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What is the Quiz Application System?

A digital platform to create, manage and participate in quizzes

Purpose:

Enhance learning, assessment, and engagement

How the System Works?

(From the teacher interface)

User login → Quiz cereation → Put questions → Put the correct answer

How the System Works?

From the student interface

User login → Quiz selection → Participation → Results analysis

(SRS)

- 1. Introduction

- 1.1 Project Scope

- The project aims to develop a user-friendly quiz application that allows users to create, participate in, and manage quizzes efficiently.

- 2. Overall Description
- 2.1 Product Features
- - User registration and authentication
- - Quiz creation and management
- - Quiz participation and scoring
- 2.2 User Classes and Characteristics
- - Admin: Can create and manage quizzes.
- - Participants: Take quizzes and view results.

- 3. System Features
- 3.1 User Registration
- Allow users to create accounts and log in securely.
- 3.2 Quiz Management
- Enables quiz creation, editing, and deletion by admins.
- 3.3 Quiz Participation
- Allow participants to take quizzes and view immediate results

- 4. External Interfaces Requirements
- 4.1 User Interface
- Intuitive and responsive interface for users to interact with the application.
- 5. Other Non-functional Requirements
- 5.1 Performance Requirements
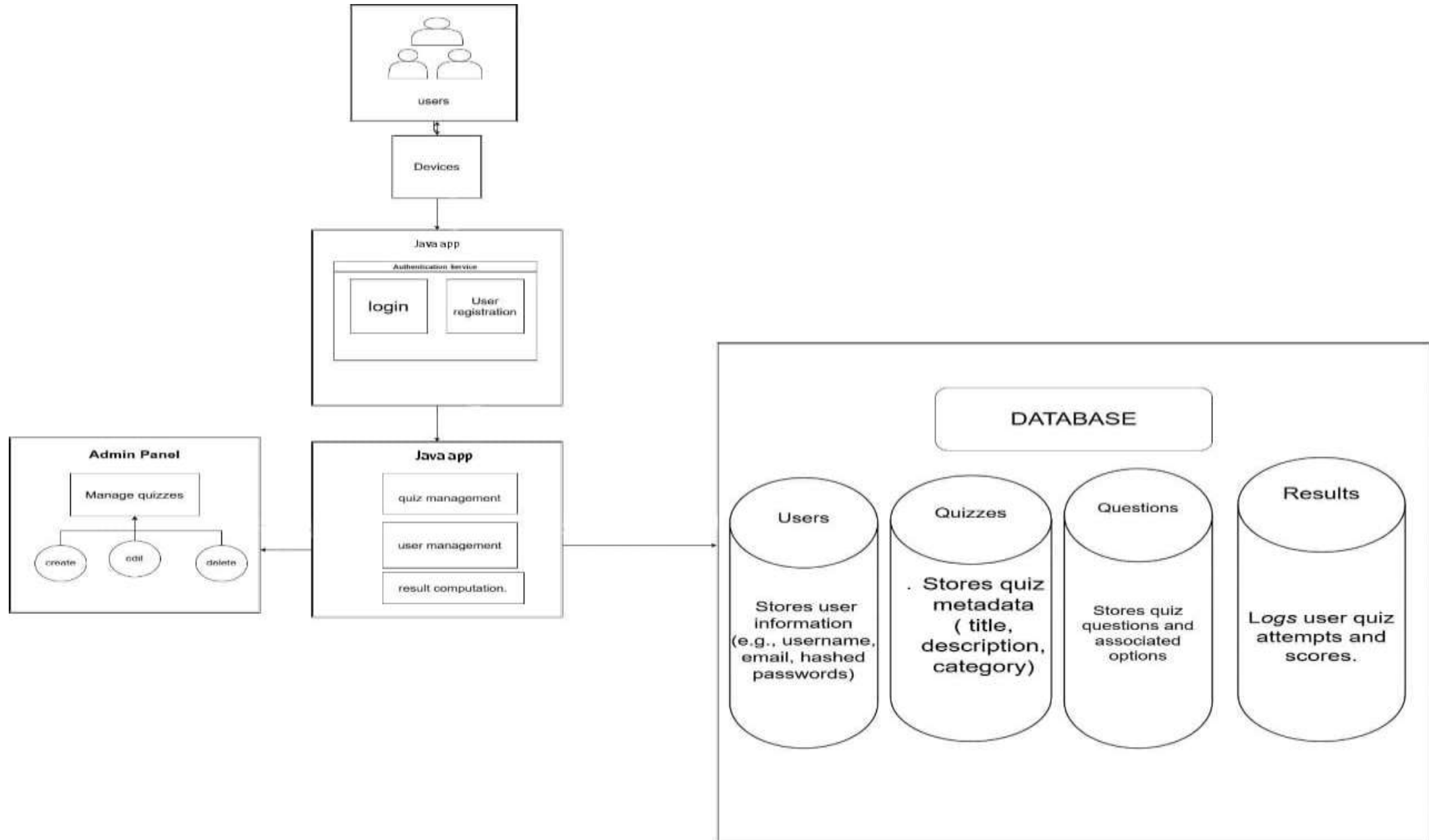- The application should manage concurrent user interactions efficiently.

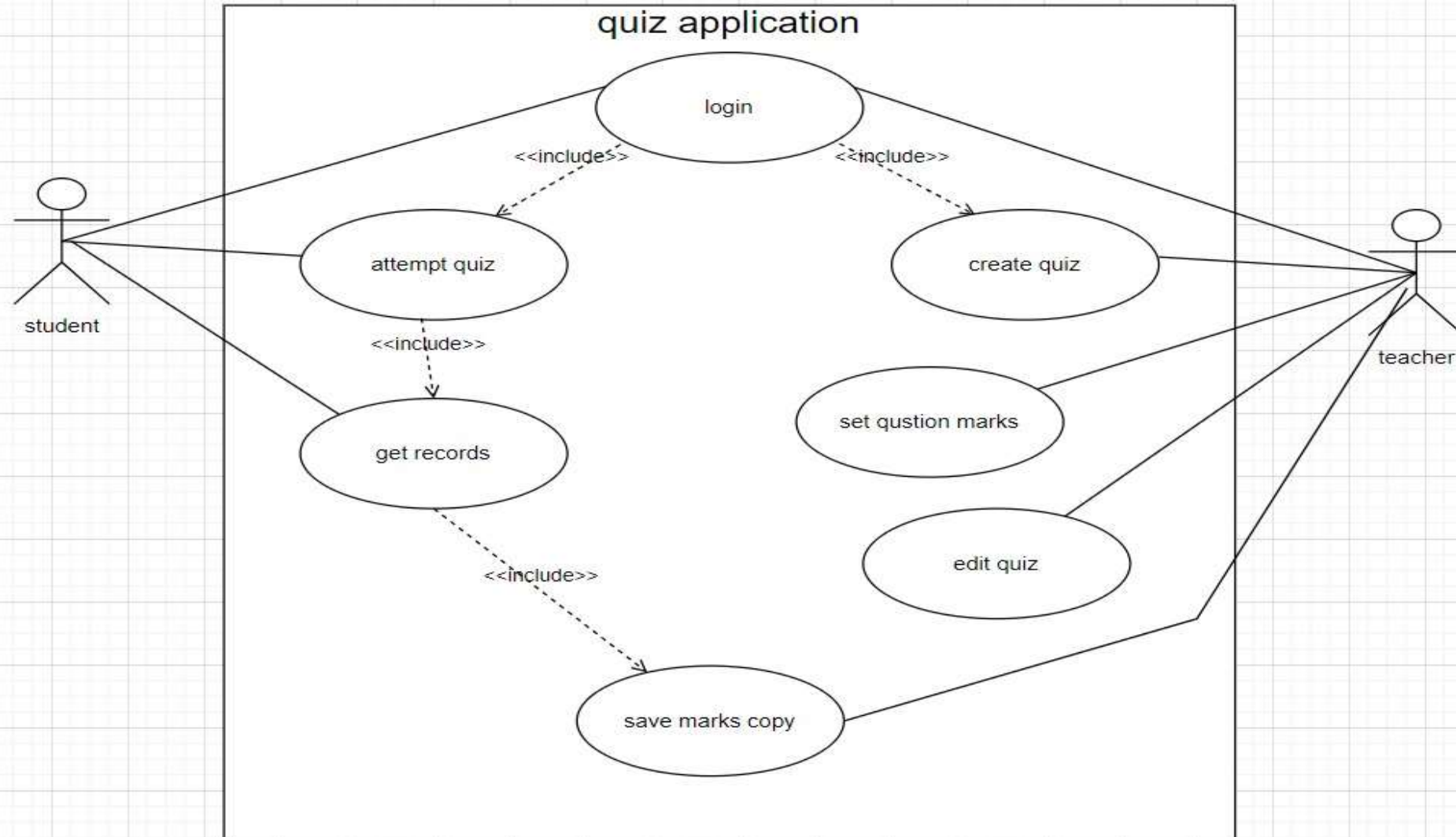- 6. Other Requirements
- 6.1 Glossary
- - Admin: User with privileges to create and manage quizzes.
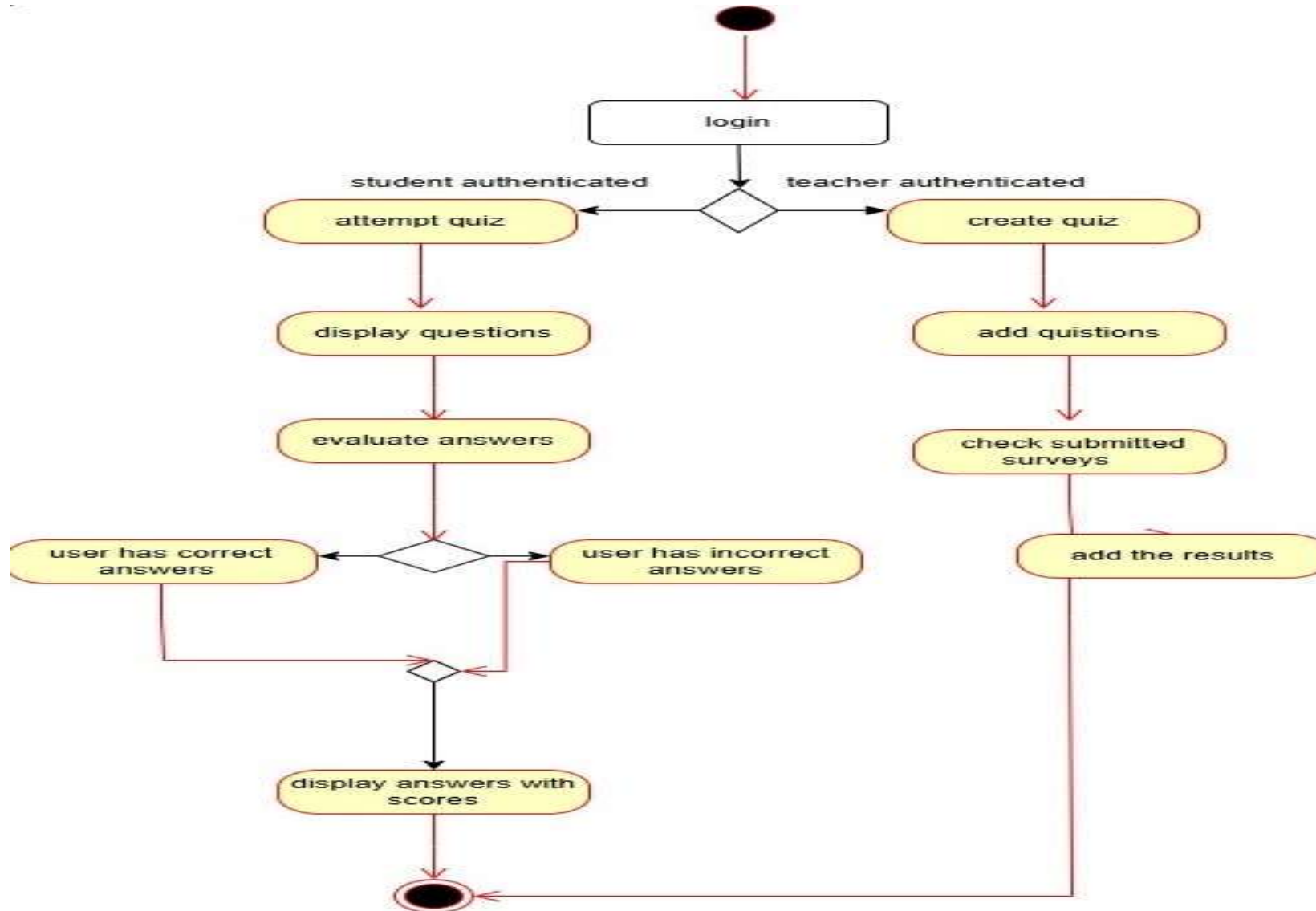- - Participants: Users who take part in quizzes.
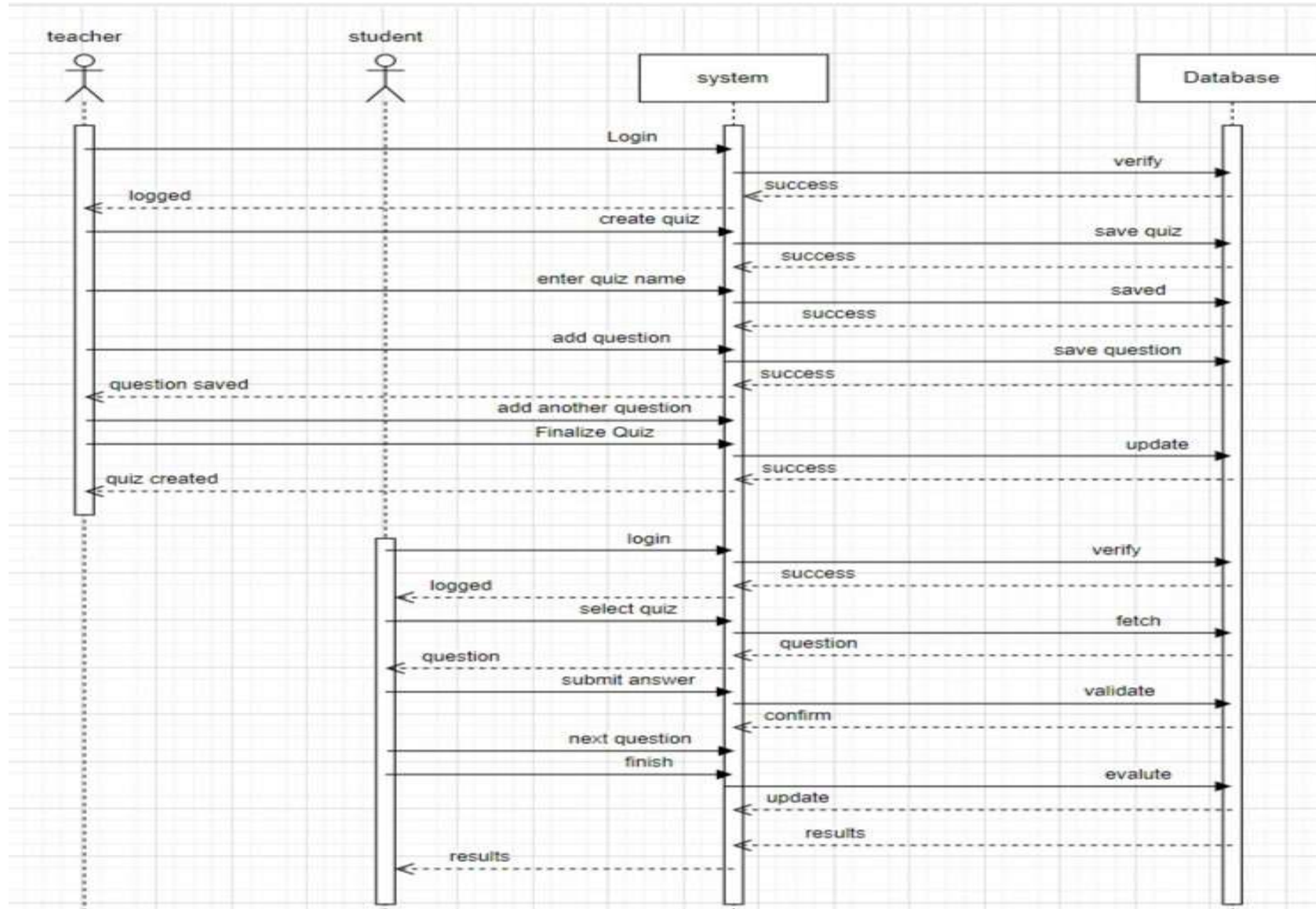
System Architecture
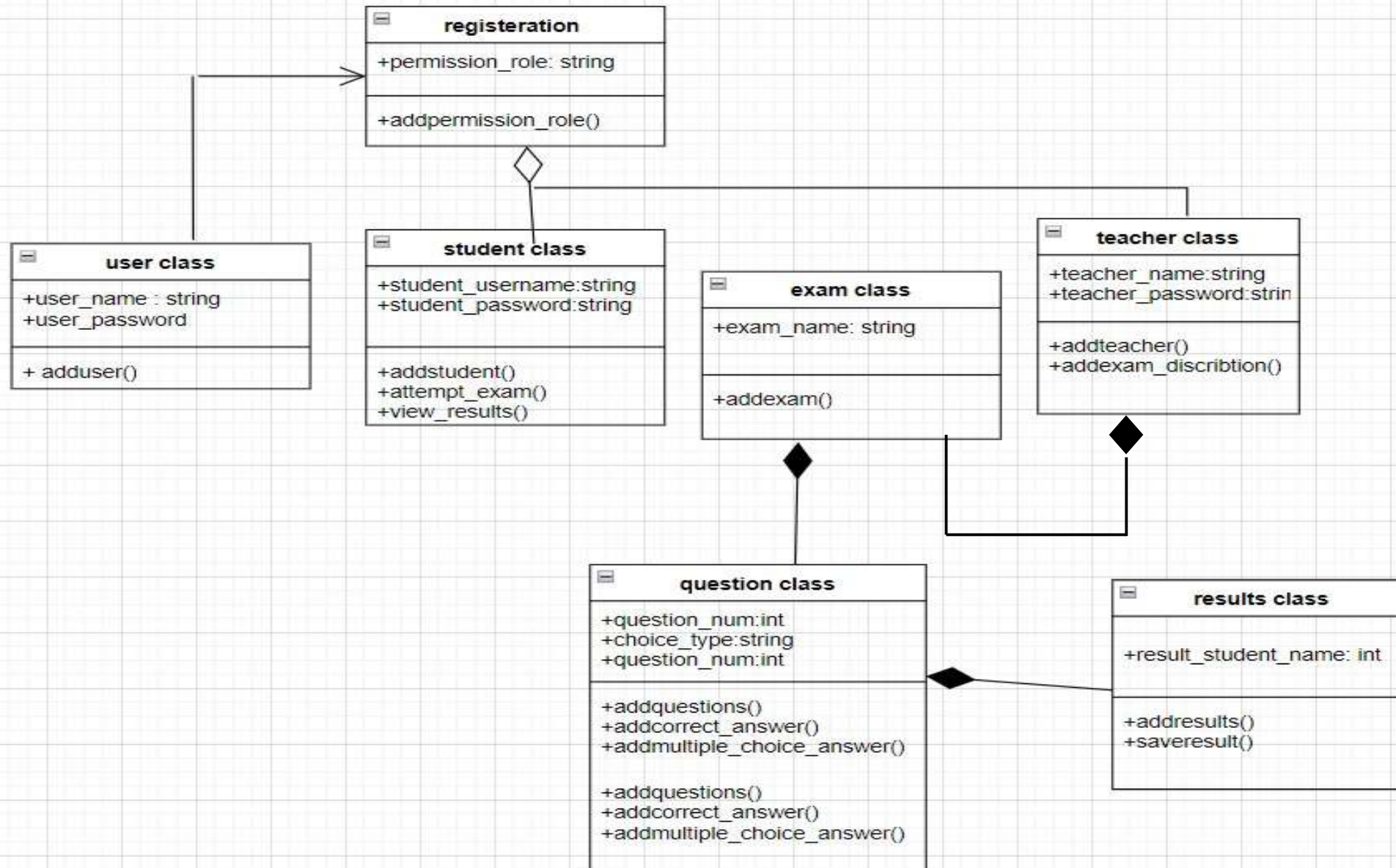
Use Case Diagram

quiz application

- login
- attempt quiz
  - <<includes>>
- create quiz
  - <<include>>
- set qustion marks
- get records
  - <<include>>
- edit quiz
- save marks copy
  - <<include>>

student

teacher

Activity Diagram

Sequence Diagram

Class Diagram

registeration

+permission_role: string

+addpermission_role()

user class

+user_name : string
+user_password

+ adduser()

student class

+student_username:string
+student_password:string

+addstudent()
+attempt_exam()
+view_results()

exam class

+exam_name: string

+addexam()

teacher class

+teacher_name:string
+teacher_password:strin

+addteacher()
+addexam_discribtion()

question class

+question_num:int
+choice_type:string
+question_num:int

+addquestions()
+addcorrect_answer()
+addmultiple_choice_answer()

+addquestions()
+addcorrect_answer()
+addmultiple_choice_answer()

results class

+result_student_name: int

+addresults()
+saveresult()

Interface

Quiz Application

Welcome to Quiz Application

[Register] [Login]

Quiz Application

Username:

Password:

User Type: student

Register

Quiz Application

Username:

Password:

Login

Quiz Application

Create Quiz   Logout

TEACHER

Input

? Enter quiz name:

[   ]

OK   Cancel

Input   ✕

? Enter question:

[   ]

OK   Cancel

Input   ✕

? Enter option 1:

[   ]

OK   Cancel

Input   ✕

? Enter option 2:

[   ]

OK   Cancel

Input   ✕

? Enter option 3:

[   ]

OK   Cancel

Input   ✕

? Enter option 4:

[   ]

OK   Cancel

Input   ✕

? Enter correct option (1-4):

[   ]

OK   Cancel

STUDENT

Quiz Application

Available Quizzes:

math

| Start Quiz | Logout |

Input   ✕

? Enter quiz name to take:

math

OK   Cancel

Input   ✕

? 5*5
1. 10
2. 15
3. 20
4. 25
Enter your choice (1-4):

4

OK   Cancel

Input   ✕

? 10*10
1. 50
2. 70
3. 100
4. 125
Enter your choice (1-4):

4

OK   Cancel

Quiz Results   ✕

ⓘ Quiz completed! Your score: 1/2

Thank you for participating!

OK

https://github.com/kareem5T9/Quiz-App.