MARMARA UNIVERSITY
FACULTY OF ENGINEERING
DEPARTMENT OF COMPUTER ENGINEERING

CSE3063
OBJECT ORIENTED SOFTWARE DESIGN
PROJECT 2 – ITERATION 1
REQUIREMENT ANALYSIS

Vision

The objective of the this project is to create a Python based object oriented implementation of Evaluation of Poll Reports that are done during the course meeting in Fall 2020-2021 semester.

The project has two main iterations. According to the demands and feedback of the customer, necessary changes and developments is made in the project.

Scope

During the online courses, ZOOM Polls are used to track the performance of the students. These polls include one or more questions that are determined by the instructor. The questions can be quizzes related to the course topics or they can be asked only to evaluate participation to course. The courses' instructor download a poll report after the meeting in csv file format.

For this reason, this python project is developed for processing and analyzing these Zoom polls. The example poll reports that are done during the course and student list that contain students taking the course are provided by instructor.

A detailed report was prepared in which the lecturer could see the attendance rate of the students and the success rates of each student in the quiz.

Glossary Of Terms

Student List: Includes the all students that take the course during the Fall 2020-2021 semester.

Student: Each of the students whose progress and absenteeism is wanted to be evaluated**.**

Result: Includes quiz results for each student.

Question: Contains question asked in the poll and answers for each question.

Poll: Done for checking the student's progress in the course given throughout the semester. It includes questions that are determined by course's instructor before the course.

Report: The text file in csv file format. The fields are seperated by comma. This text file can be for quiz or attendance.

Attendance: Uses for finding the total number of classes the student attended during the semester.

Functional Requirements

- A single ZOOM poll report may include more than one poll results that are done in a particular day/session.
- The zoom poll names are not included in the report files. Poll names only exist in answer key files.
- Some questions may exist in several polls.
- The attendance should be calculated into an spreadsheet file (.xlsx or .ods). Output should includes all the fields and students in the given order in "CSE3063_Fall2020_rptSinifListesi.XLS" and "number of attendance polls", "attendance rate" and "attendance percentage" for each student.
- The results of each poll should be calculated in spreadsheet files (.xlsx or .ods). One file should be named with the poll name. Output should include all the fields and students in the given order in "CSE3063_Fall2020_rptSinifListesi.XLS" and additional columns one for each question in this quiz. These columns should be named as Q1, Q2, … and values will be 1 if the student chose the correct answer for the question, 0 otherwise. As the last columns include "number of questions", "success rate" and "success percentage.
- One file should include general statistics and reporting.
- One global file should be maintained between different runs of the software. Output should include all the fields and students in the given order in "CSE3063_Fall2020_rptSinifListesi.XLS" and additional columns for each quiz poll. These columns should be the named with quiz polls.

- ## Non-Functional Requirements

- A single zoom poll report should be as a csv file format or a folder containing several .csv files as input.
- The .csv file includes some attributes such as user name, user email, submitted date and time.
- A single answer key or a folder containing several answer keys of different polls should be taken. An answer key file should be also a csv or an excel file. First line should includes a unique name of the poll. Following lines should includes two fields; question text and correct choice text.
- A student list in the format should be provided as an excel file.
- After each iteration ,some measurement should be done according to the metrics which are given by instructor.
- All works related to the projects should be submitted to github as a control and sharing mechanism.

Stakeholders

- Murat Can GANİZ (Customer)
- Lokman ALTIN (Customer)
- Abbas Göktuğ YILMAZ
- Ahmet Hamza DEMİR
- Belgin TAŞTAN
- Enes GARİP
- Mikail TORUN
- Muhammet Yasin TUFAN
- Veysi ÖZ

Deadline Of Project's Iteration

Iteration I – January 16th, 2021 Saturday 23:59

Iteration II – January 30th, 2021 Saturday 23:59

DOMAIN MODEL