**CSE 310 – Applied Programming**

**Module Plan**

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| **Name:** | Alex Nielsen |
| **Date:** | 10/18/23 |
| **Teacher:** | Ken Walters |
| **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 |  |
| Game Framework |  |
| GIS Mapping |  |
| Mobile App |  |
| Networking |  |
| SQL Relational Databases |  |
| Web Apps |  |
| Language – C++ |  |
| Language – Java |  |
| Language – Kotlin |  |
| Language – R | X |
| 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 would like to create a Linear Regression model that can associate two variables and model the relationship. I would also like to incorporate data from a csv file.

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** |  | Beginning experimentation and trying R 2 hrs |
| **Tuesday** |  |  |
| **Wednesday** | Planning and setting up environment 2 hrs | Writing the majority of the program 3 hrs |
| **Thursday** |  |  |
| **Friday** | Learning R syntax and basic language systems 3 hrs | Finishing touches and debugging, incorporating csv 2 hrs |
| **Saturday** |  | Final flex time to make up or fix unintended problems 2 hrs |

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.

The main issue of learning this module is that until now I have only worked with functional programming languages such as C based, python, JavaScript, etc. R seems to be different with its focus on creating graphical displays of data. To account for this I will spend extra time in the learning and research phase of this module to become comfortable with this very new language. I also think I may have problems learning to incorporate the csv files like I want, so I will need to have a sandbox file to experiment and learn exactly how the language and data importing works.