**CSE 310 – Applied Programming**

**Module Plan**

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| **Name:** | Joshua Nilsson |
| **Date:** | 1/17/2024 |
| **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.

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| **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 | x |
| 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.

I plan to create a basic calculator that has the 4 basic arithmetic functions of addition, subtraction, multiplication and division. I would like to make it with a GUI to make it user friendly, however I am not sure if in the timeline available it would be possible.

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.

All timelines will be from 8-9pm to accommodate my schedule and will take place in my office.

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|  | **First Week of Sprint** | **Second Week of Sprint** |
| **Monday** | Research Kotlin as a whole | Work on project |
| **Tuesday** | Research different functions and how they work in Kotlin | Work on project |
| **Wednesday** | Focus research and examples on variables and expressions | Work on project |
| **Thursday** | Focus research and examples on conditionals and loops | Work on project |
| **Friday** | Focus research and examples on functions and classes | Work on project |
| **Saturday** | Outline needed functions and items for a basic calculator | Work on project |

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 have never used Kotlin but taking the week to learn and practice items will help me.

I get distracted easily and lose track of time, so I will be having my wife be aware of the timelines so she can help me stick to them.