  |
| Mobile App |  |
| Networking |  |
| SQL Relational Databases |  |
| Web Apps |  |
| Language – C++ | X |
| Language – Java |  |
| Language – Kotlin |  |
| Language – Python |  |
| 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.

Create a message board using the terminal that will allow for users to write posts which will be saved onto a file. The user will also be able to view the message board which will be displayed by reading the posts\_file and formatting it to display all of the posts made.

1. Identify at least two risks that you feel will make it difficult to succeed on this module. Identify an action plan to overcome each of these risks.
2. Learning C++ - the language seems difficult and time consuming to learn
   1. There are many resources that I can turn to for help with learning c++. W3schools greatly help me with the basics and learning: <https://www.w3schools.com/cpp/>
3. File format – formatting the file to display data correctly
   1. This website will help show how to work with json formatting in files with c++: <https://dev.to/zigabrencic/json-in-c-3mie>
4. Create a schedule for yourself to complete this module in the two weeks required. The schedule should include milestones with dates. Milestones are activities that you need to complete related to research, implementation, testing, and documentation.

Week 1:

Mon – Wednesday

* Work through c++ tutorials to get familiarized with the language
* Start c++ project in vscode

Thurs – Sunday

* Update software to allow for user to write a message to “post”
* Write user input to file with their information
  + If time create user system that allows users to create an account.

Week 2:

Mon – Wednesday

* Display the data written to the file on the terminal in a message board format.
* Documentation (README file and comments in code)

Thurs – Sunday

* Test project
* If time transfer file to database.