

SOFTWARE REQUIREMENTS SPECIFICATION

COLLEGE ONLINE QUIZ SYSTEM



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[1] Introduction

1.1 Purpose

This is web application provides facility to conduct online examination in a college. It saves time as it allows large number of students to give the exam at the same time and display the result just after the exam is finished. The teacher in this online quiz system have the privilege to create, modify and delete the test papers and its particular questions.

1.2 Scope

This can be used in a lot of educational institutions. It can be used by a large number of student to give their exams any time as it is a web based application.

1.3 References

- IEEE Std 830-1998(Revision of IEEE Std 830-1993)
- IEEE Std 828-1998, IEEE Standard for Software

Configuration Management Plans.

- IEEE Std 610.12-1990, IEEE Standard Glossary of Software Engineering Terminology.
- R. Pressman 5E, reference book

[2] Overall description

This software is responsible for the recording and automating the task of conducting online quiz. It makes the faster working and good services with efficient user interaction.

2.1 Product functions

The product includes many functionalities of the organization. These functionalities are:-

- New student registration by admin.
- New teacher registration by admin.
- User database management.
- Score evaluation.
- To maintain records of student scores.
- To conduct online quizzes.
- Security management.

2.2 User characteristics

Many users such as Administrator, Teacher, Students, can use system. Only administrator of the system should be able to enter user information or modify any kind of information in the system, but every user, whether a teacher or a student, with a valid login ID and password should be able to

view his details such as his personal information, marks in previous tests etc.

2.3 Assumptions and dependencies

We assume all users have basic computer knowledge and also our quiz system provides good user interface and help section to help the user at any moment during visit to the website.

[3] Specific Requirements

Here we describe all the descriptions of the external interface requirements and functional requirements.

3.1 Non-functional requirements

Non-functional requirements are those requirements that constitute the overall attributed of the system such as portability, performance, security, etc.

3.1.1 User interfaces

It incorporates with effective GUI concepts and focuses on user-friendly systems. It has good, appealing, attractive, and aesthetic web pages with optimum hyperlink to select the required process.

3.1.2 Software Interfaces

Interfacing with several modules in order to perform various operations it require Database connectivity which is provided by MYSQL and Server interfacing which is provided by APACHE.

3.2 Functional requirements

Functional requirements specify which outputs should be produced from which given inputs. They describe the relationship between the input and the output of the system.

3.2.1 Validation to be performed

The user enters his registered email and password in the college in appropriate text and also specifies whether he is a teacher or a student in the third text box at the time of logging in.

3.2.2 New user registration by admin

Only the admin can add a new student or teacher. After having an account on the system the user, i.e. student or teacher, can change their personal details including their passwords.

3.2.3 Conduct Quiz

This system can effectively conduct a quiz from any device which can access a webpage by a student which has been registered in the system by the administrator. After the quiz the students can view their result with the correct answers.

3.3 Performance requirements

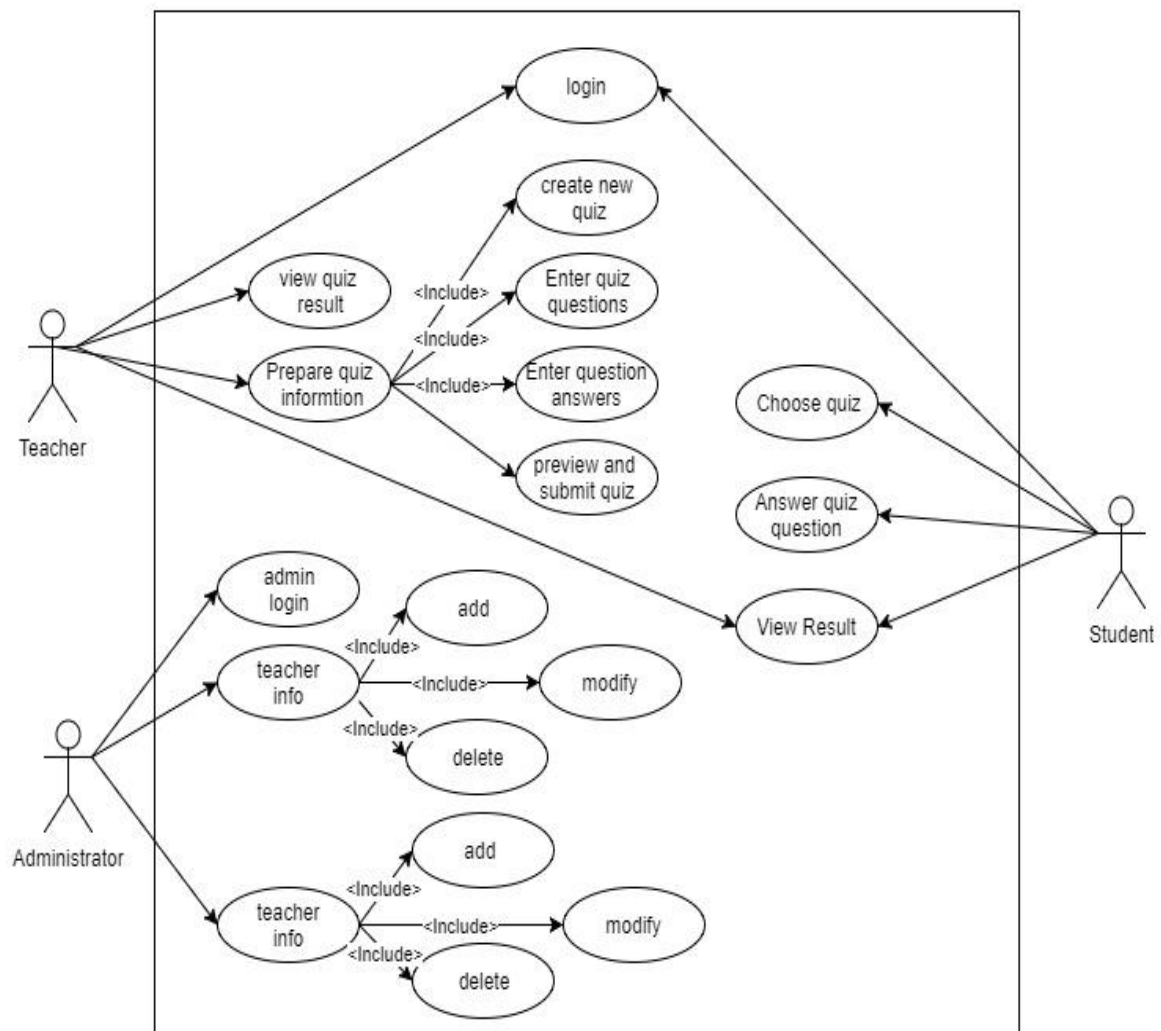
Requirements include, our total no of tasks such as login, new user registration will take certain time periods for both normal and peak workload conditions. Here we measure each task would be processed in less than 1 sec. It means 100% task performed in less than 1 sec.

3.4 Design constraints

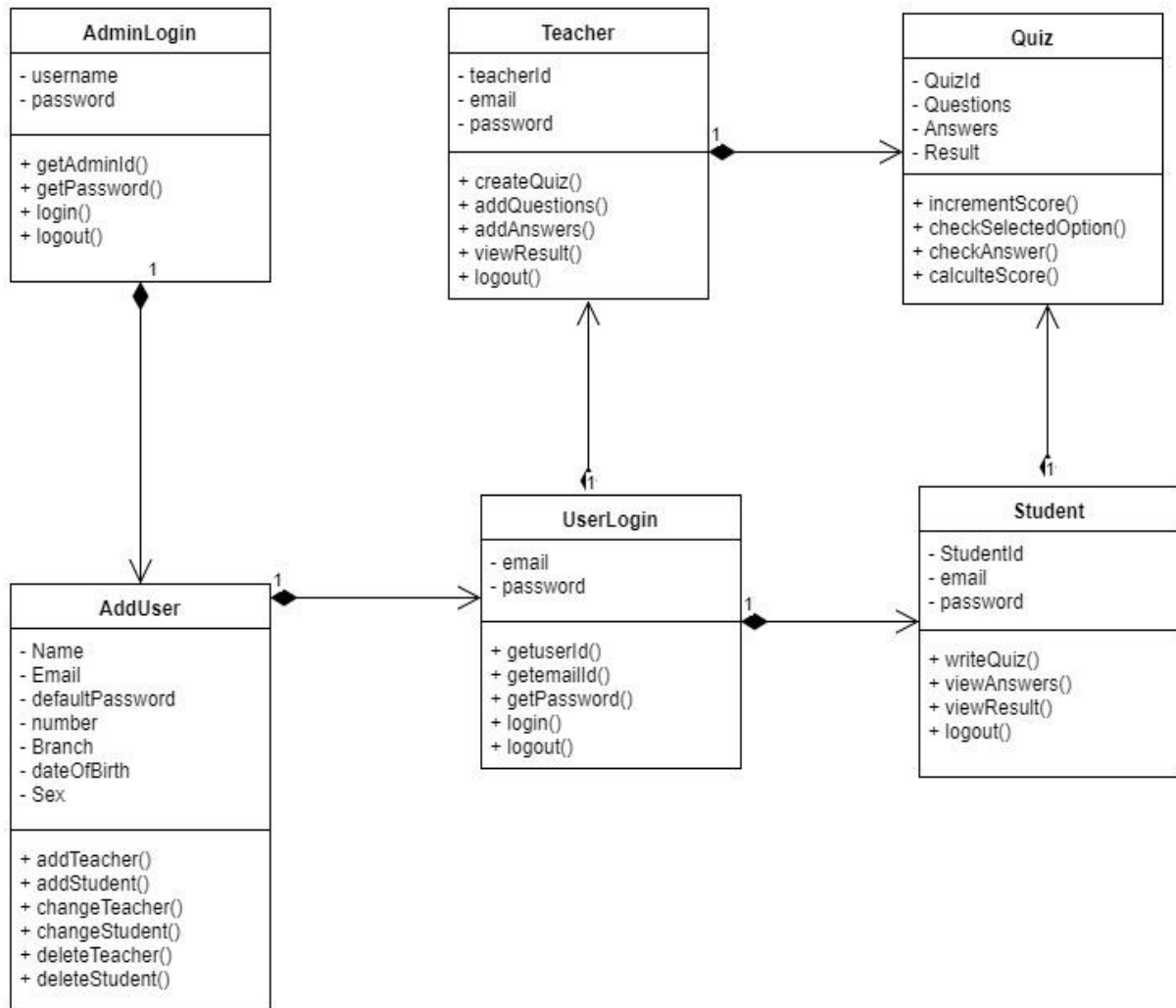
Design constraints that can be imposed by other standards, hardware limitations, etc. Also should specify the requirements derived from existing standards or regulations.

[4] Diagrams

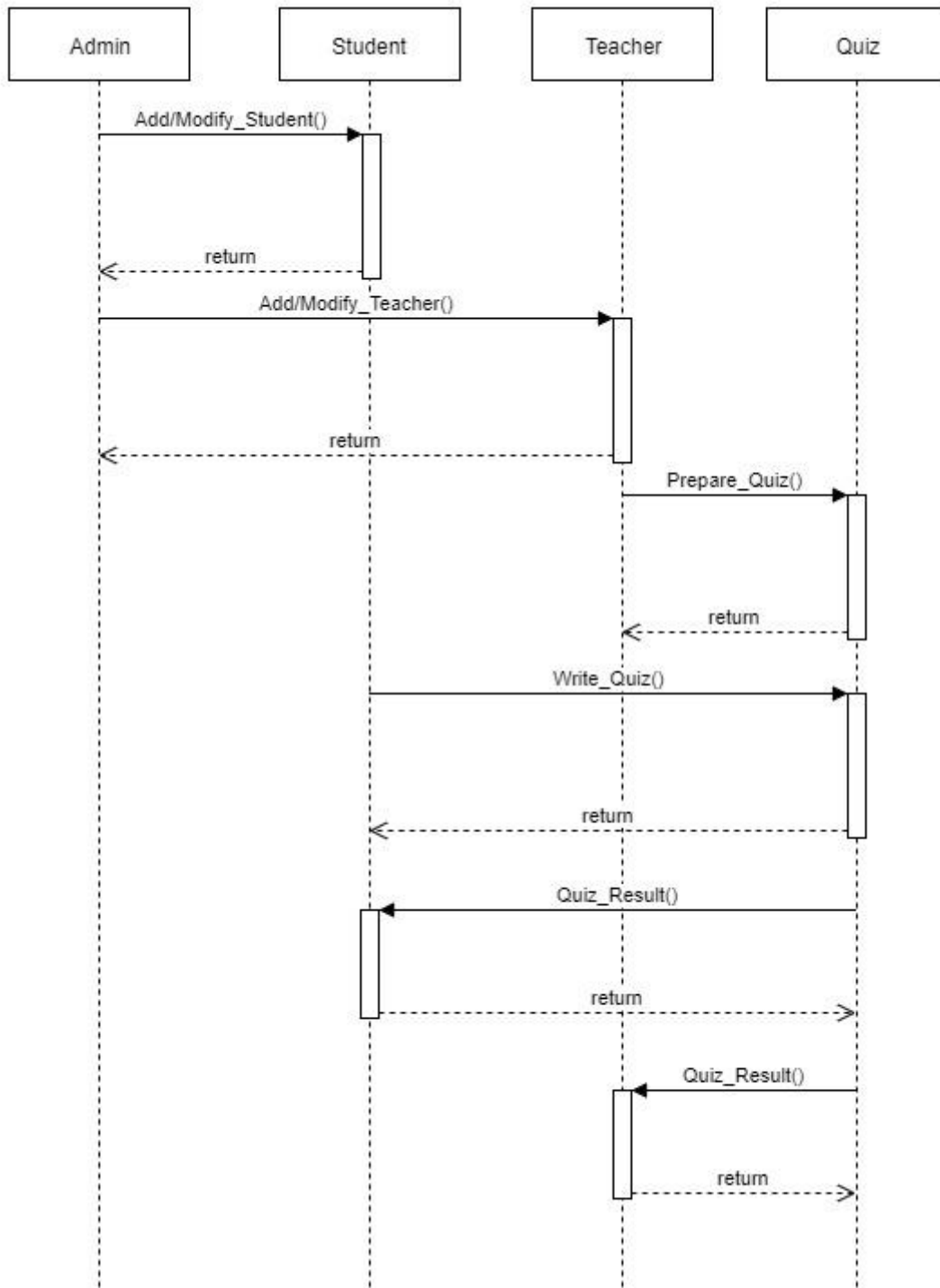
4.1 Use Case Diagram



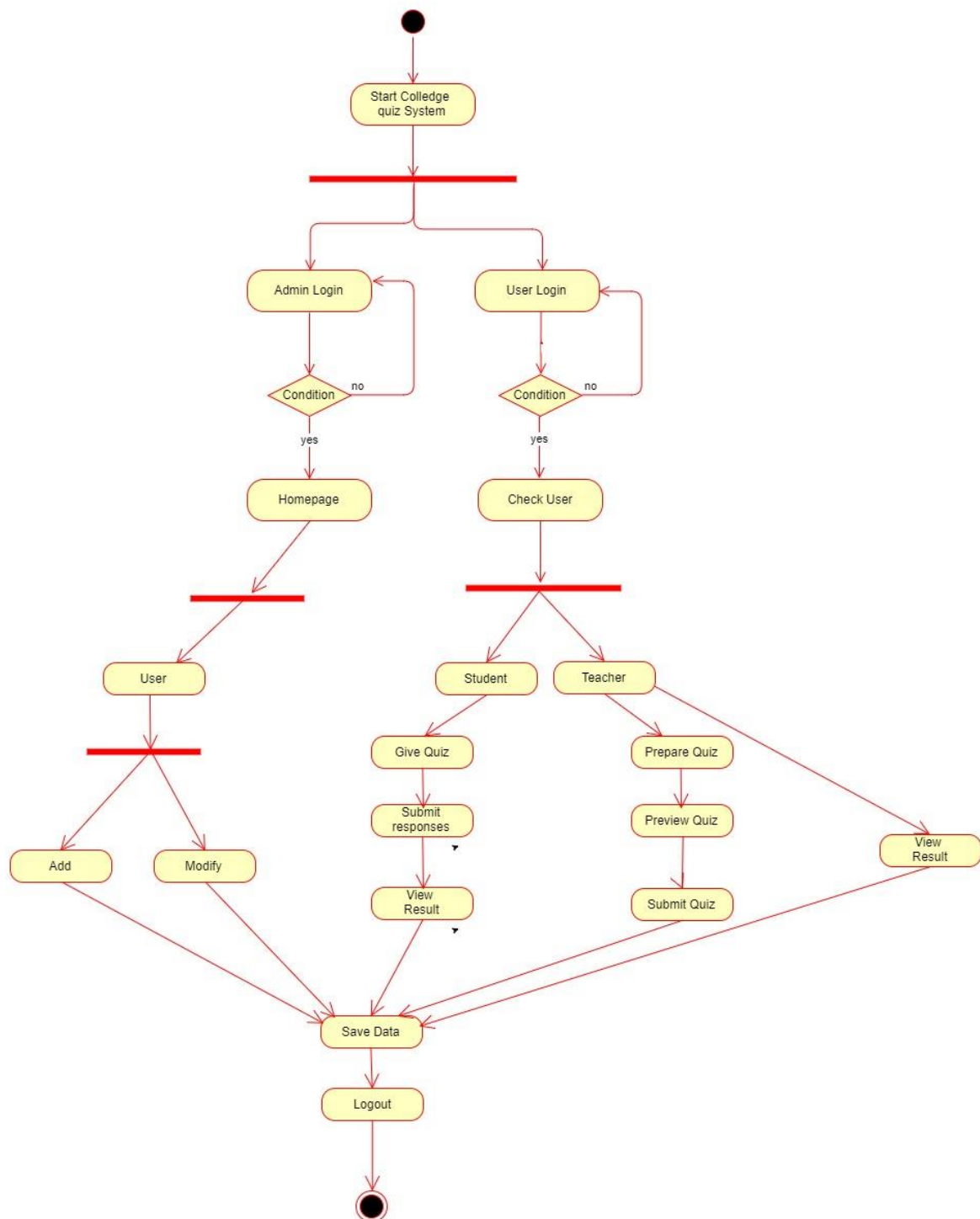
4.2 Class Diagram



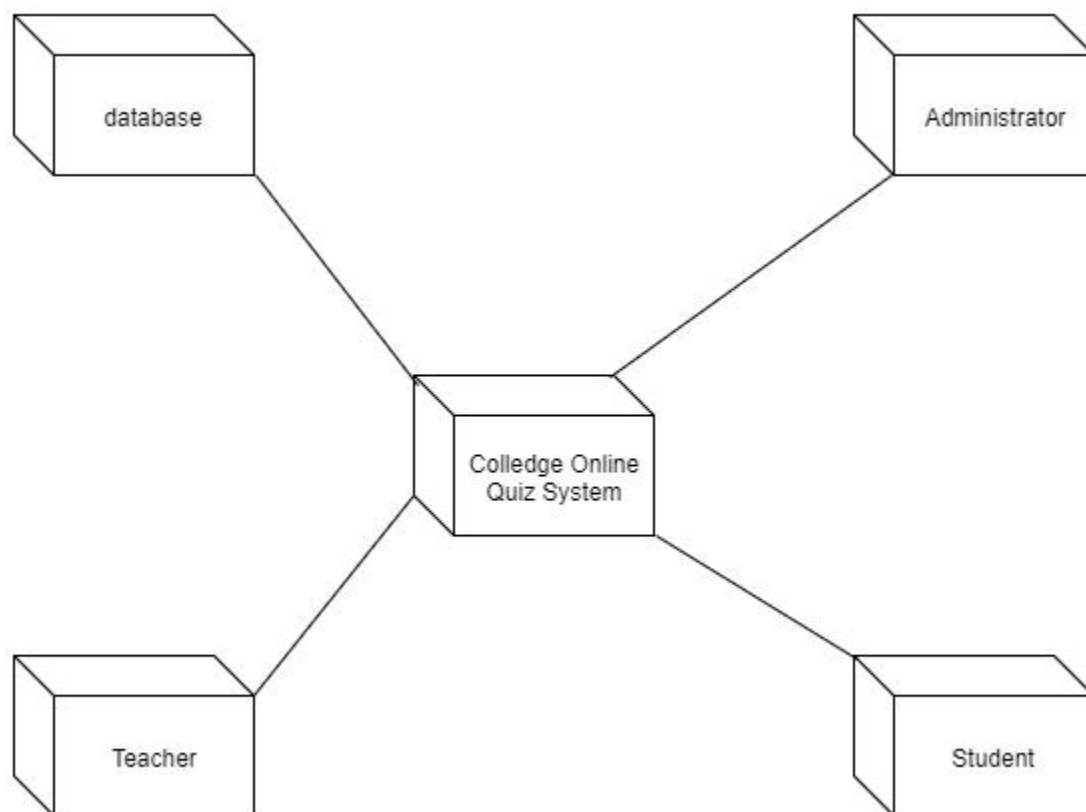
4.2 Sequence Diagram



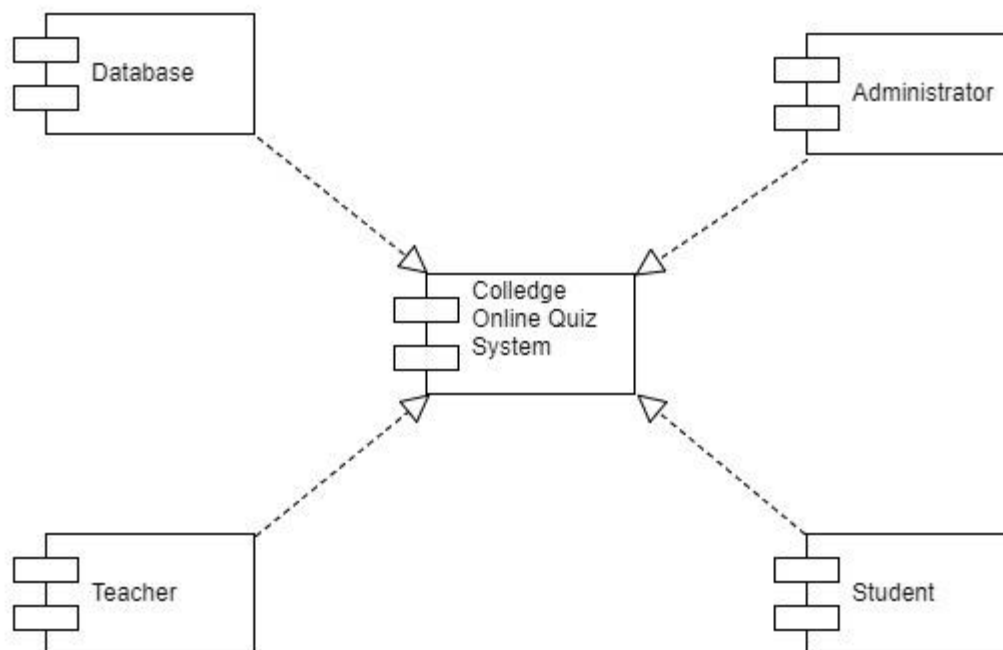
4.3 Activity Diagram



4.4 Deployment Diagram

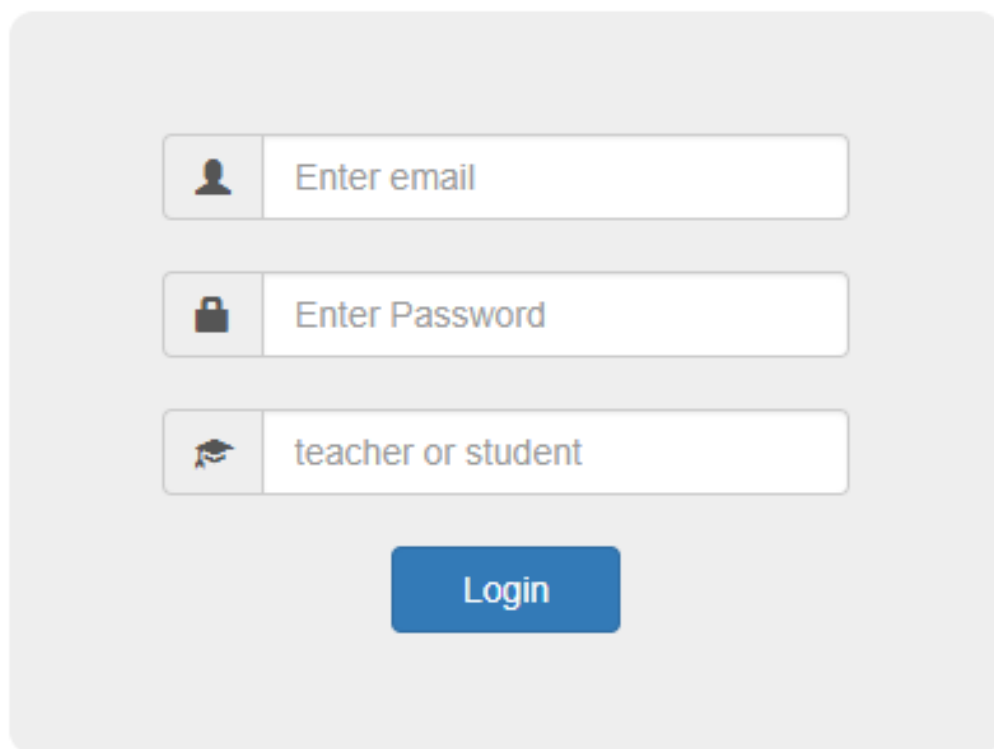


4.5 Component Diagram






[5] GUI Screenshots

5.1 User Login



A screenshot of a user login interface. It features three input fields stacked vertically, each with a small icon on the left and placeholder text. The first field has a person icon and the text "Enter email". The second field has a padlock icon and the text "Enter Password". The third field has a graduation cap icon and the text "teacher or student". Below these fields is a blue button with the text "Login". The entire form is set against a light gray background with rounded corners.

	Enter email
	Enter Password
	teacher or student

Login

5.2 Admin Home Page

Admin Panel Students Teachers Classes

⚙ Settings ▾ ↶ Logout

Add

Change

Delete

fname	year	number	email	branch	sex	dob	class
a	3	9829180222	ab@gmail.com	cs	male	2017-08-15	cse-b
Arjun	3	57899090342	arjun@gmail.com	cs	male	1997-02-03	cse-a
hawk	3	9829180111	hawk@gmail.com	cs	male	2017-08-10	cse-c
Snaheel	3	9829180751	snaheel18@gmail.com	cs	male	1996-05-07	cse-c

5.3 Teacher Quiz Preparation

Enter Subject

Enter quiz number

this quiz is for which class

Add Question


Change Question

Delete Question

Preview Qustion

5.4 Student Homepage

[Profile](#) [Teacher](#) [Quiz](#) [Settings](#) [Logout](#)



Hello Snaheel Yadav

Your Details

Date of Birth	1996-05-07
Current Year	3
Branch	cs
Section	cse-c
Email	snaheel18@gmail.com
Contact Number	9829180751

5.5 Online Quiz

[Profile](#) [Teacher](#) [Quiz](#) [Settings](#) [Logout](#)

The name of the Laccadive, Minicoy and Amindivi islands was changed to Lakshadweep by an Act of Parliament in

☐ 1971

☐ 1973

☐ 1972

☐ 1970

The members of the Rajya Sabha are elected by

☐ elected members of the legislative assembly

☐ Lok Sabha

☐ elected members of the legislative council

☐ the people

The power to decide an election petition is vested in the

☐ Election Commission

☐ High Court

☐ Parliament

☐ Supreme Court