

CSE3063 Object Oriented Software Design / Python Project

First Iteration

Requirement Analysis Document

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Table of Contents

<u>Pages</u>	<u>Content</u>
2.....	Table of Content
3.....	About the Project
3-4.....	Requirements
5.....	Domain Model

1. About the Project

This project focuses on developing a software for processing and analyzing Zoom poll reports. The main idea behind this project is to calculate classroom outputs for attendance and quiz polls for each student. These outputs will include: number of attendance polls, attendance rate, attendance percentage, quiz success rate of and success percentage of quizzes. Also, there will be another output file which will hold charts and histograms for each quiz about answer distribution.

2. Requirements

2.1-Functional Requirements

Calculating the results as an output of attendance

- Priority(1-lowest/5-highest): 5
- Criticality: One of the main ideas behind this project.

Calculating the results as an output of quizzes.

- Priority: 5
- Criticality: One of the main ideas behind this project.

2.2-Non-functional Requirements

- There will be a single zoom poll report as a .csv file containing several .csv files as input.
- There will be a student list in the format provided by BYS system as an excel file.
- There will be a single answer key containing several answer keys of different polls. An answer key file is also a csv or an excel file.
- First line of the answer key file will include a unique name of the poll. Following lines include two fields; question text and correct choice text.
- Software will be able to detect and separate different poll results from a given file.
- Software will be able to distinguish attendance polls from quiz polls.
- Software will be able to detect poll names in report files by matching the question texts in the answer key files because zoom poll names are not included in the report files.

3. Domain Model

