Part A - Project Management, and Part B - Statistical Data Analysis and Presentation

The assignment work for this course is a group-based (max 3 people) data analysis project that is split into 2 parts – design and implementation. There are several different datasets in this repository – you will need to choose 1 that your team will work on for both Part A and B. The overall goal for this assignment is to develop a simple data analysis and visualization tool for a dataset. You will need to design and implement this tool, and it must provide a graphical user interface that will handle the analysis and visualization of the data. Each dataset has a number of analysis and visualization tasks that your interface must enable a user to perform. In addition to the listed tasks, you must come up with 1 additional analysis/visualization/insight that your software provides (you will need to come up with an appropriate task based on the dataset you pick). All the assignment work must be hosted on a GitHub repo with access restricted to your group members. This repository should have a track record of regular commits showing the incremental (and group-based) work done on the project. ALL project resources (documents, code, images, and others) should be in the GitHub repo.

Additionally, your private git repo should be shared with the following accounts:

- 2810ICT-7810ICT-Assignment

Part A - Project Management (25%, Due Sunday 3rd September)

Submission Requirements

This assignment must be submitted online via L@G under the assessment page. Only 1 submission per group is needed. Your submission should include:

- Project Plan.docx - A project plan document. You should use the provided template.
- Software Design Document.docx - A software design document. You should use the provided template.
- Gantt chart.xlsx - A separate Gantt chart (high-resolution version). You should embed this in your project plan (as an image or other), but also provide the original file.
- git_log.txt - A copy of the Git Log
- Any other documents/supporting files you have created that you think are necessary to include at this stage

In Part A, you will need to prepare a project plan that includes a Project Overview, Work-Breakdown Structure, Activity Definition and estimation and a Gantt chart for displaying scheduling & time estimation. This project plan should include sensible estimates for the various tasks required for both Part A and B (including estimates on preparing the project planning documentation). As you complete various components, you should put the actual completion time/dates on your Gantt chart to track how close you were to your estimates. For the subsequent stage of the assignment, you should revise your project plan with any additional details and continue to track your work.

You will then need to prepare a Software Design Document for one of the given data sets and related questions. You should start with a System Vision Statement (this can be included in your design document). You should then produce a formal list of requirements that need to be satisfied, some use cases for your software, a listing of system components and the related software design, and an early user interface design/wireframe (to be implemented in part B). There are templates provided for these documents. Please read the template documents for more hints and guidance.

To start your project, you should clone the following repo which contains the templates.

https://github.com/2810ICT-7810ICT-Assignment/2810ICT-7810ICT-2023-Assignment

It is important to note that submission of this assignment is a requirement for passing the course. Late submissions will be marked according to Griffith

University’s assessment policy. 5% of the overall mark will be deducted for each business day late. After 5 days, no submissions will be accepted.