CSE 310 – Software   
Design and Development

Module Plan: (Data Analysis)

*Fill out each section in the table below.*

|  |  |
| --- | --- |
| **Name** | Joseph Devincenzi |
| **Teacher** | Jeremiah Pineda |
| **Section** |  |
| **Date** | 4/27/2022 |
| **Module # (1-5)** | #1 |

*It is a violation of BYU-Idaho Honor Code to post or share this document with others or to post it online. Storage into a personal and private repository (private GitHub repository, unshared Google Drive folder) is acceptable.*

# PLAN SECTION

## Step 1 – Module Choice

Write the name of which module you chose to implement over the next two weeks. Remember, you must not pick a language or material that you have already mastered either in school or on your own.

Module Choice: Data Analysis

## Step 2 – Plan Description

At a high level, describe the software you plan to create that will fulfill the requirements of this module.

The program I want to answer the following questions

* What kind of work temporary work is being approved for the non-immigrants for the H-1B, H1B1, and E-3 visa petitions?
* What is the rate of approval for these petitions based on job type?

## Step 3 – Risk Assessment and Planning

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.

Risk 1: not being able to learn pandas enough to answer the questions above

Plan to overcome Risk 1: everyday studying the pandas documentation

Risk 2: not being able to understand enough python to be able to complete the module

Plan to overcome Risk 2: I have been reviewing a python for data analysis course that will help me learn more skills in this area.

## Step 4 – Schedule Creation

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.

|  |  |
| --- | --- |
| Day | Milestone |
| 4/27 | Finalize Plan |
| 4/28 | Review data from Kaggle, review pandas doc |
| 4/29 | Start coding, complete basic framework, design & readme |
| 4/30 | Continue coding, complete question 1 parts H1b & H1b1 |
| 5/2 | Continue coding, finish question 1 part e-3 |
| 5/3 | Complete question 2 |
| 5/4 | Review and adjust work on data structure |
| 5/5 | Review and adjust, share with colleagues for feedback |
| 5/6 | Final look over, submit |