**CSE 310 – Applied Programming**

**Module Plan**

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| **Name:** | Madison Lutz |
| **Date:** | 6/21/2023 |
| **Teacher:** | Jerimiah 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 | 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.

I’m going to be creating a data analysis spread answering two questions about a dataset that I choose. I will be using python and specifically the pandas library to accomplish this.

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** |  | Continue working on program to analyze the data set |
| **Tuesday** |  | If first two questions are finished begin to work on creating graphs |
| **Wednesday** | Decide which module to choose and finish filling out the module plan | Continue working on graphs |
| **Thursday** | Study data analysis concepts and practices | Debugging |
| **Friday** | Set up my python project where I will be doing the analysis | Finalize project |
| **Saturday** | Pick and study my chosen data set and make a list of questions I want to analyze | Make video and finish report |

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 come to realize that I plan a little too much and get frustrated when I cannot finish everything I planned, so for this module I’m going to plan a little less and add more at the end if I have more time. Another thing I’m worried about is coming up with the right questions to ask based on my data sets because I’ve never done anything with data analysis before. But learning about it should help me be able to tackle this with the right mindset.