**CSE 310 – Applied Programming**

**Module Plan**

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| **Name:** | Parker Johnson |
| **Date:** | 10/17/2023 |
| **Teacher:** | Brother Pineda |
| **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 | X |
| 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 |  |
| 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.

* Education Data Analysis: Analyze educational data to assess student performance, graduation rates, and educational disparities.

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 data sources, 2hrs, office | Program development and testing, 2 hours, office |
| **Tuesday** | Dataset Exploration and summary statistics, 2 hrs, office | Program development and testing, 2 hours, office |
| **Wednesday** | Data cleaning and preparation, 2 hrs, office | Analysis based on research questions, 2hrs, office |
| **Thursday** | Data cleaning and preparation, 2 hrs, office | Analysis based on research questions, 2hrs, office |
| **Friday** | Visualizations of data, 2 hrs office | Interpretation of results and final report write-up, 2 hrs, office |
| **Saturday** | Visualizations of data, 2 hrs office | Interpretation of results and final report write-up, 2 hrs, office |

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.

Risk 1: Time management may become an issue while working on this module. Balancing this module with other responsibilities can be difficult, especially if unexpected events or obligations arise.

Action Plan: To overcome this risk, I will make sure to set reasonable and achievable goals for each assignment and complete them within the given deadline. I will organize my work schedule and plan breaks in between tasks to avoid burnout. I can also use tools like calendars, planners, and project management software to track my tasks and deadlines. Additionally, I will communicate my challenges openly and honestly with my instructor and seek help when needed.

Risk 2: Lack of technical proficiency and programming skills may pose a challenge while undertaking some of the complex tasks.

Action Plan: To overcome this risk, I will start early and practice consistently with the programming languages and tools used in this module. I will make sure to actively participate in online discussion forums, attend tutorials and utilize other resources like online code repositories, user manuals or help desks. I will break down complex tasks into smaller manageable sub-tasks, and seek feedback from my instructor and peers at regular intervals. Additionally, I will set realistic expectations for my performance and progress, and focus on improving and learning from my mistakes rather than striving for perfection. Lastly, I will allocate enough time in each task and start working on it early to provide ample room for error correction and troubleshooting.