Quiz Evaluation Software (QES)

Software Requirement Specification (SRS) Document

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Sprint 1 Implementation

INDEX

1. Introduction:

The introduction of the software requirement specification provides an overview of the entire software. The entire SRS with overview description purpose, scope, tools used and basic description. The aim of this document is to gather, analyze and give an in-depth insight into the complete Quiz Evaluation Software (QES) by defining the problem statement in detail. The detailed requirements of the Quiz Evaluation Software (QES) is provided in this document.

1.1 Purpose: -The purpose of this document is to show the requirements for the Quiz Evaluation Software (QES), which helps the college or university to keep track of the students marks. And store all the records in one document. It is easy to use and implement.

1.2 Intended Audience: -This document is intended to be read by Teachers.

1.3 Intended Use: -

- Development Team
- Maintenance Team
- Teachers/Trainers/Institute

Since this a General-Purpose Software any one can access it.

1.4 Scope: -This project aims to create the development of an Quiz Evaluation Software (QES) application in which trainers will be able to continously keep the record of student marks. This software helps trainers to evaluate marks of student and store in a document and can be accessed anytime, anywhere.

2. Overall Description: -

It is a Quiz Evaluation Software (QES) portal which consists of only one module which is Evaluation. This software will take Question paper sheet and Answer sheet of a student. And then this software will evaluate the marks and update in the output (CSV) file.

2.1 Assumptions and Dependency: -

- System should have Ubuntu Linux installed.
- · System should have either 4GB or more RAM.
- The service is used preferably on a desktop or laptop.

3.System Features and Requirements: -

3.1 Functionality: -

3.1.1 Evaluation Module: The main logic behind QES is written in this module

3.1.1.1 QES_01-> evaluate() -> Read the columns of Answer sheet and Question paper sheet and put the Question ID and Answer option in the respective structure array.

Then, it compares answer chosen by the participant and correct answer from question paper sheet. And according it evaluates the marks.

If the chosen answer matches with the correct answer then the correct answer counter increases by 1. And if the chosen answer is beyond valid number of options then the invalid answer counter will be increased by one. And then the output_csv() function will be called by passing all the necessary parameters.

3.1.2 Output Module: This module help to create a output CSV file.

3.1.1.1 QES_01-> output_csv() -> After this function is called it will open the output file if exists in the given path. It will update the evaluated marks of that participant at the end of file.

If the output file is not present in the given path then it will create one. And then It will update the evaluated marks of that participant from the starting of file.

3.2 System Requirements: -

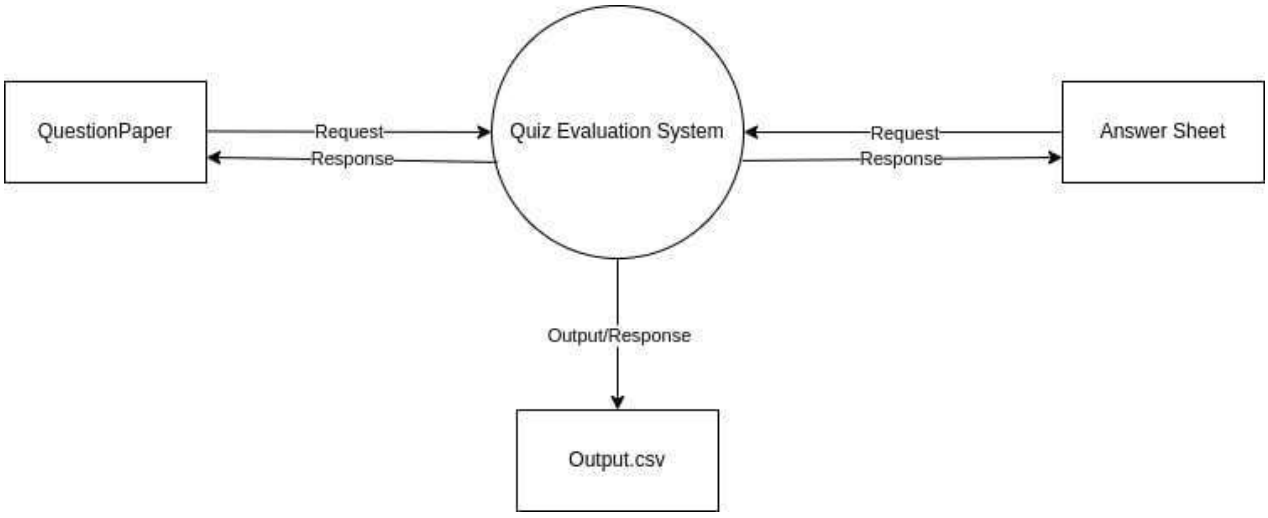
3.2.1. Tools to be used:

- Valgrind
- Splint

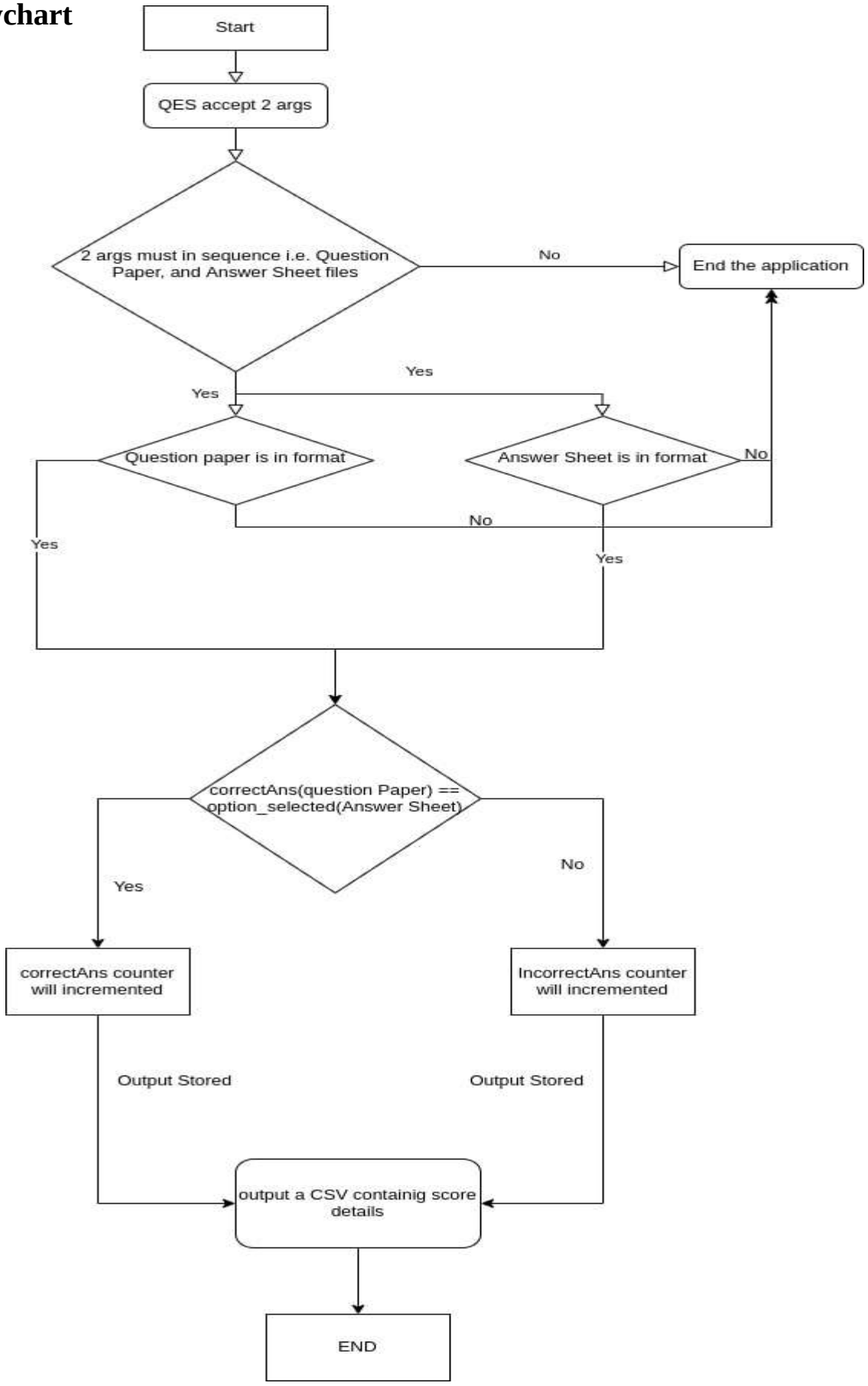
3.3 System Features: -

- Supportability: The system is easy to use.
- Design Constraints: The system is built using only C language.
- Reliability & Availability**:** The system is available 24/7 that is whenever the user would like to use the system, they can use it up to its functionalities.
- Performance: The system will work on the user's terminal**.**

4. DataFlow Diagram:



5. Flowchart


Start
QES accept 2 args
2 args must in sequence i.e. Question Paper, and Answer Sheet files
No
End the application
Yes
Yes
Question paper is in format
Answer Sheet is in format
No
No
Yes
Yes
correctAns(question Paper) == option_selected(Answer Sheet)
Yes
No
correctAns counter will incremented
IncorrectAns counter will incremented
Output Stored
Output Stored
output a CSV containig score details
END