**CSE 310 – Applied Programming**

**Module Plan**

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| **Name:** | Jaron Whipple |
| **Date:** | 10/6/21 |
| **Teacher:** | Brother Jeremiah Pineda |
| **Module # (1-5):** | Module 2, Cloud Databases. |

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 | X |
| Data Analysis |  |
| Game Platform |  |
| GIS Mapping |  |
| Mobile App |  |
| Networking |  |
| SQL Relational Databases |  |
| Web Apps |  |
| Language – C++ |  |
| Language – Java |  |
| Language – Kotlin |  |
| Language – Python |  |
| 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.

I am very close to opening a business that will be selling different products. I currently do not have a set inventory or table of all my products that I ill be offering. To complete this project’s requirements, I would like to create a table that will receive product information. The software will be capable of inserting new rows, modifying existing information, deleting rows, as well as retrieving information. I will also make a second table that is connected to the first that will be able to track the flow of the first table (sales, current inventory, projected stock). I will complete this project in Python and connect it using Firestore to a Google Firestone database.

1. Identify at least two risks that you feel will make it difficult to succeed on this module. Identify an action plan to overcome each of these risks.

The biggest risk I run with this project is how unfamiliar I am with cloud databases. I think I might be at risk of not being able to connect a database to my code. To overcome this concern, I will be sure to watch step by step tutorials of connecting the database and follow each step closely.

The second risk I run is that I do not have an actual way to sell anything yet. This will make it difficult to test my second table to see if it performs properly. To overcome this I may have to find a way to manually create a “sell” so that the second table will count it as such.

1. Create a schedule for yourself to complete this module in the two weeks required. The schedule should include milestones with dates. Milestones are activities that you need to complete related to research, implementation, testing, and documentation.

10/8/21 – Finish researching and make the final decision of which database will be used for my project.

10/11/21 – Connect the my Python file to my database and begin writing code.

10/12/21 – Finish the first table and be able to successfully use it as described previously

10/13/21 – Finish second table and all of its functionality. Run test cases.

10/15/21 – Complete README.md file, demonstration video and submit final draft.

10/16/21 – This will serve as an extra flex day that I can use if I am behind or still have parts of the assignment to complete.