**CSE 310 – Applied Programming**

**Module Plan**

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| **Name:** | Krisstopher Nielsen |
| **Date:** | 5/9/2023 |
| **Teacher:** | Bro.Birch |
| **Module # (1-5):** | 2 |

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 want to figure out how to use excel sheets in python to organize data. I will find a free data sheet and import it. I will then use a tool like pandas in python to find trends in the data and answer questions that might me useful to know about the data.

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 should also include time to work on your team project. You are expected to spend 16 hours every Sprint working on your individual module, team project, and other activities. Time spent on this individual module should be at least 10 hours.

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|  | **First Week of Sprint** | **Second Week of Sprint** |
| **Monday** | Find the data I want to use from free libraires online. (1 hour) | Answer questions about my data using things I learned from my program (1 hour) |
| **Tuesday** | Research what people do to organize data… Learn filter, sort, aggregate skills. (2 hours) | See what else I can do with data with my program/ experiment with my new albitites. (1 hour) |
| **Wednesday** | Decide what I am trying to answer from organizing the data and make plans to highlight that area. (30 min) | Spend time reviewing what I have done to see if there was a way to do it better. (1 hour) |
| **Thursday** | Start my program (1 hour) | Try to add improvements. ( 1+ hours) |
| **Friday** | Learn more as needed (1+ hours) | Finish Program 30+ min |
| **Saturday** | Note things that worked to use next time( 30 min) | Make video and read me. Turn in. 30+ min |

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.

A risk for me is to decide what questions are too hard to answer. Maybe I can try to answer some simple questions about my data first and then use extra time to learn more. Another risk is learning how to use other libraires or tools an analyst would use besides just code. I should spend more time learning those tools than I would on just python and only learn more python skills as needed since I already have more background with that.