

# **Python Project**

## **Software Requirement Analysis V1.0**

### **Lead Software Developers**

Mahmut Hilmi ARIKMERT  
Muhammed Enes AKTÜRK  
Yunus Emre ERTUNÇ  
Rabiul ISLAM  
Asaf Talha GÜLTEKİN  
Hamza TÜRKMEN  
Kerim BOYACI

### **Customers**

Murat Can GANİZ  
Lokman ALTIN

# Introduction

The purpose of this project is creating a software for processing and analyzing Zoom poll reports. Industry standard Object Oriented Designing and Programming will be implemented for this project. The chosen language is Python and agile software development methodology will be followed throughout the project.

## Overview

The software should have the functionality to process data file reports from zoom. .csv files will be taken as input and output into an spreadsheet file (.xlsx or .ods). It inherits functions that can distinguish needed data and output it in different contexts like displaying graphs, calculating attendance percentage, number of attendance poll or ordering the data as needed.

## Functional Requirements

- **Usability Requirements**
  - Analyzing the Zoom Poll reports
  - Detecting and parsing different poll reports
  - Creating stats like number of attendance poll, attendance percentage, attendance rate etc according to the reports
  - Command line user (1st iteration)
  
- **Implementation Requirements**
  - The app will be written in Python with OOP concept.
  - The app will take .csv or .txt file as input

- There will be no database integration for this project

- **Physical Requirements**

- Instructor can provide a poll or attendance
- The poll result will be shared in single or multiple files
- There will be a file to include general statistics and reporting such as question and choice wise statistics, histograms, pie charts etc
- One global file that will be maintained between different runs of your 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
- The app doesn't need to create any user
- The app should work on zoom application
- The app should be light and easy to operate through console

## **Non-Functional Requirements**

- **Performance Requirements**

- The app size should be medium neither too large nor too small
- The app should response quickly
- If any problem or exception detected, it should be handled in a short time and recover the system.
- Resource usage should not be too much.

- **Supportability Requirements**

- The app should be extensible and changeable according to client's expectations.
- The app should be adaptive for different kind of situations.
- The app should have compatibility for different OS.

- **Reliability Requirements**

- The software should perform as expected from command line
- The software should produce result as accurate as possible
- The software shouldn't lag or throw error halfway of the operation.

## DOMAIN MODEL

