

CSE3063 Object Oriented Software Design / Python Project Second Iteration

Requirement Analysis Document

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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

i. Calculating the results as an output of attendance

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

ii. Calculating the results as an output of quizzes.

1. Priority: 5
2. 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.

- ☐ All the zoom poll reports will be processed, statistics and analysis will be created for all the students.
- ☐ Other reports or other poll files from other classes will be filtered. Also, date and session -for the information in the poll report files- will be checked.
- ☐ There may be several polls in a given day. All poll answers are accumulated in the same file for that day but we will check that assumption. If the same poll is given to the students on different days, then we will consider these as different quizzes.
- ☐ In grading we will report each quiz.
- ☐ From the poll report meeting name will be extracted.
- ☐ With extracted meeting name recurring answer key will be found and the poll will be identified by the name
- ☐ We will distinguish quizzes from attendance polls by the number of questions. If a poll has only one question with only two options such as yes or no, we will decide that this attendance poll and it will not be graded, but will be used merely as counting attendance.
- ☐ If the poll does not exist in answer keys files then it is an attendance poll and it will not be graded, but it will be used for attendance.
- ☐ If there is no attendance poll but there is at least a quiz, then all the students who participated in at least one of these quizzes will be counted as attending the class that day.
- ☐ We will write the report as an open spreadsheet file (.ods) or excel, file name will be such as "Poll_5_W4_1_Soft_Dev_Activities_2020_11_16_05_30_49.ods"
- ☐ We will report the details of each student's answers for each student for each poll.
- ☐ For each poll, we will report the answers of each student along with the correct answers for each question.
- ☐ Fields will be question text, given answer, correct answer, correct(1 or 0). Also for the last column, if the given answer matches the correct answer then we will put 1 in here, otherwise we will put 0.
- ☐ Name of the Global Analytics file will be such as CSE3063_2020FALL_QuizGrading.ods. This will be a single open document spreadsheet or excel file including all the students in the BYS list in order to be given in BYS list.
- ☐ Columns include index (from 1 to number of students), "student number", "student full name".
- ☐ After this column, we will list each quiz as a column with quiz name and given date (as in [1] such as "Poll_5_W4_1_Soft_Dev_Activities_2020_11_16_05_30_49") ordered by the date ascending. The values will be the number of correctly answered questions by this student for this quiz. As the last column we will calculate a global accuracy for each student: "The total

number of correctly answered questions in all quizzes" / "Total number of questions in all quizzes" * 100

3. Domain Model

