Chapter 1

Functional Requirements

1.1 Home Page

User requirement

1. The user will access the Home Page of the website.

System Requirement

1. System shows a navigation bar along with it in the body all the elements with short info are available.

2. After clicking on any of the element, user will redirect to that specific functionality of the website.

1.2 LogIn and Register

User Requirement

1. The user will access the LogIn and Register page of the website.

2. The user will give input his/her credentials.

3. After giving all required information, then user submit the data.

System Requirement

1. System will authenticate the user inputs via database.

2. If authentication successful, the user will redirect to the Home Page of the website.

3. If authentication gets fail, an error message will be shown to notify the user and system waits for the second attempt of the user.

1.3   View Notes

User Requirement

1. The user will access the View Notes page of the website.

2. The user will select any of the Notes that he/she wants.

System Requirement

1. System will redirect the user to the link of the pdf notes that he/she selected if the user selected the View option of the notes.

2. If user selects the Download option then a pdf file is going to download on the browser.

1.4   About Us

User Requirement

1. The user will access the About Us page of the website.

System Requirement

1. System will redirect the user to a screen where Information regarding the overall website and Developer credits with bio present in a written manner.

1.5   Take Quiz

User Requirement

1. The user will access the Take Quiz page of the website.

2. The user will select any of the course from which he/she wants to take quiz.

3. The user starts the quiz by giving correct options via radio buttons.

4. After giving all the options against the MCQ, then the user submit his/her quiz.

System Requirement

1. System will redirect the user to the Take Quiz page where at first system will get input choice of course.

2. System will display the Quiz of that specific course that the student selected and waits for the student to solve it.

3. When user submit quiz, system will check if all the questions are attempted or not. If at least one is not answered then system will not submit the quiz and gives a proper message to the user.

4. If everything is according to the system, the system checks the quiz and the specific quiz score will be stored into the database.

1.6   My Quizzes

User Requirement

1. The user will access the My Quizzes page of the website.

System Requirement

1. System will redirect the user to a record where all of the quizzes attempted along with scores are available.

2. System will show the high scored quiz bold and according to that quiz, it gives the student to select that faculty for further progress.

## 1.7   Behaviour Requirements

1.7.1   Use Case View

The use Cases are being described below:

- Homepage Every user can access to this screen as this is the home screen of the website.

- About Us In order to get some info about the website, every user can also access to that option as well.

- LogIn and Signup If the student wants to take quiz or use any other functionality of the website, he/she should first register to the website.

- Authenticate This is responsible for the authentication of the user credentials via database.

- Take Quiz This functionality which is only for registered user redirect them to the quiz given section.

- View or Download Notes This functionality is also for registered user where user can view or download Notes.

The actors are being described below:

- Unregistered Student is the user who is outsider and is not registered yet and just exploring the website.

- Registered Student is the user who is registered himself/herself to the website. Full website access to that users.

- Teacher is the user who can view or download Notes and can somehow explore the website.

- Database is the external entity for authentication, storing and retrieving of data.
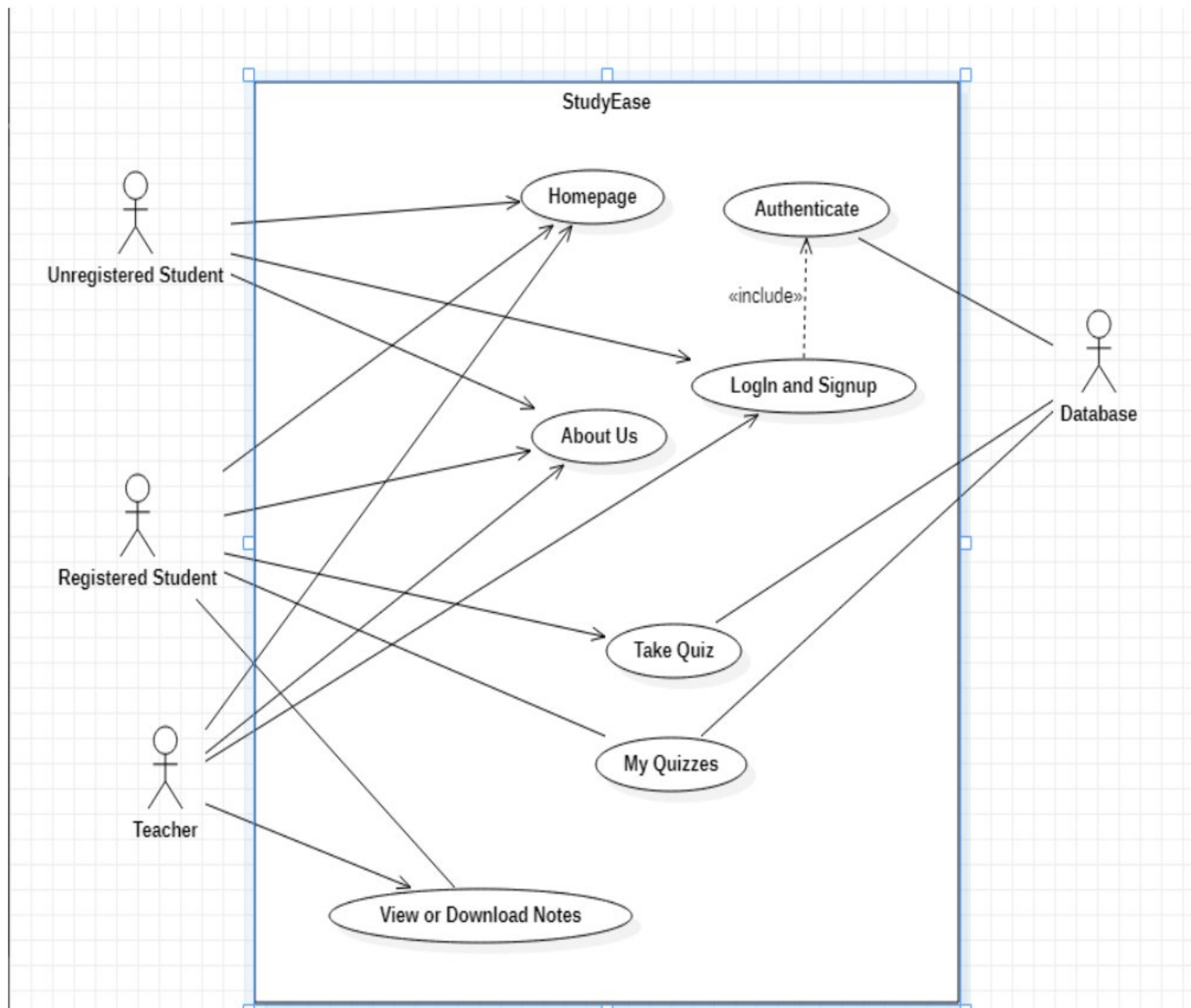
Chapter 2

Non-Functional Requirements

2.1 Performance Requirements

Since StudyEase is an interactive tool, therefore the major performance requirement is low response time.

1. When Clicking on the elements of the Homepage, the system should not take more than 4 sec to load.

2. After submitting the quiz, score should be added into the My Quizzes section instantaneously.

3. After selecting the download option of the notes, system should not take more than 6 sec to start the download.

4. While registering or logging in, user should not wait for more than 5 sec.

5. While viewing the notes, maximum system can load it in 10 sec subject to the internet speed.

2.2 Safety and Security Requirements

Safety

1. Any Computer hazards that leads to the destruction of the database then the website can be down at that moment.

2. If the pdf file notes is corrupted, the download option of the website can malfunctioned.

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Security

1. The password of the account of the user should be encrypted and secured.

2. The data of the My Quizzes section should be encrypted in the database as this is the confidential data of the user.

3. The correct option of the MCQ should be encrypted in the database.

2.3 Software Quality Attributes

2.3.1 Adaptability

There can be a change in the information stored in the database.

2.3.2 Availability

The system is up and running for most of the time and server is not down for more than a few minutes to avoid inconvenience of the clients.

2.3.3 Correctness

The checking of the Quiz must be correct in order to calculate the correct score.

2.3.4 Flexibility

If need arises in the future, software can be modified to change the requirements.

2.3.5 Interoperability

The data is transferred from the database to the web server and vice versa. This way data is transferred from one part of the system to another.

2.3.6 Maintainability

Software can be easily repaired if a fault occurs.

2.3.7 Portability

Software can be easily installed on devices and would run smoothly according to the requirement.

2.3.8 Reliability

No matter how many users access it, system must give the correct results.

2.3.9 Reuseability

Current version can be used in the future versions with more functionality added.

2.3.10 Robustness

Software must have checks to ensure that valid data items are entered.

2.3.11 Testability

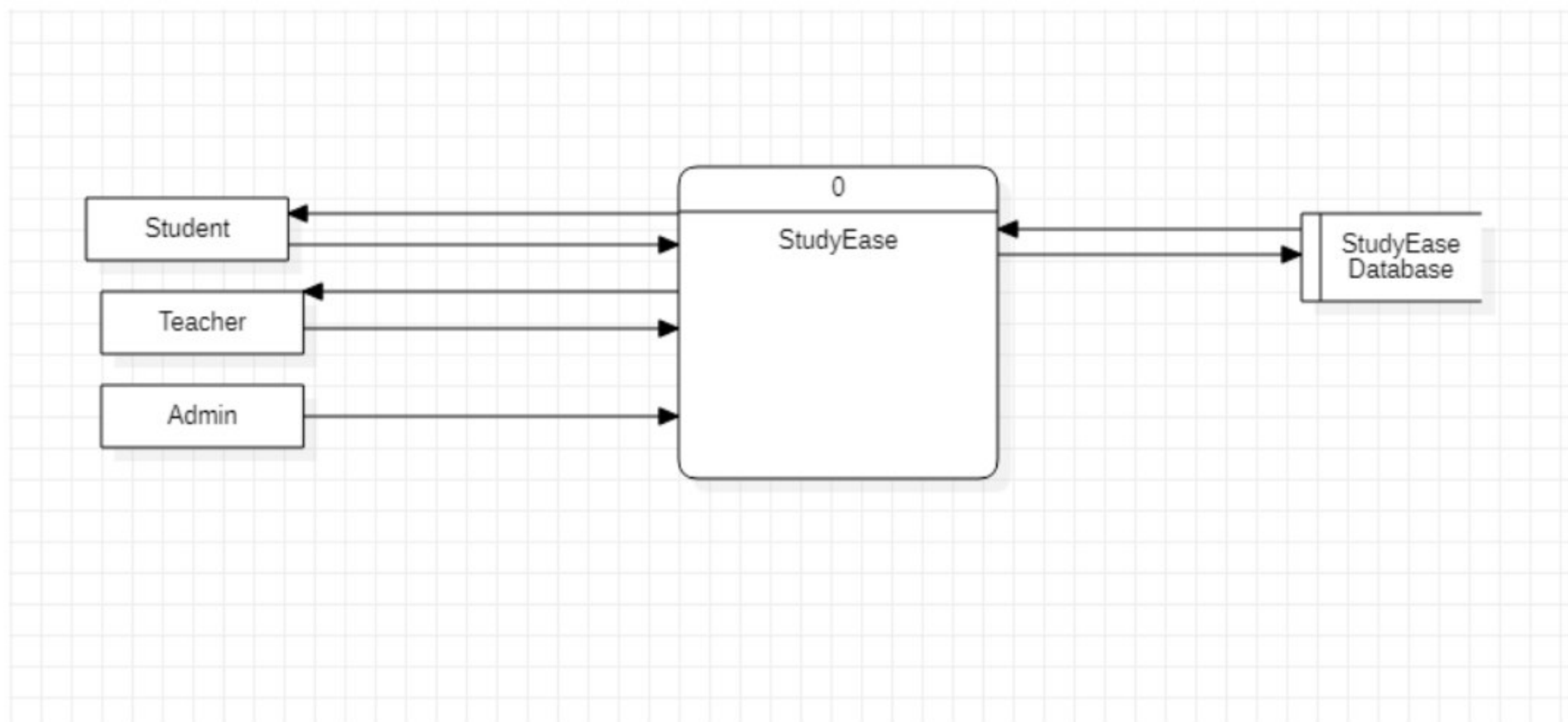All the requirements are fulfilled, response time is low, and all functions are working perfectly.

2.3.12 Useability

Interface of the software must be easy to use. It would not be complex since students have a view, so interface should be simple.
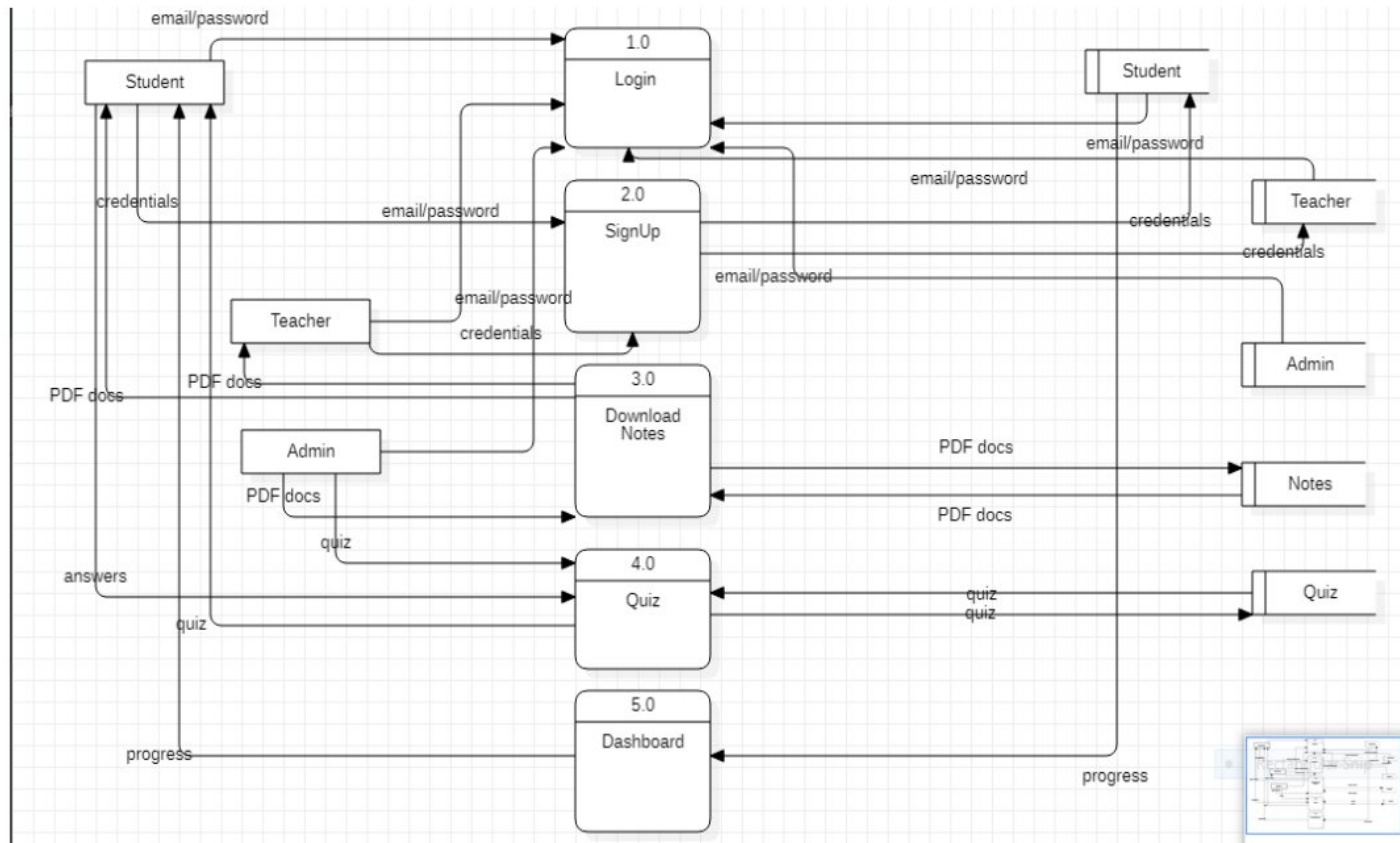
Chapter 3

Functional Modelling

3.1   DFD Level 0

3.2 DFD Level 1

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Take Quiz

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Notes

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Explore more..

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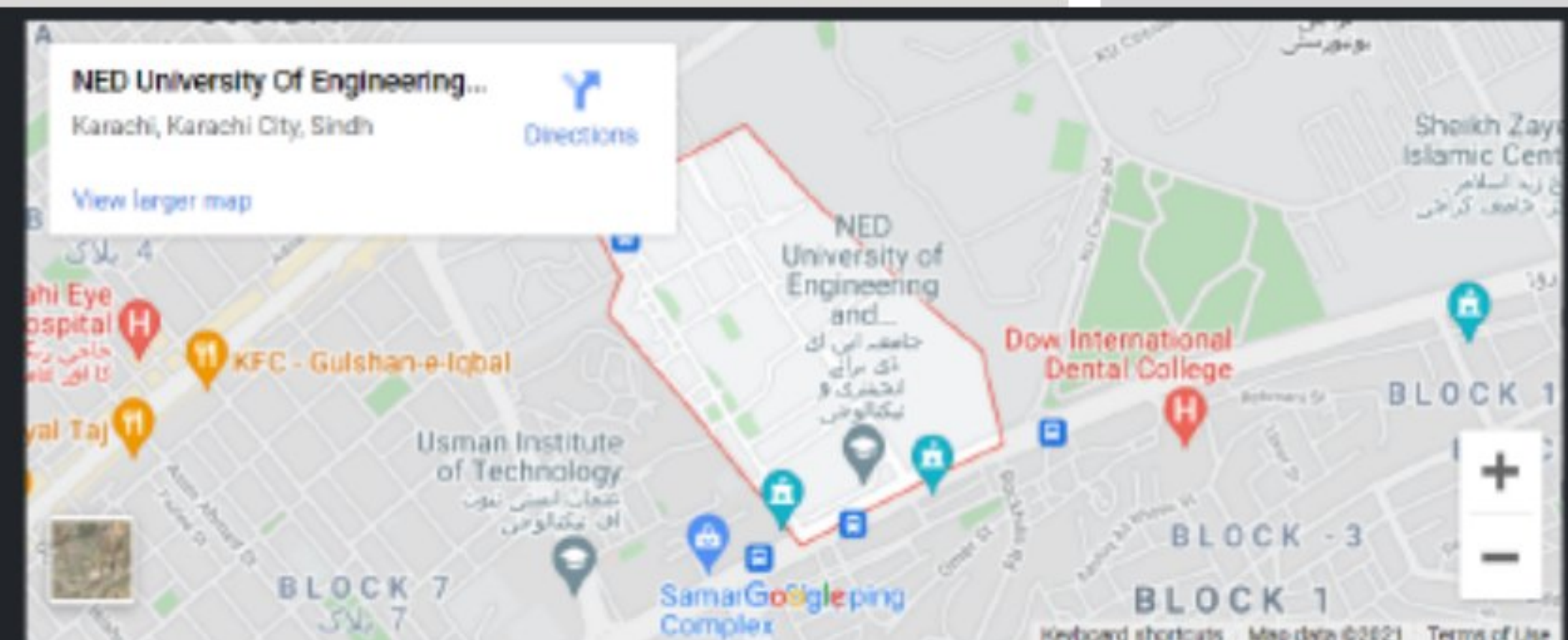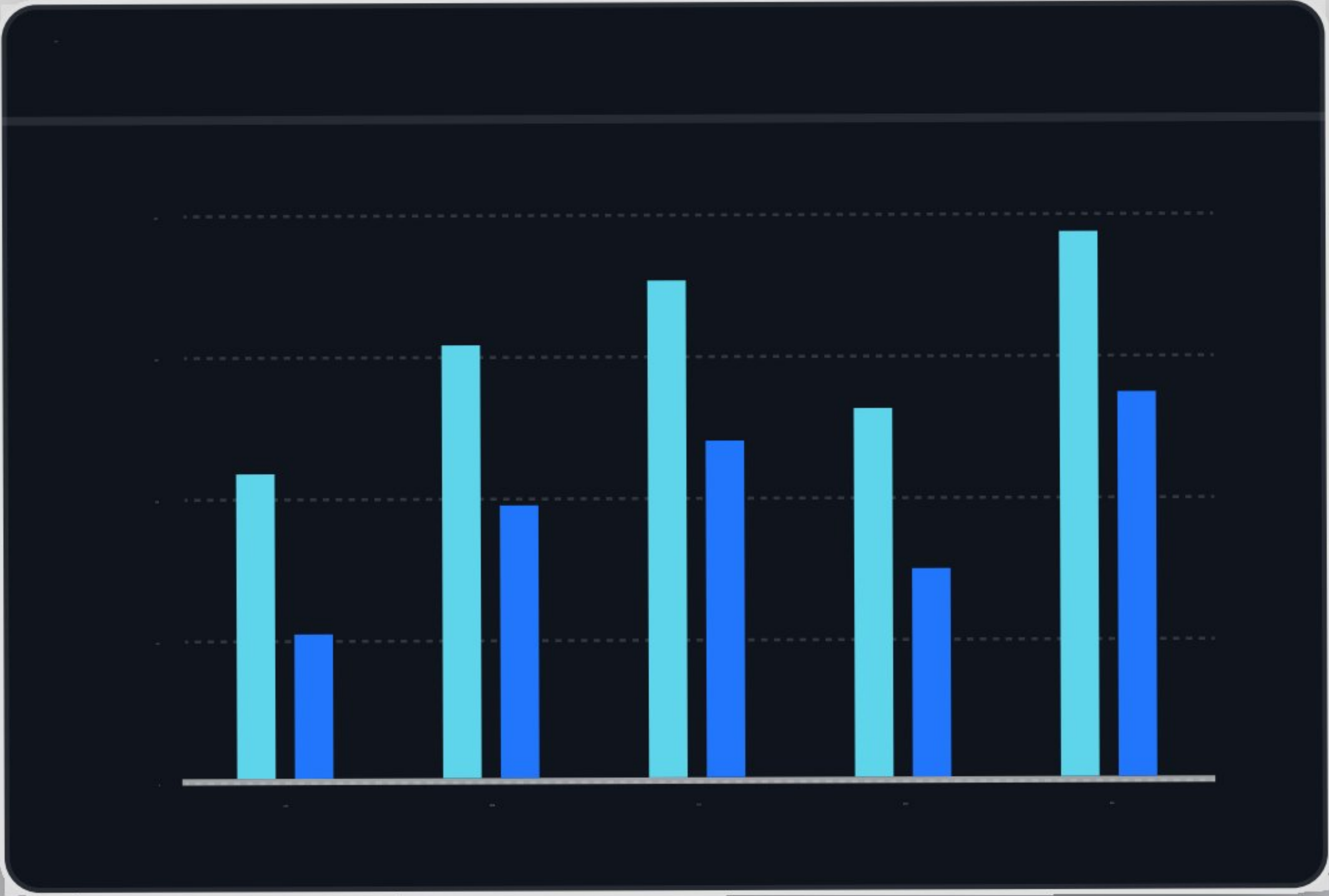
My Progress

Your Faculty of Interest is: Pre-Engineering.

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Quiz

Which Quiz you want to give?

Biology

Mathematics

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Quiz

Q.1 Which country operationalized world's largest radio telescope?

A. USA

B. China

C. Russia

D. India

Discard...   Submit..

Notes

1. Biology

1.1 The_Cell.pdf

1.2 Transport in Human.pdf

1.3 Respiratory System in Human.pdf

1.4 Circulatory System in Human.pdf

2. Mathematics

2.1 Real Numbers.pdf

2.2 Geometry.pdf

2.3 Mathematical Induction.pdf

2.4 Information Handling.pdf

2.5 Probability and Statistics.pdf

Let's take a quiz...

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• *FrontEnd Snaps:*

Mathematics
Quiz 01

Q.1: Differentiation of x is

(Select the correct option)

| a. 1 | b. x | c. dx |

Thank you
You scored 8/10
Persentage: 80%

localhost:3000/About

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About Us

Students need tools and information to help them make informed choices about life after high school. The path to discovery should begin as early as middle school so students can learn about all the educational and career possibilities ahead of them. W believe that career exploration at an early age can help students develop a clear plan for their future that lessens the financial burden of post-secondary education, and increases their chance of success in their careers....

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