**CSE 310 – Applied Programming**

**Module Plan**

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| **Date:** | 11/14/2023 |
| **Teacher:** | Jeremiah Pineda |
| **Module # (1-6):** | 5 |

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 | X |
| Language – C++ |  |
| 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.

At a high level, I plan to build a web application that provides file upload and storage services, user accounts, and file management. As I continue to learn about the relevant technology and languages, my software design may change accordingly.

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** | Research and Prototype, Office, 2 hours | Implement the Database and Storage, Office, 2 Hours |
| **Tuesday** | Research and Prototype, Office, 2 hours | Implement the Database and Storage, Office, 2 Hours |
| **Wednesday** | Research and Prototype, Office, 2 hours | User Authentication, Office, 3 Hours |
| **Thursday** | Create the user interface, Office, 2 Hours | File Management and Upload, Office, 4 Hours |
| **Friday** | Create the user interface, Office, 3 Hours | Testing and Deployment, Office, 2 Hours |
| **Saturday** | Create the user interface, Office, 3 Hours | Testing and Deployment, Office, 2 Hours |

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.

1. Time Management: One of the significant challenges I anticipate facing with this module is effective time management. Balancing this module with my job, two side businesses, and family will be tough. To overcome this risk, I plan to create a daily and weekly schedule outlining my actions and allocating blocks of time for each task. This plan will help me keep track of my progress and ensure that I don't miss deadlines. Additionally, I will prioritize essential tasks and eliminate time-wasting activities by identifying areas that do not add value to my project.

2. Lack of Technical Knowledge: Another risk I see is encountering technical difficulties related to the required technology or languages. Given that I am new to software development, I can foresee some challenges regarding this aspect. To overcome this risk, I plan to learn more by engaging with discussion forums, joining study groups, and reaching out to instructors/peers for advice and guidance. It is essential that I work closely with mentors or instructors when I need technical support to learn all relevant software design concepts. This strategy will ensure that I overcome the identified risks and equip me with the necessary knowledge to succeed in this module.