

SE302 Software Construction & Development

Automated Quiz System

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Introduction

The system under consideration of development is a Multiple Choice Questions (MCQ's) based Quiz management system.

This system has been selected to be developed in order to overcome the problems that exists in manual system current under use by many of institutes in our city/area.

Problems in existing system

- Time consuming
- Manual Checking
- Manual Grading
- Improper management
- Dissatisfaction of Candidates
- Paper cost and waste
- Manual updating of records
- Maintaining different versions of Questionnaire
- Longer time to deliver results
- Personnel Biasness of individuals

Solution's to problems in existing system

- Better management
- Overcome time consuming issues
- Elimination of manual checking of quiz/test
- Delivering result fast
- Eliminating personnel biasness of any sort
- Better storing of data by using database
- Release the marks of candidate as soon as possible
- Ensure the satisfaction of candidate as well as instructor

Scope of the System

- This is system for educational institutes where exam/quiz systems are MCQS based.
- This system will assist and will eventually replace old system
- This system will manage all operations regarding generating reports regarding result
- The system can be used for general quiz i.e. non graded quiz
- The system can be used for terminals as well
- The system can store data of all courses taken by students

Future Scope

- In the future we will make mobile application and web application for this system with protected exam.
- Along with MCQS, the system will handle subjective type question.
- System will able to check for plagiarism.

Functional Requirements

There are three types of users of this system

- Administrator/ Institute
- Teacher
- Student

Administrator / Institute

- View all records
- Supervise activities
- Update data in Log

Teacher

- Sign up / Login
- Create quiz
- Set guideline to attempt quiz
- Set marks of each question
- Set passing marks
- Set time limit
- Search result

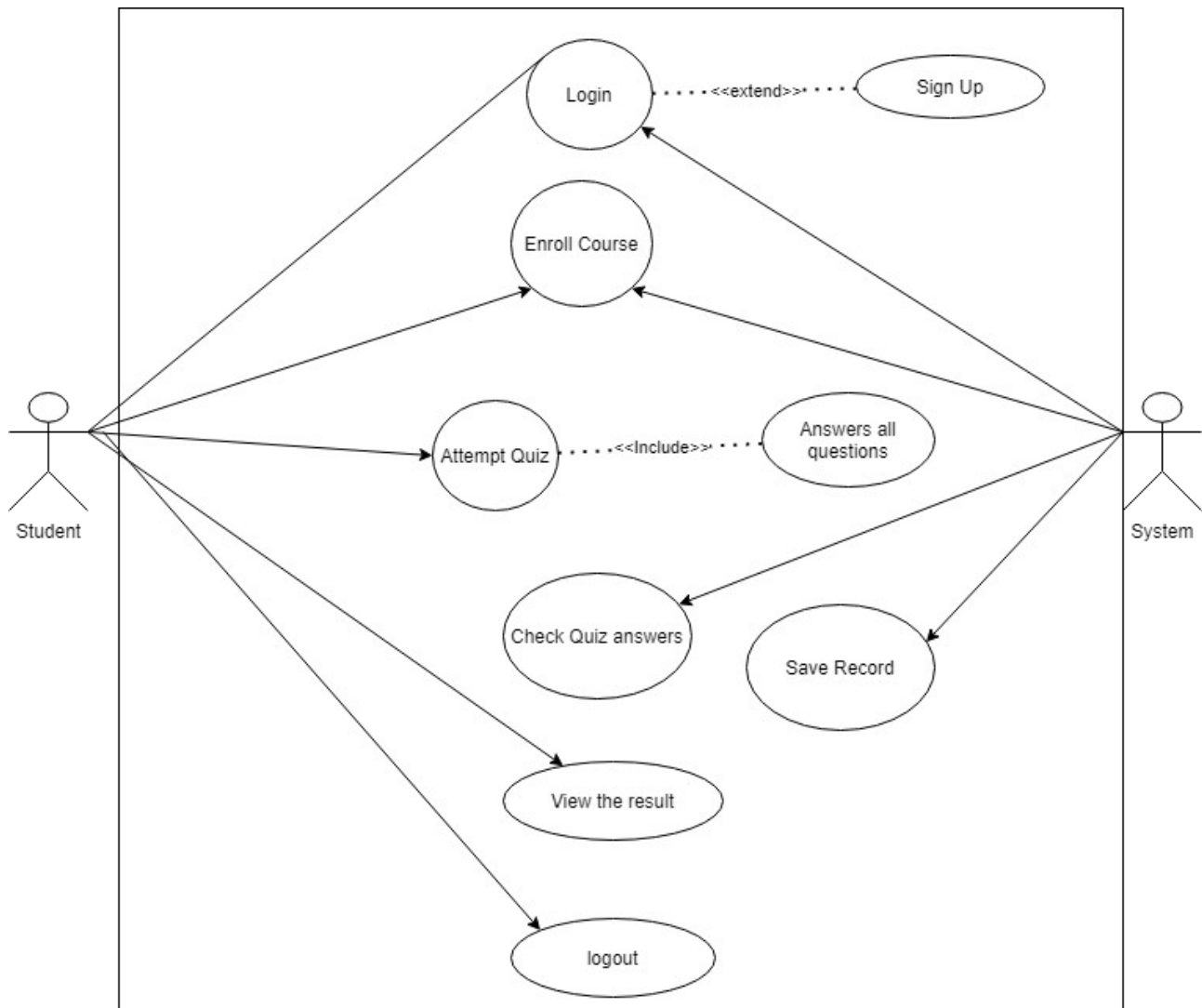
Student

- Sign up / Login
- Enroll courses
- Attempt Quiz
- Check Overall performance
- Check Results

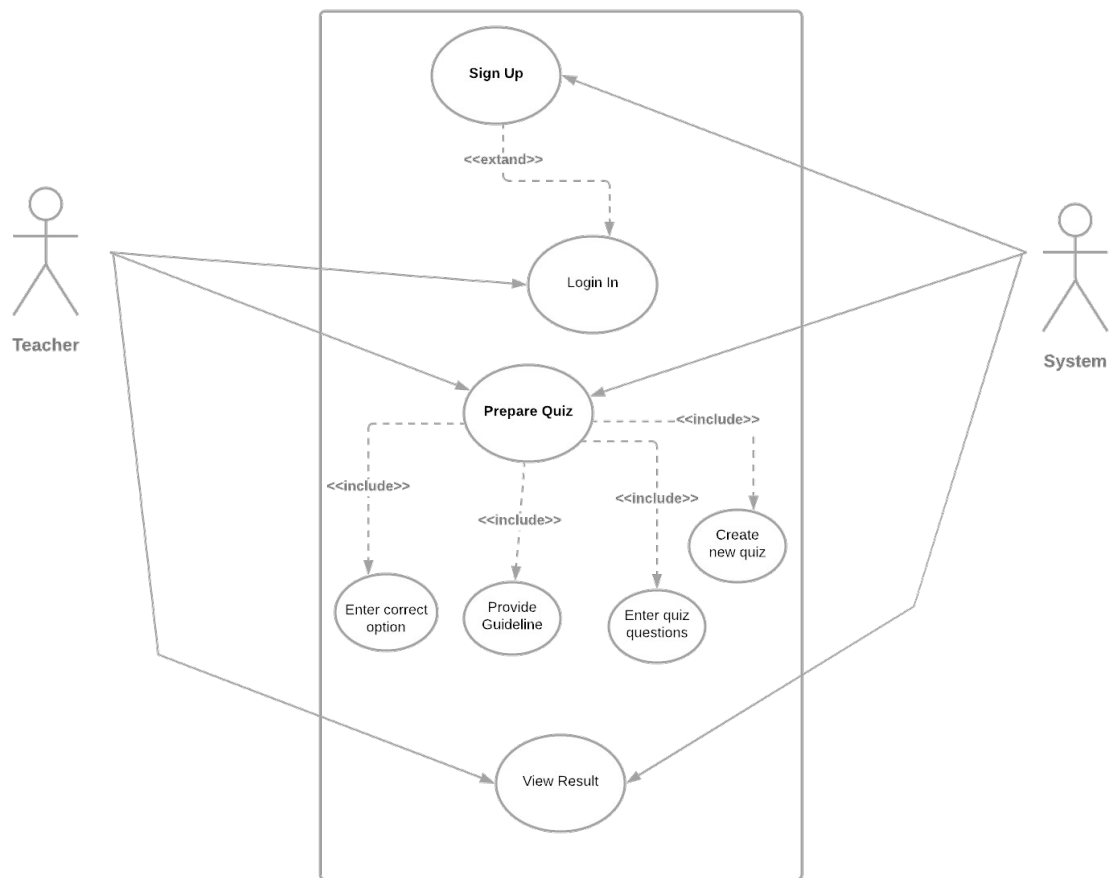
Non-functional Requirements

- Proper data storage management
- Friendly UI
- Simple UI
- Multiple Users at a time
- Security
- Integrity
- Readable
- Maintainable

Student Use Case Diagram:



Teacher Use case:



Administrator Use case diagram:

