

# **Python Project**

## **Requirements Analysis Document (RAD) / ITERATION 1**

### **Purpose of the system**

The purpose of the system is to develop a software for processing and analyzing Zoom poll reports. The system gets an excel file of polls, student list, and answer keys of the polls. According to answer keys, system calculates points of each student. Also, by looking at the attendance polls, system calculates the attendance of each student. The system calculates the percentages of answers given to each question and creates histograms for them.

### **Stakeholders**

- Murat Can Ganiz
- Lokman Altın

### **Scope of the system**

This system can be used in online lectures to calculate attendance of students. Also it can be use in online working companies. In companies managers can increase the performance and get the employees's thoughts.

## **Functional Requirements**

- System will take a single zoom poll report as a .csv file or a folder containing several .csv files as input.
- System will take a student list.
- Program will take a single answer key or a folder containing several answer keys of different polls
- Program must detect and separate different poll results from a given file.
- Program calculate and output the attendance into an spreadsheet file (.xlsx or .ods).
- Program outputs one global file that will be maintained between different runs of our software.

## **Non-Functional Requirements**

- Histograms are shown in both output files and png format

## **USE CASES**

- The program first reads the student list and creates an object for each of the student. These objects consist of student id , student name, student last name and emails.
- The program reads poll excel files. If input only contains attendance poll, program increases the attendance of students who are answered the poll by one.
- If there is both quiz poll and attendance poll, program increases the attendances of the students. Also, the program calculates the right answers of the students according to given answer key of each poll.
- The program calculates the points of students who answered the poll. If a student didn't answer the poll questions or didn't enter the lecture, her/his point is assigned to 0.
- According to answers of the questions, histograms are created.
- The attendances of students are rated to the total number of lectures.
- In each reading of a quiz poll file, the results are combined in one global file.
- The program continues to work like that.

## Glossary of Terms

**Poll** - Questions that are ask by the teacher in lectures in any time

**Attendance Poll** – Questions that are asked to take the attendance

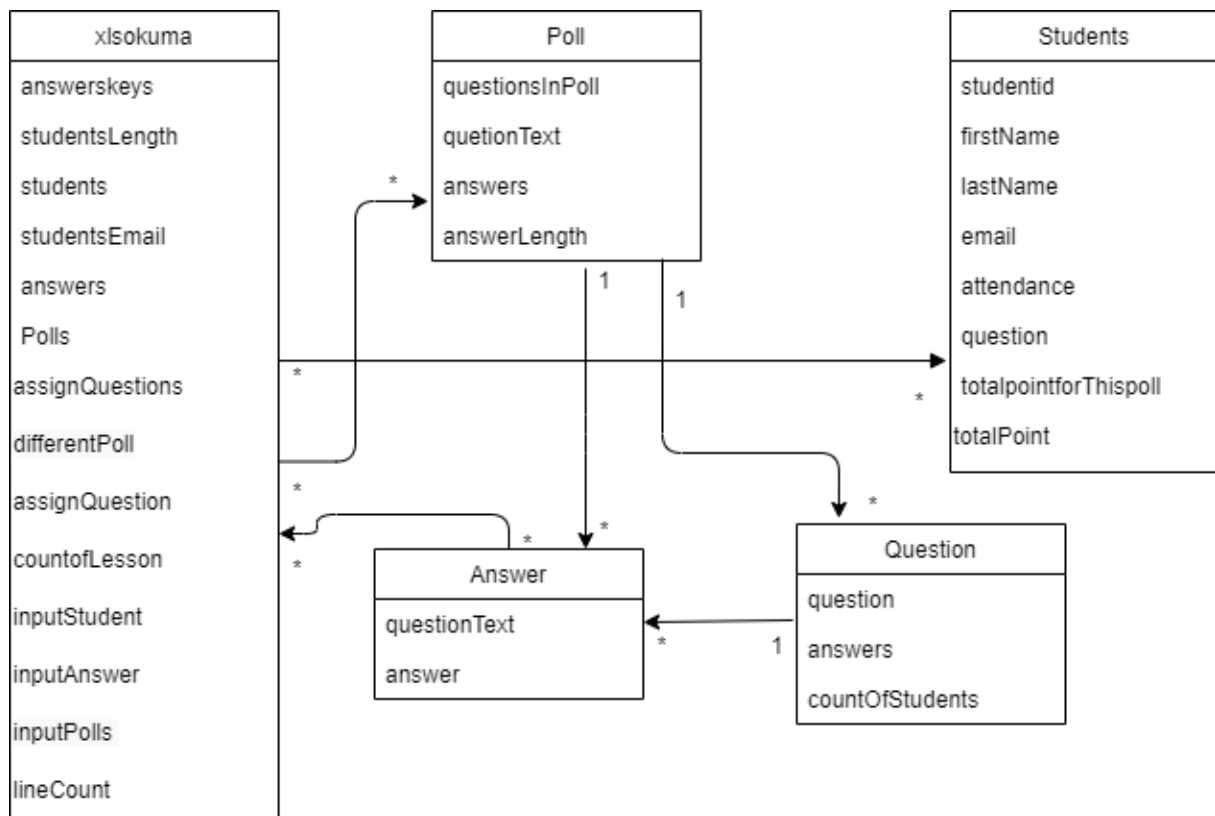
**Quiz Poll** – Questions that are asked about class subjects

**Student** – People who are answering the polls

**Histogram** – The diagram that shows the percentages of answer given in each poll questions

**Global File** - The file containing all of the points of the students

## Domain Model :



**CREATED BY GROUP:**

- 150117034 Berra Mercan
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- 150117042 Ezgi Doğruer
- 150117061 İsra Nur Alperen
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