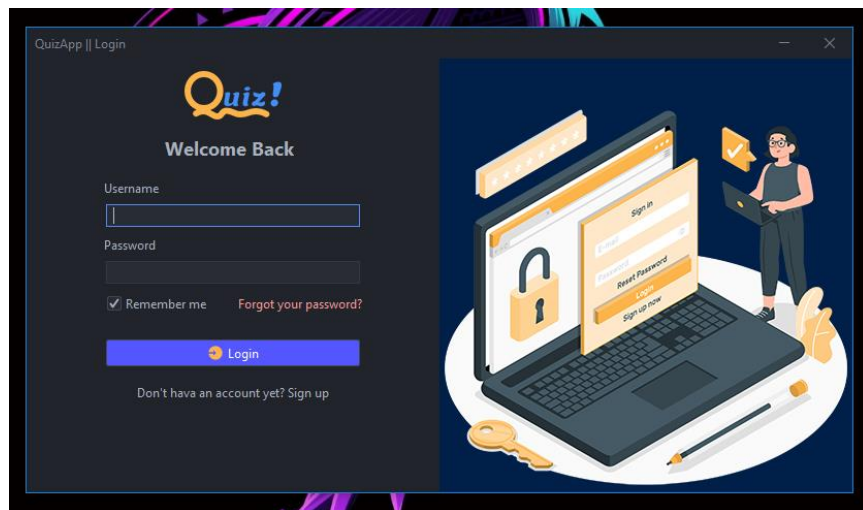




+ Details.

- A Quiz Application tests the user to solve MCQ exams in the programming field, send messages to admin, open URL social media and view total score.
- A Quiz Application create quizzes, view / delete messages, view / delete quizzes, view user details in system.

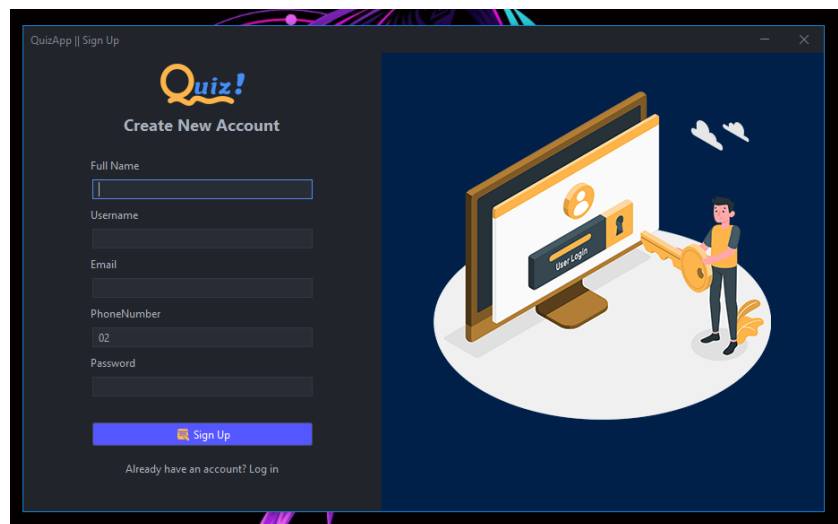
Login



The image shows the 'QuizApp || Login' window. On the left, there is a dark-themed login form with the 'Quiz!' logo and 'Welcome Back' text. It includes input fields for 'Username' and 'Password', a 'Remember me' checkbox, a 'Forgot your password?' link, a blue 'Login' button, and a 'Sign up' link at the bottom. On the right, there is a colorful illustration of a person standing next to a laptop. The laptop screen displays a login form with fields for 'Email', 'Password', and 'Sign Up now', along with a 'Reset Password' button. A large key icon is also visible on the laptop screen.

Set username and password to login or

Sign UP



The image shows the 'QuizApp || Sign Up' window. On the left, there is a dark-themed sign-up form with the 'Quiz!' logo and 'Create New Account' text. It includes input fields for 'Full Name', 'Username', 'Email', 'PhoneNumber' (with a '02' prefix), and 'Password'. There is a blue 'Sign Up' button and a 'Log in' link at the bottom. On the right, there is a colorful illustration of a person standing next to a monitor. The monitor displays a sign-up form with fields for 'Full Name', 'Username', 'Email', 'Phone Number', and 'Password', along with a 'Sign Up' button. A large key icon is also visible on the monitor screen.

To sign Up set (name, Username, Email, Phone, Password).



- Home page (ADMIN).

QuizApp | KHaled Adel

Welcome Admin
KHaled Adel

Home

Users

Quizzes

Messages

Settings

+

Users: 10

Total Quizzes: 3

Completed Total Quizzes: 13

New Messages

Ibrahim Elsayed

The font-size property in CSS is used to

More

New Users

ID	Name	Username	Email	Phone	Score
1	KHaled Adel	admin	khaled.3b8ynwo@g...	1157715742	0
2	Ibrahim Elsayed	ie	ibrahimelsayed182@...	112233456	125
3	Khaled Zakaria	kz	Khaled.Zakaria@gmai...	123456789	0
4	Amr Adel	aa	Amr@gmail.com	123456789	0
5	Hossam Fawzy	ho	hossam@gmail.com	123456789	0
6	Khaled Adel	Ka	khaled@gmail.com	123456789	5
7	KHaled adel	kaa	khaled@gmail.com	123456789	0
8	khaled adel	kaa	khaled@gmail.com	123456789	0
9	MMMM	mm	mm@gmail.com	123456789	0
10	Khaled Adel	kkaa	khaled@gmail.com	123456789	5

- Total User in System.

- Total Quizzes in System.

- Total completed Quizzes.

- Table User (ID, Name, Username, Email, Phone, Score).

- Box Messages (name, small TextOfMessage).

- Button User.

QuizApp | KHaled Adel

Welcome Admin
KHaled Adel

Home

Users

Quizzes

Messages

Settings

+

USERS

SEARCH USERNAME

ID	Name	Username	Email	Phone	Score
1	KHaled Adel	admin	khaled.3b8ynwo@gmail.com	1157715742	0
2	Ibrahim Elsayed	ie	ibrahimelsayed182@gmail.com	112233456	125
3	Khaled Zakaria	kz	Khaled.Zakaria@gmail.com	123456789	0
4	Amr Adel	aa	Amr@gmail.com	123456789	0
5	Hossam Fawzy	ho	hossam@gmail.com	123456789	0
6	Khaled Adel	Ka	khaled@gmail.com	123456789	5
7	KHaled adel	kaa	khaled@gmail.com	123456789	0
8	khaled adel	kaa	khaled@gmail.com	123456789	0
9	MMMM	mm	mm@gmail.com	123456789	0
10	Khaled Adel	kkaa	khaled@gmail.com	123456789	5

- Search User By USERNAME.



- Table User (ID, Name, Username, Email, Phone, Score).

-Button Quizzes.

ID	Quiz Name	Tag	Details
99000	HTML	Frontend	HTML Multiple choice questions (MCQ)
99001	CSS	Frontend	CSS MCQ
99003	JS	Frontend	Js MCQ

- Search Quiz By TAG.

- Table QUIZ (ID, Name, Tag, Details).

-Button Messages.

ID	Name	Email	Phone	Text Message
1	Ibrahim Elsayed	ibrahimelsayed182@gmail.com	123456789	The font-size property in CSS is used to sp...

- Search Message by ID.

- Table Message (ID, Name, Email, Phone, Text).



-Button Setting.

QuizApp | KHaled Adel

Welcome Admin
KHaled Adel

Home

Users

Quizzes

Messages

Settings

+

Admin

KHaled Adel
@admin

SETTINGS

Name: KHaled Adel

Username: admin

Facebook: https://www.Facebook.com

Twitter: https://www.Twitter.com

Email: khaled.3b8ynwo@gmail.com

Phone Number: 1157715742

Github: https://www.Github.com

Youtube: https://www.Youtube.com

Password:

WebSite: https://www.MyWebsite.com

Update

- Update

Name, Username, Email, Phone, Password

Facebook, GitHub, Twitter, YouTube.

-Button AddQuiz.

QuizApp | KHaled Adel

Welcome Admin
KHaled Adel

Home

Users

Quizzes

Messages

Settings

+

ADD QUIZZES

Name:

Tag:

Details:

Add

QuizApp | KHaled Adel

Welcome Admin
KHaled Adel

Home

Users

Quizzes

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Settings

+

ADD QUESTIONS

Question:

Choices:

Add

Done

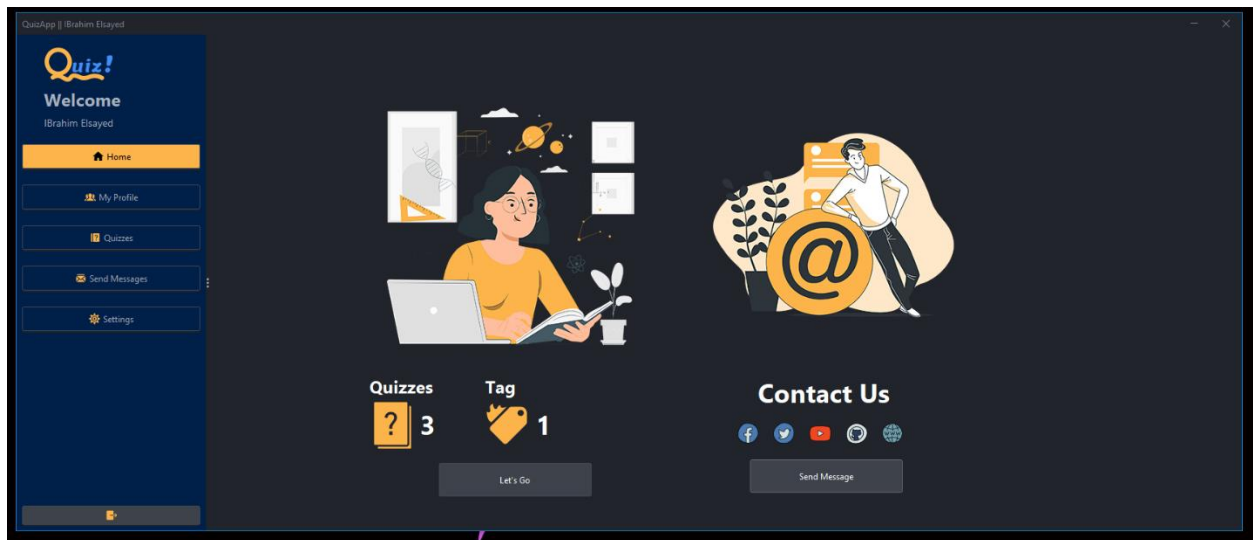
- Add Quiz.

(Name, Tag, Details, Questions [Question, Choses]).

- Button Logout.



- Home page (USER).

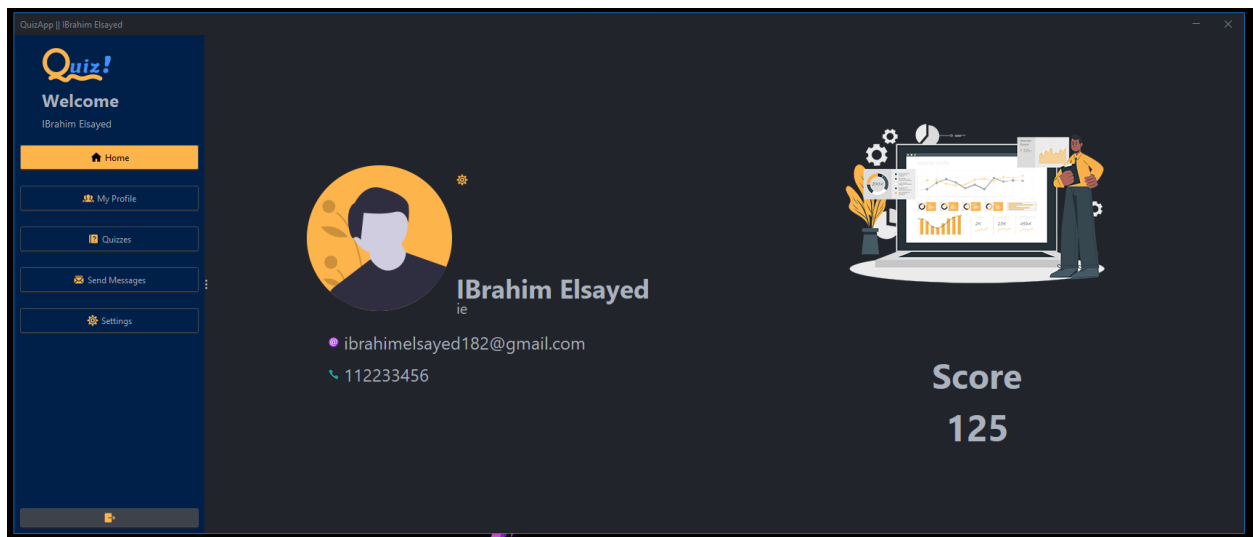


- Total Quizzes in System.

- Total Tags in System.

- Contact Us (Facebook, GitHub, Twitter, YouTube).

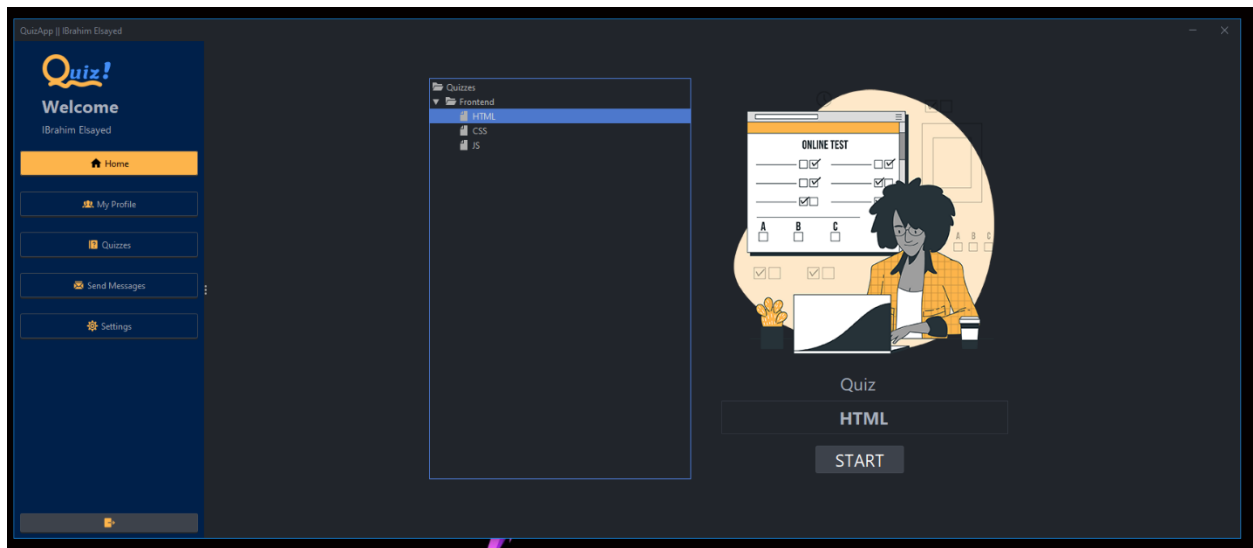
- Button My Profile.



- View (Name, Username, Email, Phone, Score)

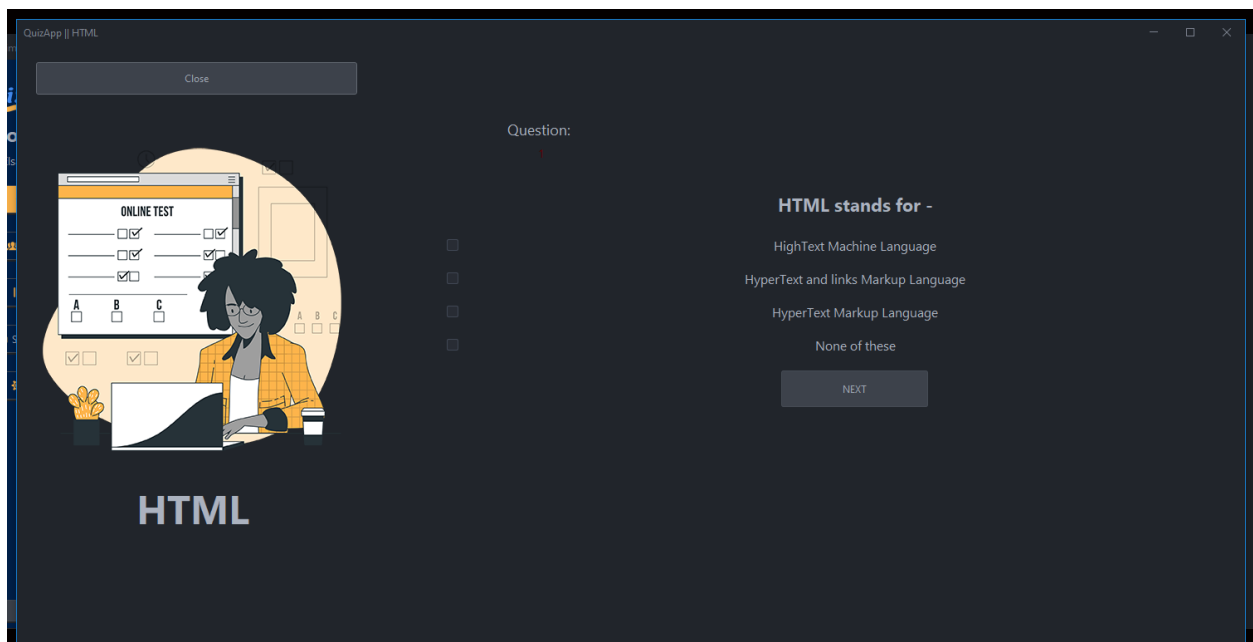


- Button Quizzes or Let's GO.



- Select any Quiz to do Quiz.

- Button Start.



- Next Questions.

- Close Quiz.



- Button Send Message.

The screenshot shows the Quiz! app interface. On the left is a dark blue sidebar with the 'Quiz!' logo, 'Welcome Ibrahim Elsayed', and a list of menu items: Home (highlighted), My Profile, Quizzes, Send Messages, and Settings. The main area has a dark background with an illustration of a woman holding a large envelope. Below the illustration are input fields for 'Name', 'Email', and 'Phone', followed by a large 'Message' text area and a 'Send' button.

- To send message set
(Name, Email, Phone, Text).

- Button Setting.

The screenshot shows the Quiz! app settings screen. The sidebar is identical to the previous screen. The main area features a profile card for 'Ibrahim Elsayed' with a circular avatar icon. Below the card is the 'SETTINGS' section with four input fields: 'Name' (containing 'Ibrahim Elsayed'), 'Username' (containing '@ie'), 'Email' (containing 'ibrahimelsayed182@gmail.com'), and 'Phone Number' (containing '112233456'). There is also a 'Password' field. An 'Update' button is located at the bottom of the settings section.

- Update

Name, Username, Email, Phone, Password



Functional Requirements.

Admin login	admin can enter username and password to access admin frame.
View Users	Admin can see all users in the system.
Add Quizzes	Admin can see app quizzes in the system.
View Quizzes	Admin and User can see all quizzes in the system.
Delete Quizzes	Admin can delete any quiz in the system.
View Messages	Admin can see all Messages in the system.
Delete Messages	Admin can delete any Messages in the system.
Update profile	The system shall allow “ Admin / User ” to update their profile.
View profile	The system shall allow “ Admin / User ” to view their profile.
User Registration	The system allows the user to sign up for the first time by entering a name, E-mail, username, phone, and password.
User login	The system allows the user to log in with username and password to search.
Send Messages	User can send message to admin in the system.
Do Quiz	User can do quiz in the system
View Score	The system shall allow “ User ” to view their scores.
Contact Us	The system shall allow “ User ” to contact us.



Non - functional Requirements.

- **Security:**

Security requirement is very important in this project, including privacy. The administrator should provide high security interface for user and protect their personal data.

There should be proper security regarding to the accessing of data by unauthorized user.

- **Performance:**

The performance of the functions and every module should be well.

The system operates its functions in a small amount of time which is less than two second.

- **Usability:**

The system is very simple, has friendly user interface and easy for users to interact with it.

- **Availability:**

The system will be available to its users at any time whenever they want.

The system shall have its expected downtime announced at least 48 hours in advance .

- **Evolvability:**

The system shall be easily extensible and evolvable .

- **Maintainability:**

Users can connect to each in the system .

The system shall be easily maintainable.

- **Correctness:**

The results of the function should be pure and accurate by validating or testing the system.

- **Portability:**

The software shall be deployed at any machine.

- **Reusability:**

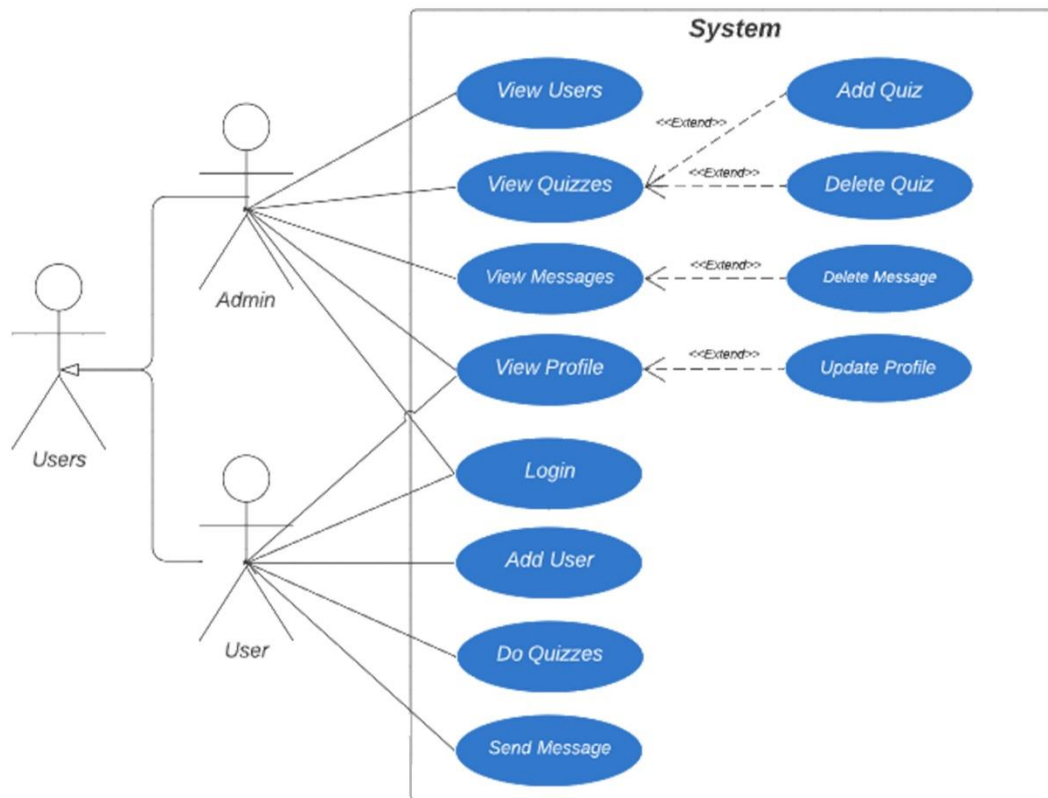
The data and record that are saved shall be reused if needed that is stored in backup.

- **Quality Control:**

This system shall save the time for all users.



+ Use-Case Diagram(s).



Use case: Login.

Initiator: Admin/User

Goal: Login into the application.

Pre-condition: The Admin must write the correct username and the matching password to access the admin frame, The User must write the correct username and the matching password to access the user frame.

Scenario:

Checks if the Admin/User is eligible to get admission in the application.
Provide a form to the Admin/User to get the right data from them.
Check if the Admin/User fills the form correctly.
Save the information of Admin/User and is Signed in.
Log in the application.

Post-condition: The Admin/User will login the application correctly.



Use case: Add User.

Initiator: User.

Goal: Add new user in the app and make changes to Users records.

Pre-condition: The User must be eligible and has the right data(users must fulfill the requirements to get admission).

Scenario:

Check if the user is eligible and has the right data.

Provide a form to the user to get his/her data.

Check if the user fills the form correctly.

Save the information of user and user is added.

Edit the existing information and update any change is made.

Post-condition: The User will be added correctly.

Use case: Add Quiz.

Initiator: Admin

Goal: Add new quiz in the app and make changes to quiz records.

Pre-condition: The Admin logged in the application and made sure that he had the right questions and the right answers.

Scenario:

The admin adds a new quiz, name, tag, and details.

The admin adds the questions.

The admin adds the Choices.

The admin adds the Answers.

Post-condition: The Admin will add the Quiz correctly.



Use case: Delete Quiz.

Initiator: Admin

Goal: Delete quiz in the app and make changes to quiz records.

Pre-condition: The Admin logged in the application and made sure that he had selected the specified quiz that he/she wanted to delete.

Scenario:

- The admin selects a quiz and delete it.

Post-condition: The Admin will delete the Quiz correctly.

Use case: Delete Message.

Initiator: Admin

Goal: Delete message in the app and make changes to message records.

Pre-condition: The Admin logged in the application and made sure that he had selected the specified message that he/she wanted to delete.

Scenario:

- The admin selects a message and delete it.

Post-condition: The Admin will delete the Message correctly.

Use case: Send Message.

Initiator: User.

Goal: send new message in the app and make changes to message records.

Pre-condition: The User logged in the application and made sure that he had selected the specified message that he/she wanted to send.

Scenario:

- The User will send the text message in the application.

Post-condition: The User will send the message correctly.



Use case: Do Quizzes.

Initiator: User.

Goal: Solve the quiz.

Pre-condition: The User must log in the application and view the quizzes sector and selected a quiz.

Scenario:

The User views the quizzes page

The User selects a quiz

The User chose and submitted questions

The User checks the answers of the quiz

Post-condition: The Quiz will be Solved correctly.

Use case: Update.

Initiator: Admin/User.

Goal: Update data in the Profile page.

Pre-condition: The Admin/User must log in the application and hit to the profile page.

Scenario:

The Admin/User must have the right data to be edited

The Admin/User must follow the rules for the right configuration

Post-condition: The Admin/User profile will be updated correctly.



Use case: Login.

Initiator: Admin/User

Goal: Login into the application.

Pre-condition: The Admin must write the correct username and the matching password to access the admin frame, The User must write the correct username and the matching password to access the user frame.

Scenario:

Checks if the Admin/User is eligible to get admission in the application.
Provide a form to the Admin/User to get the right data from them.
Check if the Admin/User fills the form correctly.
Save the information of Admin/User and is Signed in.
Log in the application.

Post-condition: The Admin/User will login the application correctly.

Use case: Add User.

Initiator: User.

Goal: Add new user in the app and make changes to Users records.

Pre-condition: The User must be eligible and has the right data(users must fulfill the requirements to get admission).

Scenario:

Check if the user is eligible and has the right data.
Provide a form to the user to get his/her data.
Check if the user fills the form correctly.
Save the information of user and user is added.
Edit the existing information and update any change is made.

Post-condition: The User will be added correctly.



Use case: Add Quiz.

Initiator: Admin

Goal: Add new quiz in the app and make changes to quiz records.

Pre-condition: The Admin logged in the application and made sure that he had the right questions and the right answers.

Scenario:

The admin adds a new quiz, name, tag, and details.

The admin adds the questions.

The admin adds the Choices.

The admin adds the Answers.

Post-condition: The Admin will add the Quiz correctly.

Use case: Delete Quiz.

Initiator: Admin

Goal: Delete quiz in the app and make changes to quiz records.

Pre-condition: The Admin logged in the application and made sure that he had selected the specified quiz that he/she wanted to delete.

Scenario:

- The admin selects a quiz and delete it.

Post-condition: The Admin will delete the Quiz correctly.



Use case: Delete Message.

Initiator: Admin

Goal: Delete message in the app and make changes to message records.

Pre-condition: The Admin logged in the application and made sure that he had selected the specified message that he/she wanted to delete.

Scenario:

- The admin selects a message and delete it.

Post-condition: The Admin will delete the Message correctly.

Use case: Send Message.

Initiator: User.

Goal: send new message in the app and make changes to message records.

Pre-condition: The User logged in the application and made sure that he had selected the specified message that he/she wanted to send.

Scenario:

- The User will send the text message in the application.

Post-condition: The User will send the message correctly.



Use case: Do Quizzes.

Initiator: User.

Goal: Solve the quiz.

Pre-condition: The User must log in the application and view the quizzes sector and selected a quiz.

Scenario:

The User views the quizzes page

The User selects a quiz

The User chose and submitted questions

The User checks the answers of the quiz

Post-condition: The Quiz will be Solved correctly.

Use case: Update.

Initiator: Admin/User.

Goal: Update data in the Profile page.

Pre-condition: The Admin/User must log in the application and hit to the profile page.

Scenario:

The Admin/User must have the right data to be edited

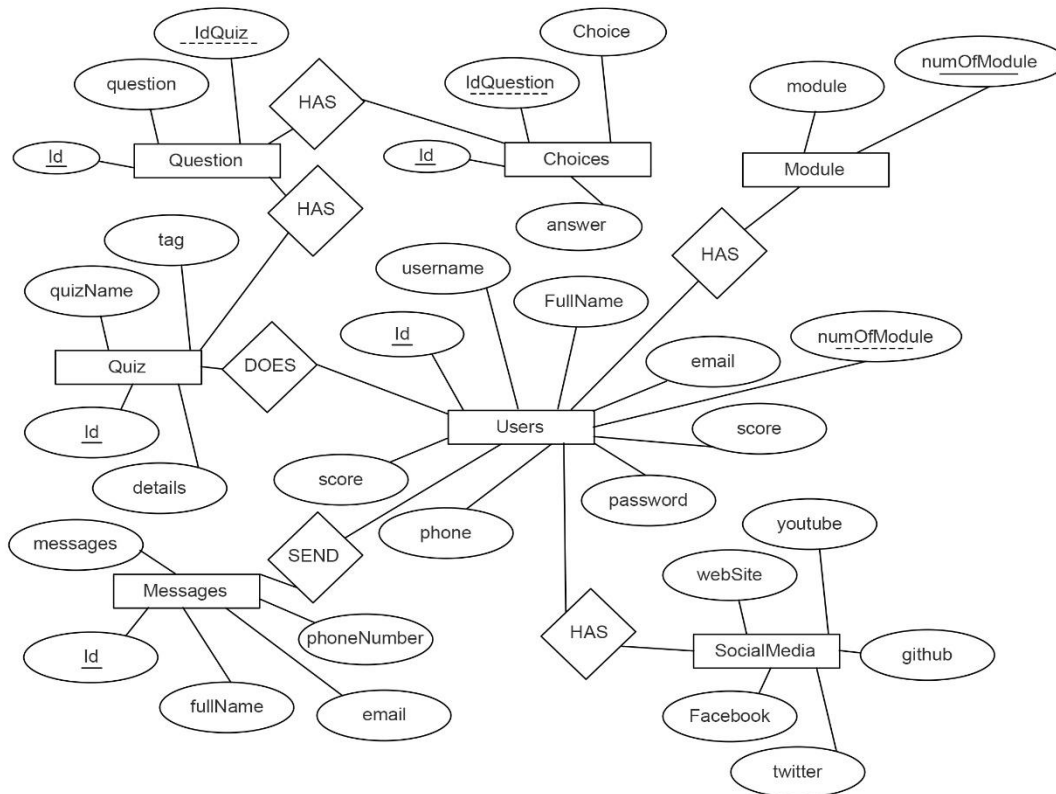
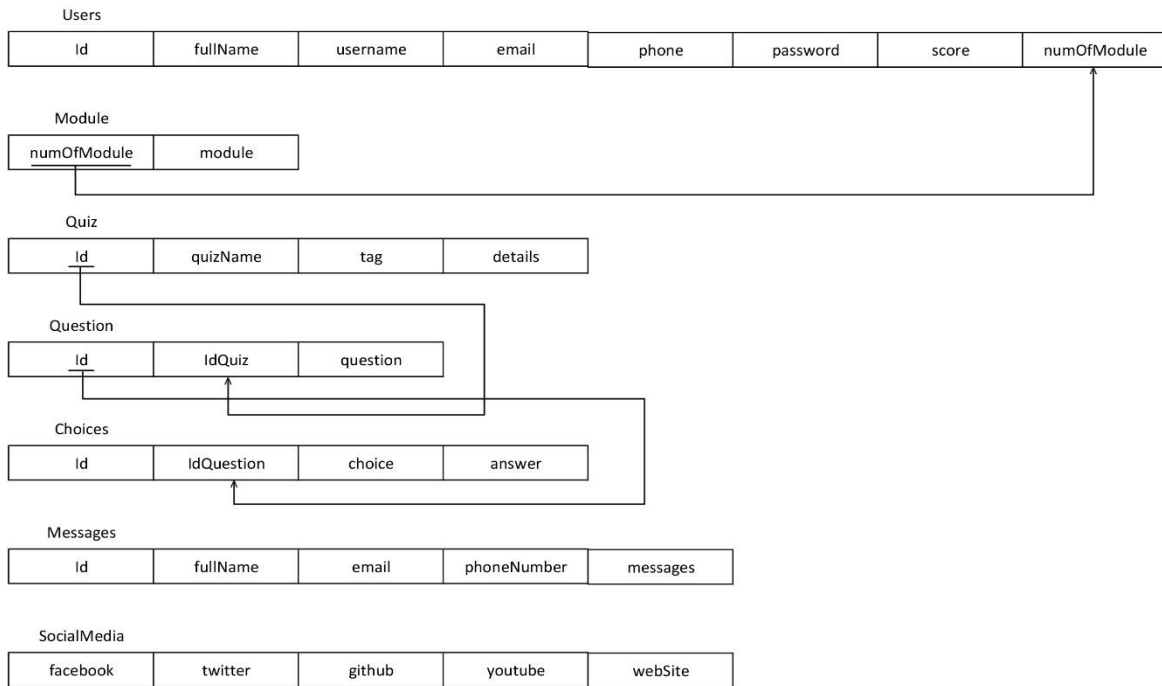
The Admin/User must follow the rules for the right configuration

Post-condition: The Admin/User profile will be updated correctly.



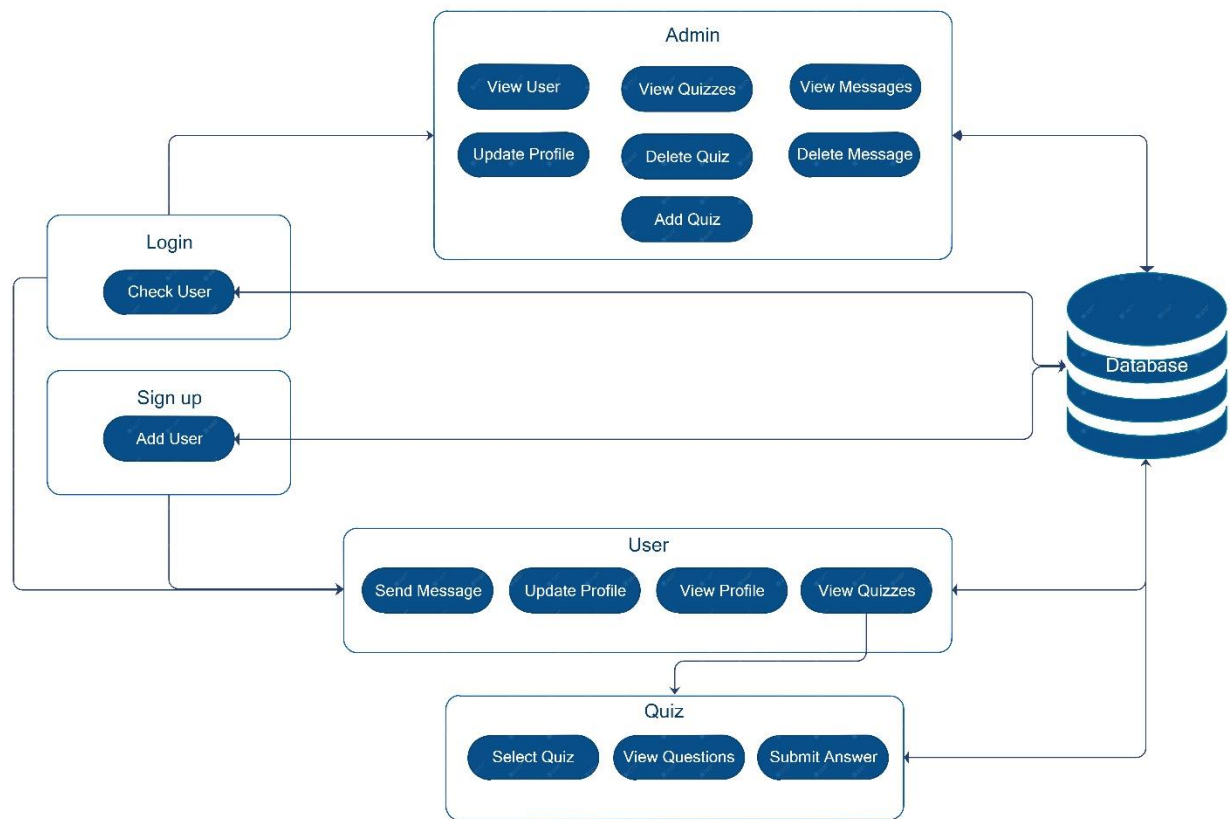


Database Specification (ERD, Tables).



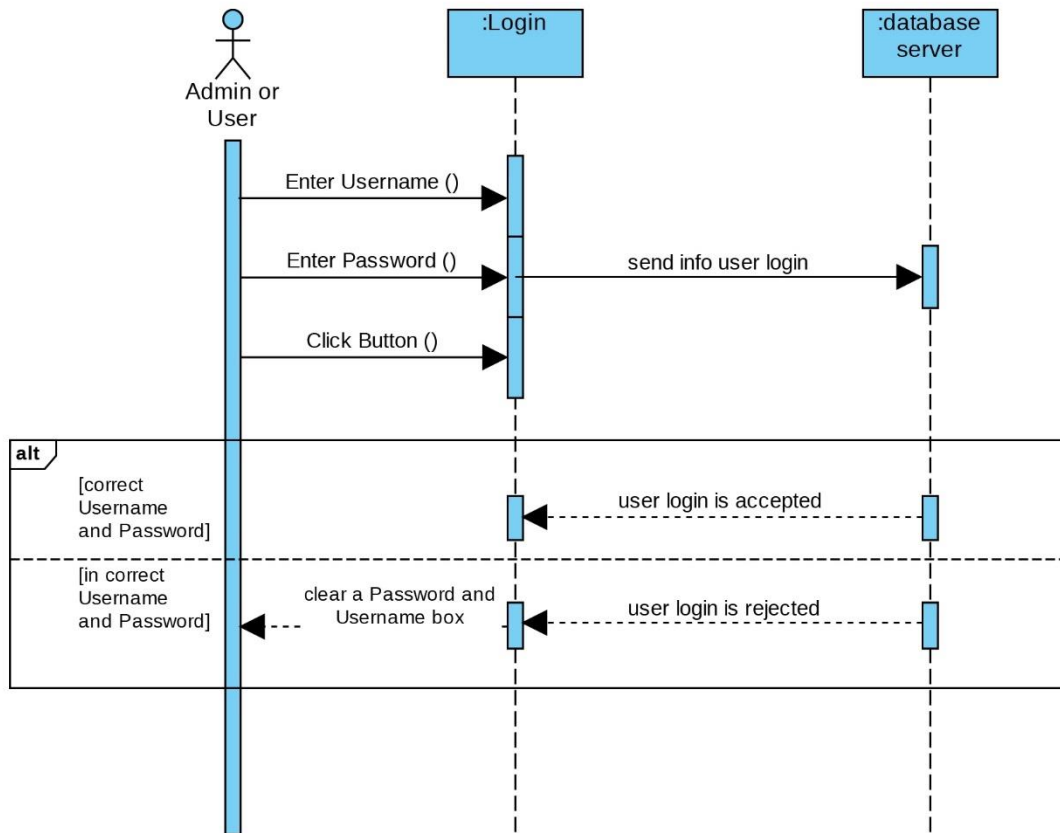


System Architecture.

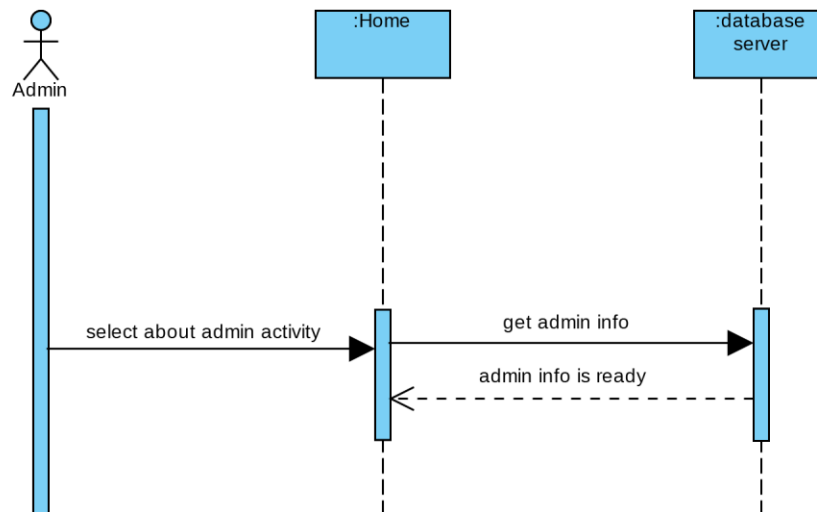




+ Sequence Diagram(s).

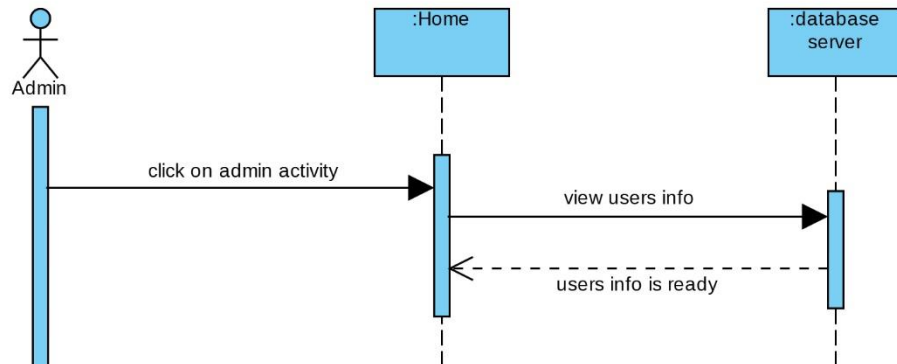


If he/she is Admin:

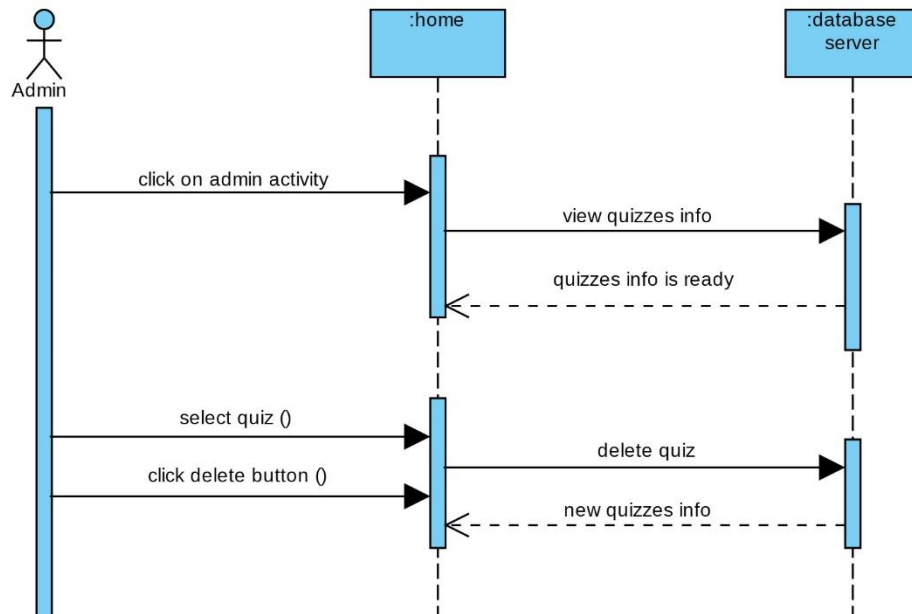




Case 1: View Users.

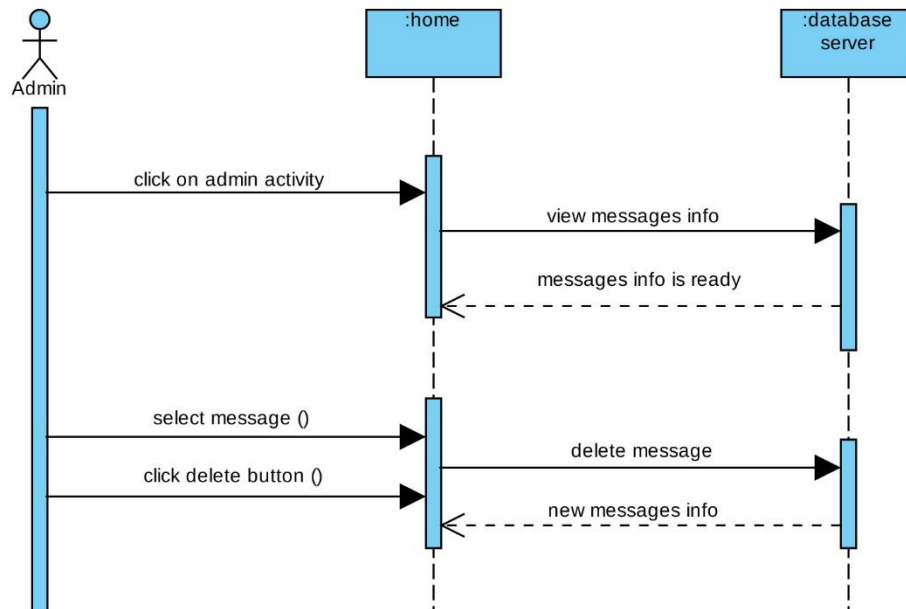


Case 2: View Quizzes.

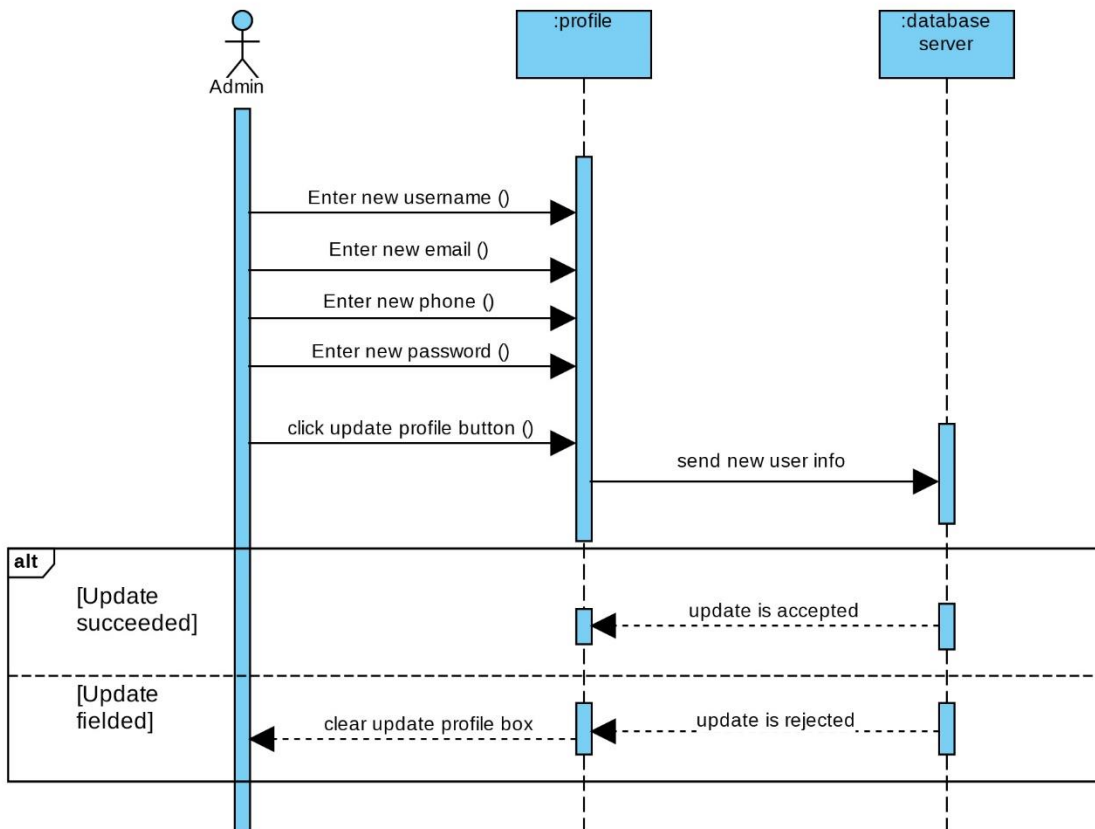




Case 3: View Messages.

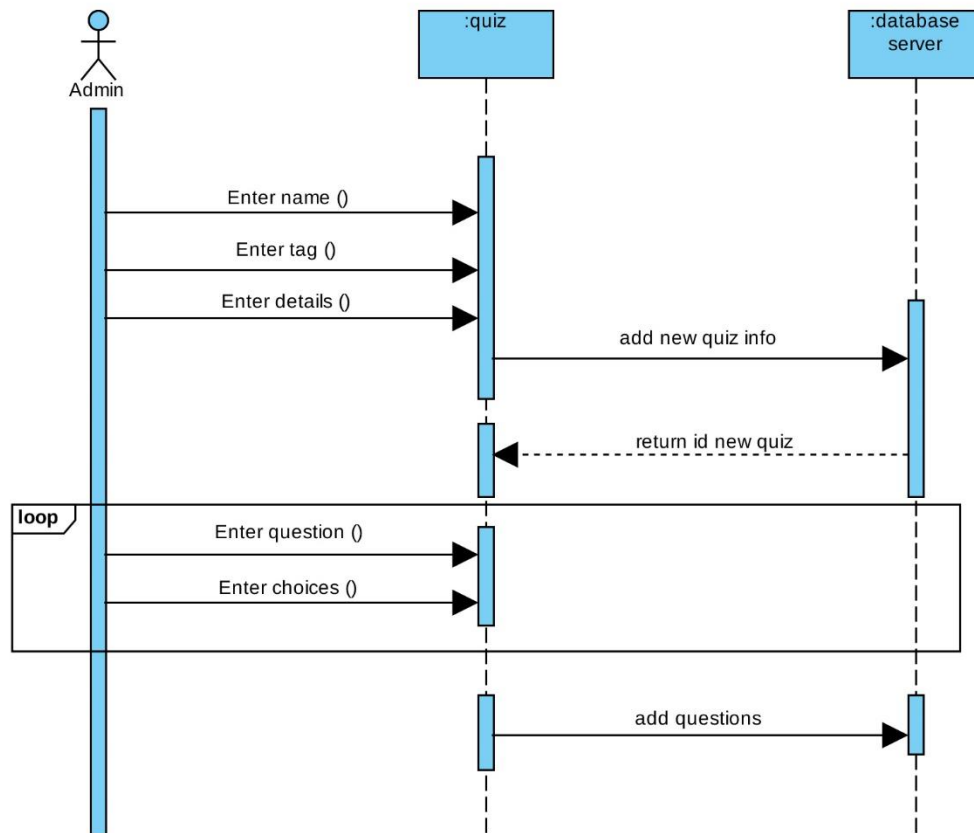


Case 4: Update Profile.



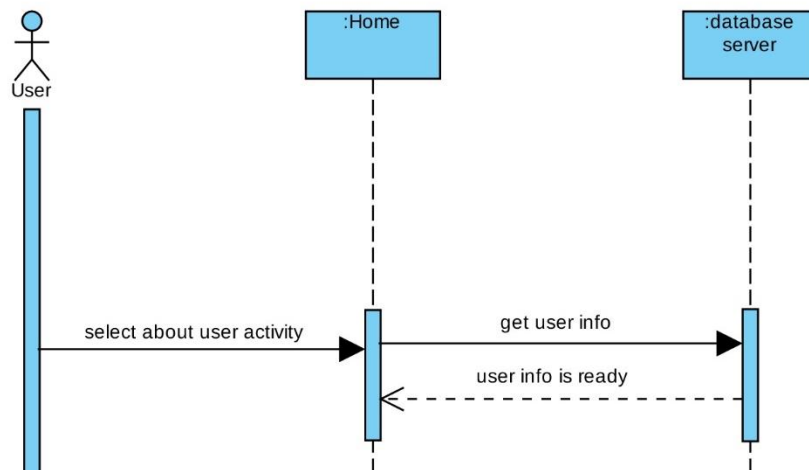


Case 4: Add Quiz.

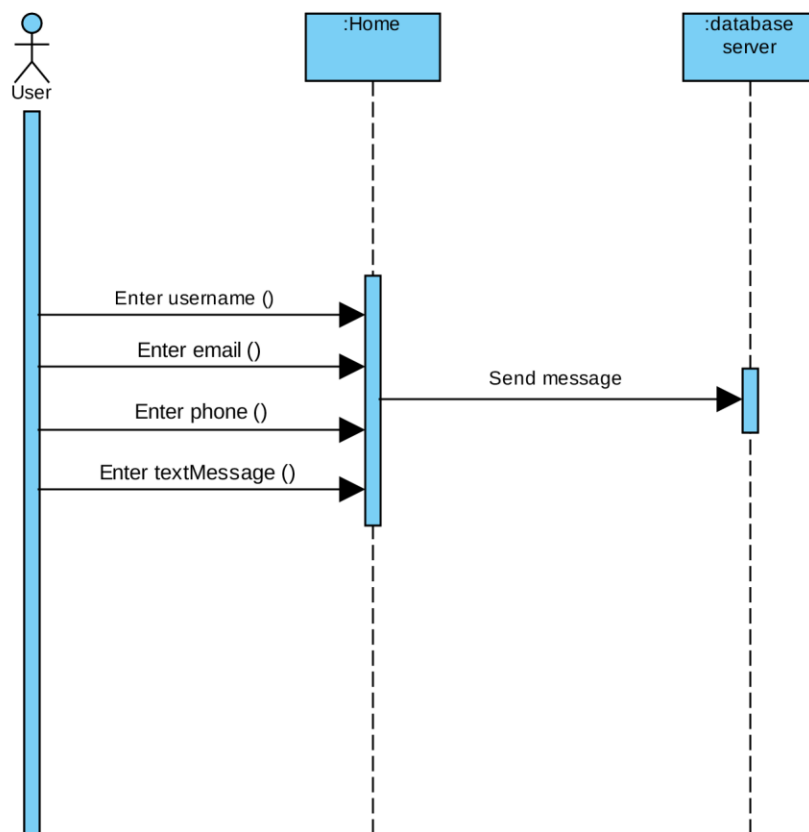




If he/she is User:

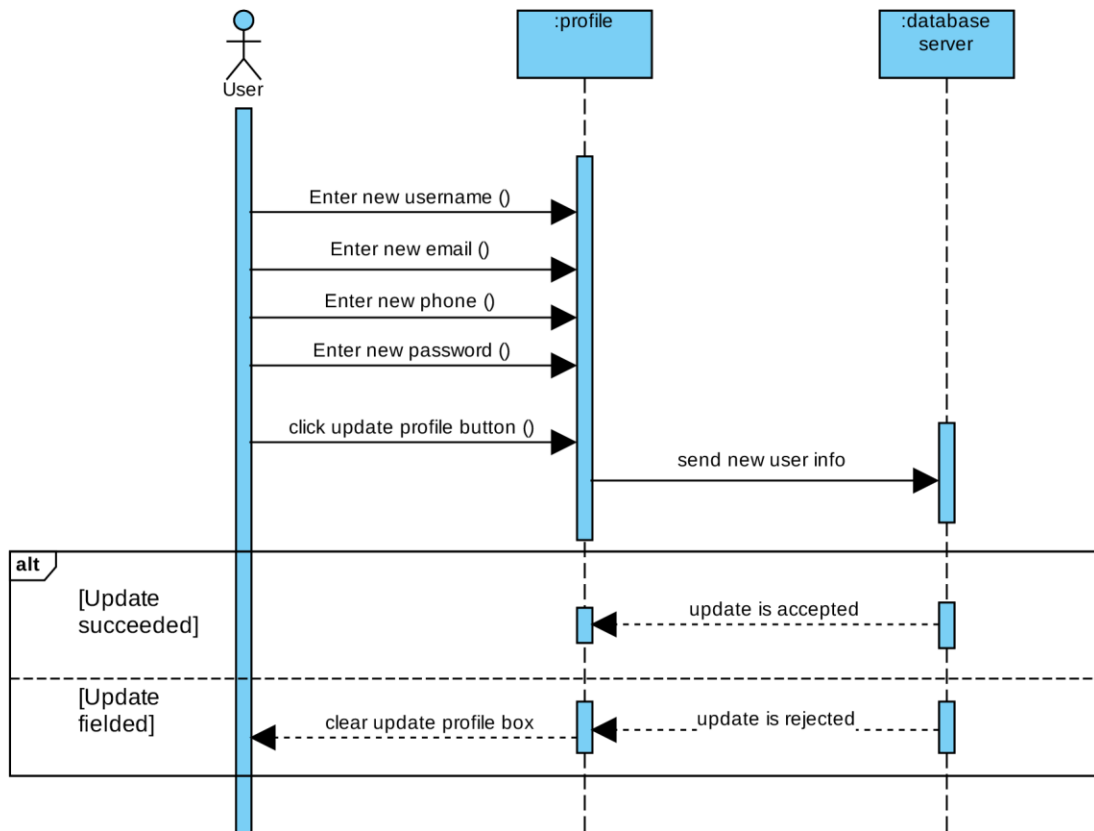


Case 1: Send Messages.



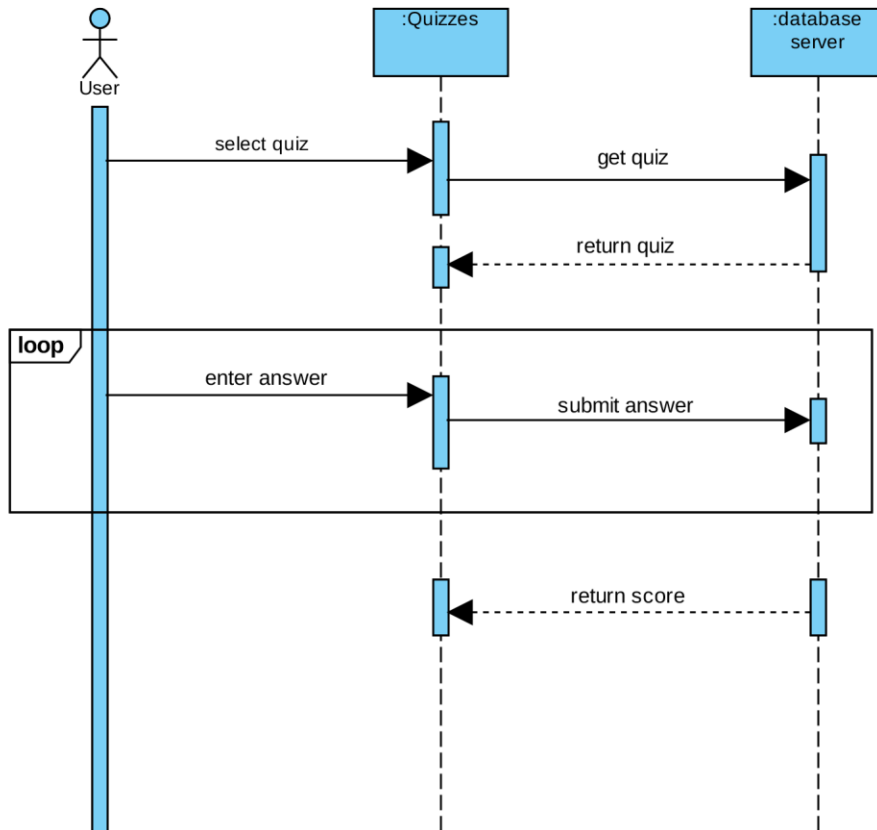


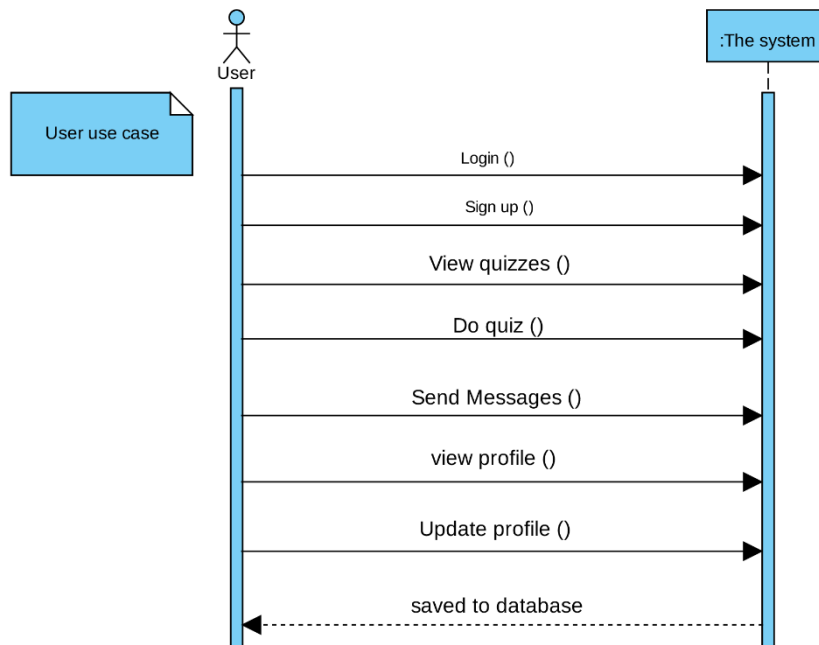
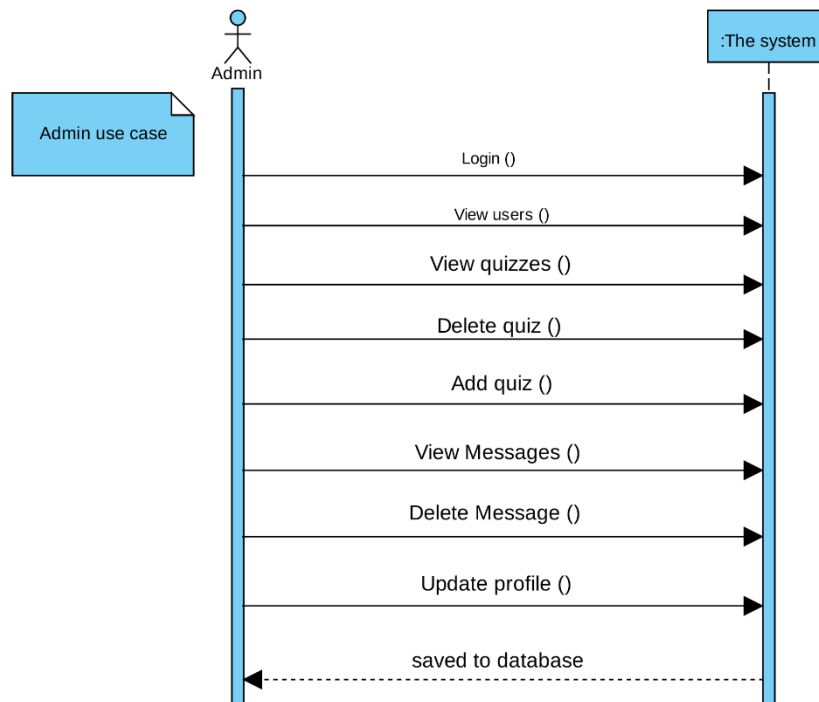
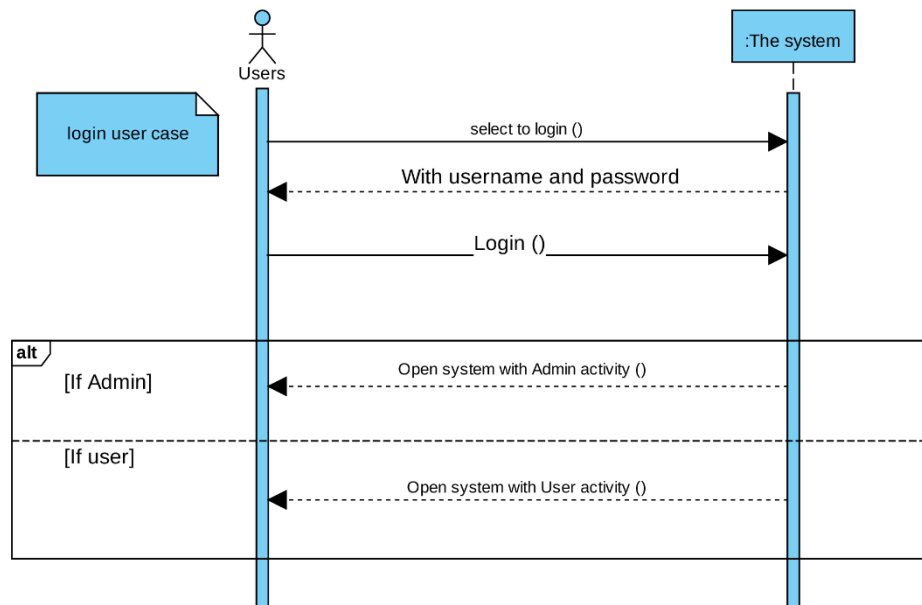
Case 2: Update Profile.





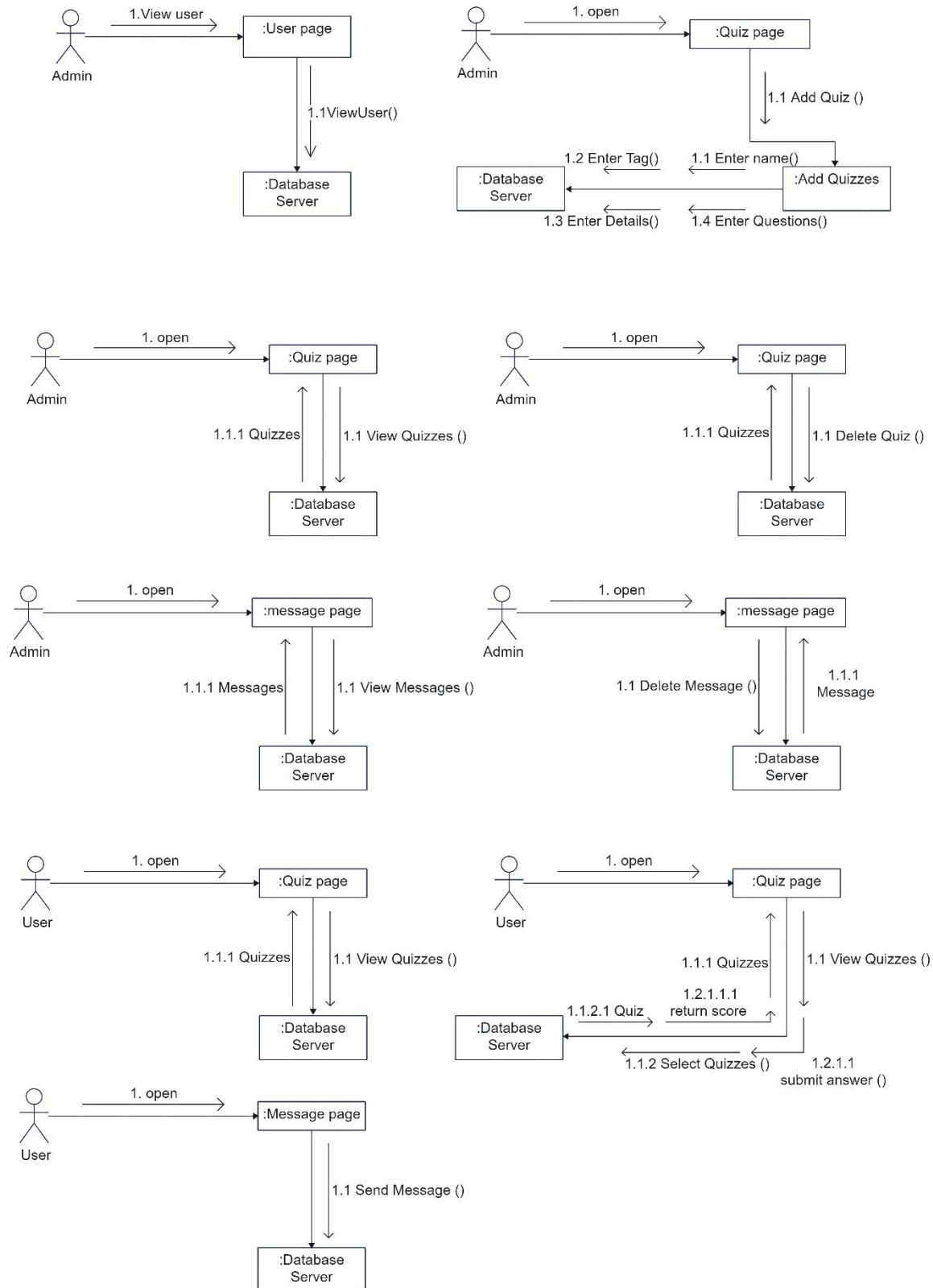
Case 3: Do Quiz.





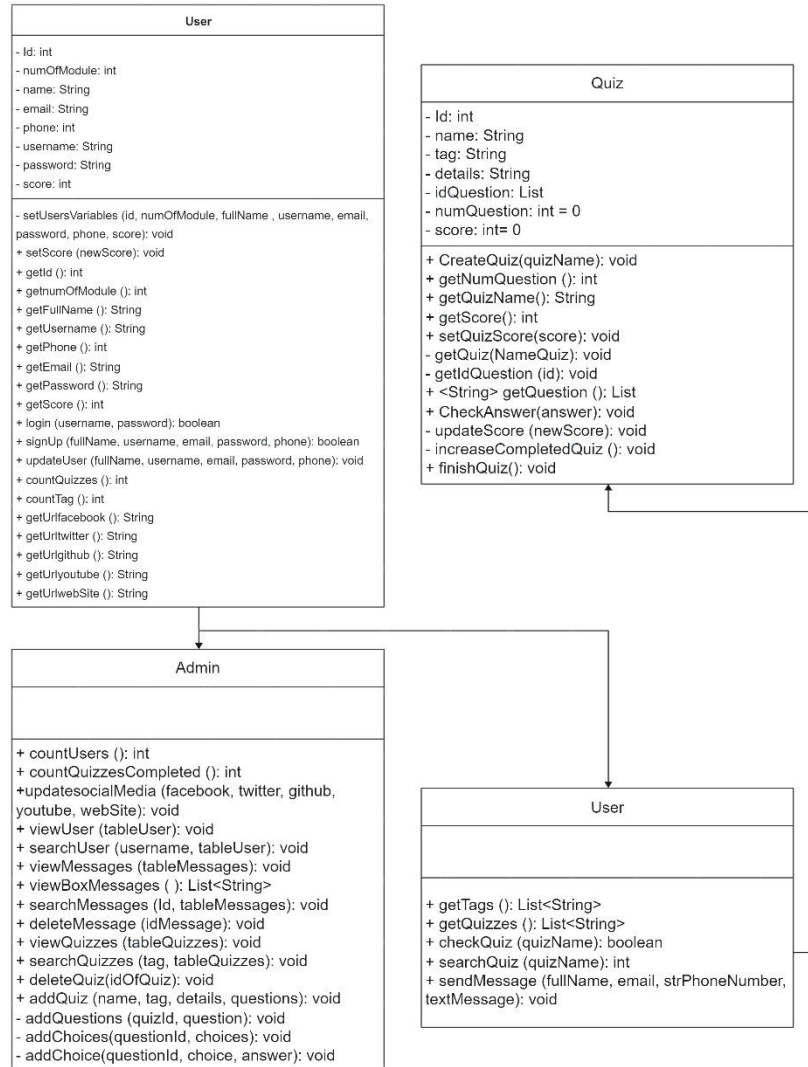


Collaboration/Communication Diagram(s).

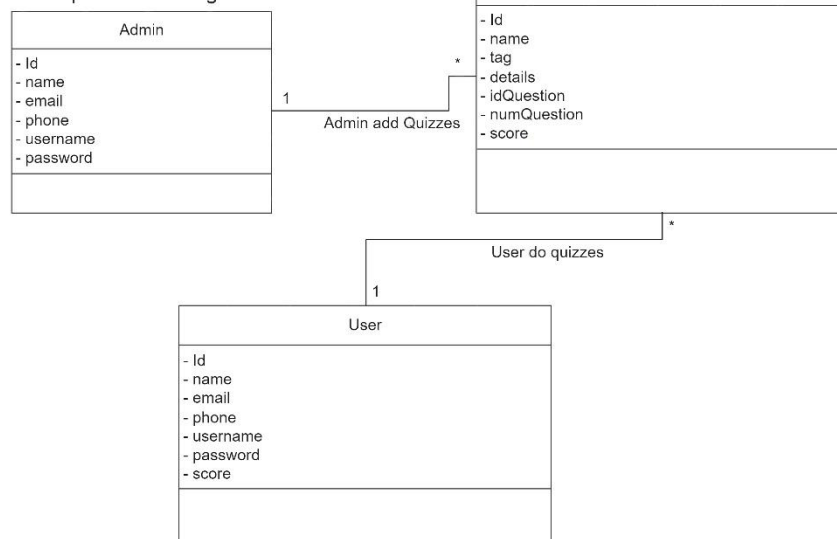




Class Diagram .

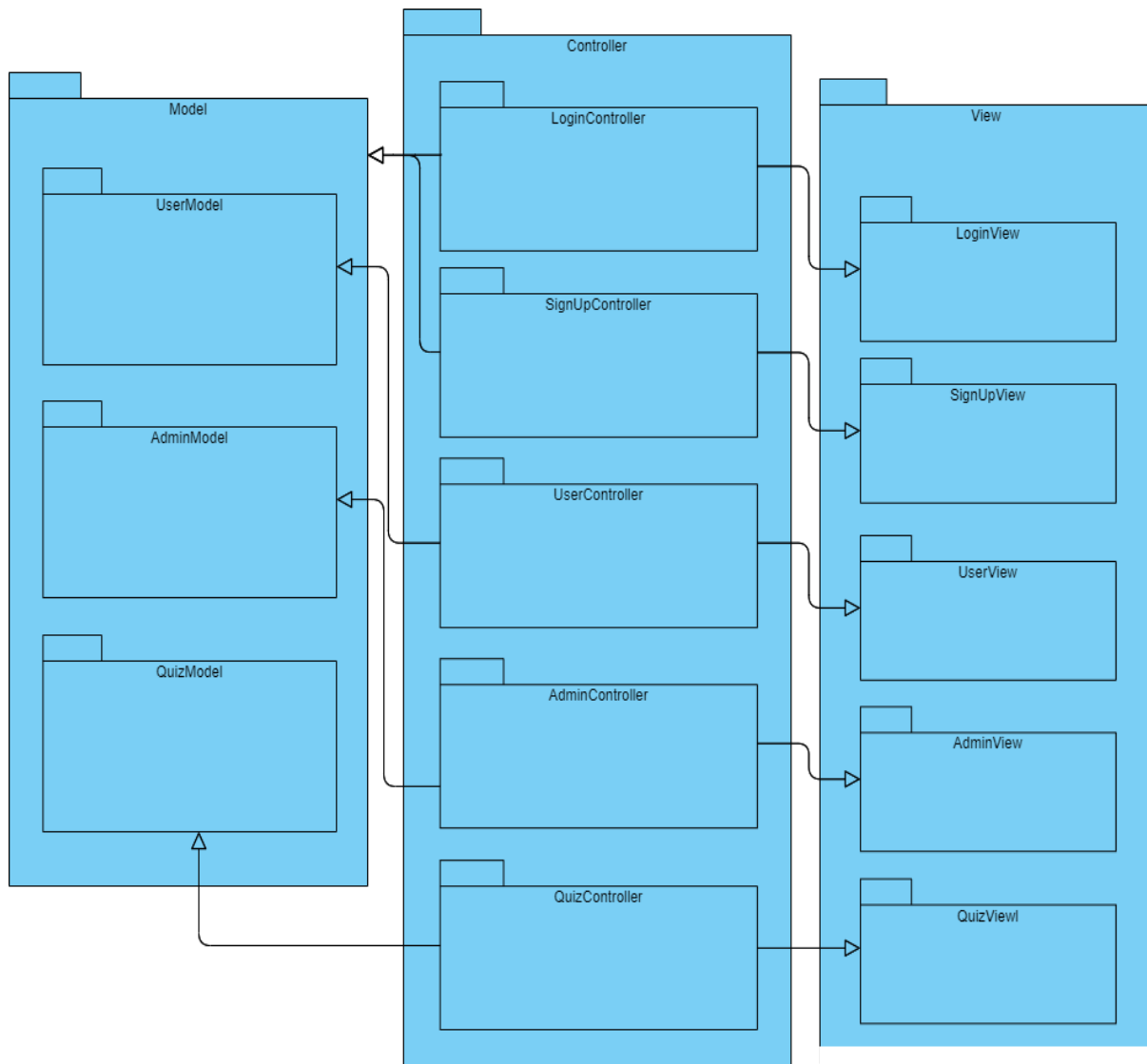


- Conceptual class diagram.





+ Package Diagram(s).



+ Design Pattern.

