Requirement Analysis

1.Introduction

1.1 Vision

Zoom poll is a system used to measure students' success and attendance in the lesson. In this program, questions are asked to the students by the instructor during the lesson. Students are expected to answer questions. Answers given by students are recorded in a report.

1.2 Scope

The aim of this project is to determine the success percentage and the attendance of the class according to the answers given by the students at the poll. There may be more than one poll data in our Poll report file. Our program makes the student's success calculations by separating these poll data from each other. A separate report is created for each student according to the answers given.

2. Functional Requirements

System must read the student list file and store the student list.

System must read the answer keys file and store the answer keys.

System must read the zoom poll reports and store the poll reports.

The system must match the students between the student information system and poll reports correctly.

The system should evaluate all polls in the poll report file separately.

The system must determine the success rate of the student by comparing the answers on the answer key file with the answers given in the poll reports by the student.

The system reports attendance and students' success rate information.

The system must calculate accuracy for each student.

The system must calculate number of questions, number of correctly answered questions, number of wrongly answered questions, number of empty questions, rate of correctly answered questions for each student.

3. Nonfunctional Requirements

3.1 Usability:

- Attendance and success rate reports should be printed with an organized manner to be easily understood by the instructor.

The system should process multiple poll reports.

3.2 Flexibility:

The system can detect different types of name formats.

The system should support different poll types

3.3 Performance:

- The system must give an output at a reasonable time.

3.4 Reliability:

- Components of the project code will be tested alongside the implementation phase to ensure that they are functional.

3.5 Stability:

- System should be stable in a sense that it should work with different poll reports.

- 3.6 Supportability:

- The application must not be platform dependent, i.e., it should be able to run on any platform.

4. Glossary

Zoom: Zoom is a cloud-based video communications app that allows you to set up virtual video and audio conferencing, webinars, live chats, screen-sharing, and other collaborative capabilities.

Poll: The method used to keep students 'answers to questions in the zoom application and to determine the attendance of students.

Student Information System: The system where students' data is kept by the school

Answerkey: The file containing the answer keys and names of the poles made during the semester.

5.Stakeholders:

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6.Use Cases

Use Case: Simulation

Actors: User, Poll Report System

Precondition: User must provide input files (answerkey, zoom poll report,student list)

1) User starts the system.

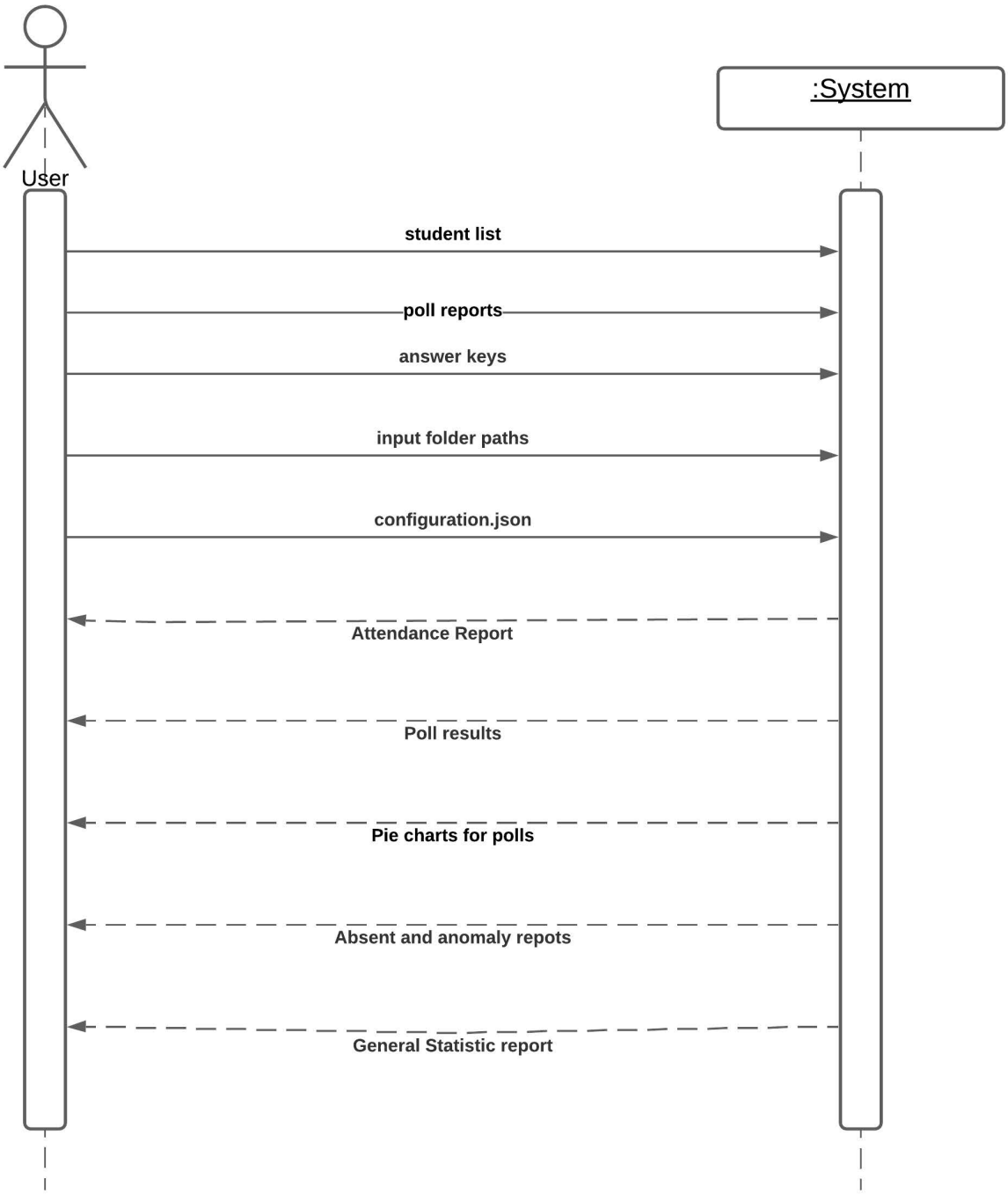
2) System selects the poll report which determined by user.

3) System create student list from student information system and matches the students names in the poll report.

4) The system compares the student's answers with the answers on the answer keys.

5) The data generated by the student's answers are presented to the user in reports.

7. System Sequence Diagram



8. Domain Model