Project Proposal

Project Description

DICT in partnership with Globe Telecom and Google introduced a free professional ICT training named Google Career Certificates. It is an online training program designed to help people learn job-ready skills in following high-growth, high-demand careers such as Data Analytics, IT Support, Project Management, and UX Design. Every week Coursera provides an excel file containing reports from the users who are enrolled on the said training. The excel file includes details about their name, email, enrolled course, date of completion and others. Furthermore, DICT has a csv file or master list of enrolled students which includes their name, email address and region.

Currently, these csv files are analyzed manually through Excel's filters. Although this setup works, it is a tedious work considering that these files contain thousands of rows. In addition, the user also needs to manually copy the regions data from another csv.

The general objective of this project is to develop a system where user can upload two csv files regarding the GCC program and perform queries like filters and sort to better analyze the data imported. The first csv file is the Coursera's users reports, while the second csv file is the master list containing the learner's full name, email, and region.

Specific Objectives:

- To validate csv contents.
- To import csv data to database.
- Filter and sort on imported data.
- Export filter exported data to csv.

Scope

The scope of this project is that it accepts two csv files containing details about the GCC program. The first csv file is the users report from Coursera, the second file is the master list that contains the learners' full name, email, and region. The system checks if the uploaded csv files are correct, looks for empty cells, and validates the row values. Once the data is imported, the system will notify the user if there are duplicate accounts. After that, user can apply filters and sorts to generate new set of data and export them to csv. The

displayed and exported data has an additional column, the time elapsed column. It shows the difference between enrollment time and last specialization time in months and days.
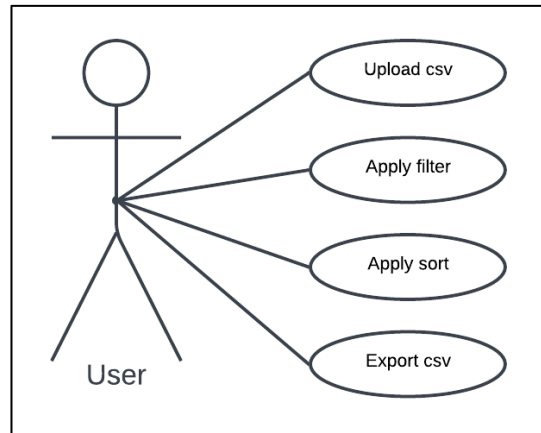

Figure 1: Use-Case Diagram

Figure 1 shows the Use-Case diagram of the proposed project. The user will submit two csv files, the first file is the users report from Coursera and the second file is the master list comprising name, email, and region of the GCC students. If there are no errors in the csv, the user will be able to see if there are duplicate accounts, view the merged data, and apply multiple filters and sort. For filters, user can filter by specialization, region, number of completed courses, completed specialization, removed account, and completions per month. For sort, user can sort the data in ascending or descending order by name, region, enrollment time, last specialization time, and completion time. Lastly, user can export the displayed data to csv.

Limitation

The limitation of this project is that the system can only accept csv files. In addition, it can only accept the users report from Coursera and the master list containing learner's full name, email, and region. There should always be the same number of columns and column names in each csv that is submitted. Lastly, the empty cells and invalid column data will not be fixed, it only alerts the user about the error. Duplicate accounts that were found are not removed; the system only notifies the user about their details.

Tools

In developing this project, Visual Studio Code is used as the IDE. XAMPP is also used for local hosting to run the program. For deployment XAMPP is also used to run the program in the user's device. A user manual is also provided to guide the users on how to install and setup the program.

Flowchart
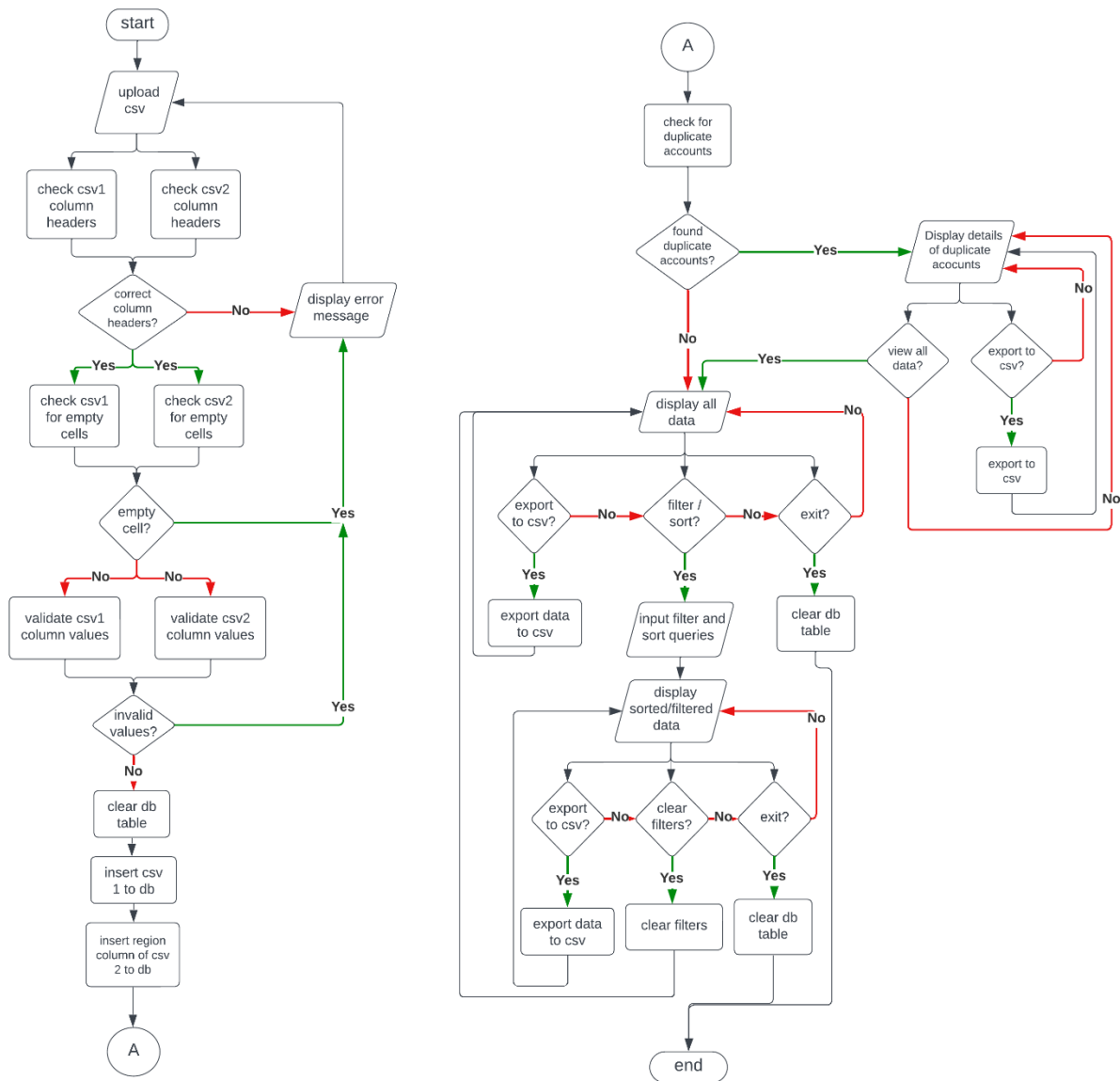
Gantt Chart

Project Start	Project End
17-Feb	3-Mar

Task	Assigned to	Start Date	End Date	Duration	17-Feb	18-Feb	19-Feb	20-Feb	21-Feb	22-Feb	23-Feb	24-Feb	25-Feb	26-Feb	27-Feb	28-Feb	1-Mar	2-Mar	3-Mar
1.0 Front-end																			
1.1 Design UI	Jolo	17-Feb	17-Feb	1	█														
1.2 Code UI	Randolf	17-Feb	23-Feb	5				█	█	█	█								
2.0 Back-end																			
2.1 Upload csv	Alex	17-Feb	17-Feb	1	█														
2.2 csv validations	Alex	17-Feb	21-Feb	3	█			█	█										
2.3 Import csv to db	Alex	22-Feb	22-Feb	1						█									
2.4 Join csv	Alex	22-Feb	22-Feb	1						█									
2.5 Filtering	Alex	23-Feb	27-Feb	3								█	█		█				
2.6 Sorting	Alex	28-Feb	1-Mar	2												█	█		
2.7 Export to csv	Alex	1-Mar	1-Mar	1													█		
3.0 Testing	Jolo	2-Mar	2-Mar	1														█	
4.0 User Manual	Jolo	2-Mar	3-Mar	2														█	█

█	Incomplete
▉	Complete