

**DPPL-xx**

## **SOFTWARE DESIGN DOCUMENT**

**QnAI**

for:

AI Laboratory - Telkom University

Prepared by:

Rizqi Khoir (1301194266)

Hajarot Najiha (1301194259)

Pernanda Arya Bhagaskara S. M. (1301190184)

Rifaldy Bintang Ramadhan (1301194247)

Informatics Major

Informatics Faculty

Jl. Telekomunikasi 1, Dayeuhkolot, Bandung

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		Revision	<revision number>

## LIST OF CHANGES

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<b>A</b>	
<b>B</b>	
<b>C</b>	
<b>D</b>	
<b>E</b>	
<b>F</b>	
<b>G</b>	

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Written by								
Review by								
Approve d by								



## List of Changes

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# **1. Introductory**

## **1.1 Document Purpose**

The purpose of this document is to present a detailed description of the Web Application QnAI (Question and Answer Artificial Intelligence). It will explain the purpose and features of the QnAI, the interfaces of the system, what the system will do, the constraints under which it must operate, and how the system will react to external stimuli. This document is intended for both the stakeholders and the developers of the system and will be proposed to all members of the AI Laboratory and society that want to know about AI.

This document is used by software system developers and other interested members. We hope that by making this DPPL document you can ensure that all the features described in the Software Requirements Specification (SKPL) document have been implemented properly.

## **1.2 Problem Scope**

This application will be a web-based application and this app will belong to Artificial Intelligence of Telkom University and AI enthusiasts. It is designed to be a forum that will be used for AI Lab and AI enthusiasts to share information about AI tech. We hope this app will help students in the AI lab of Telkom university find resources, study cases, datasets, and information about Artificial intelligence. The complete information about the app will be in 2. Overall description.

## **1.3 Definition and Term**

<b>NO</b>	<b>Terms, Acronyms, and Abbreviations</b>	<b>Explanation</b>
1	SDD	Software Design Description is a representation of a software design used to record and communicate the software design to stakeholders.
2	SRS	A Software Requirements Specification is a document that describes what the software will do and how it will be expected to perform. It also describes the functionality of the product
3	DBMS	Database Management System is a data keeping system that will be used in the designed software.
4	Web Browser	A software to enter the world wide web and can be used to access websites.

## **1.4 Reference**

1. IEEE  
IEEE Std 830–1998 IEEE Recommended Practice for Software Requirements Specifications. IEEE Computer Society, 1998.

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2. Medium  
[vincetran-28429.medium.com/software-requirements-specification-srs-docume nt-fd9ab103b18#\\_Toc77487651](http://vincetran-28429.medium.com/software-requirements-specification-srs-document-fd9ab103b18#_Toc77487651)
3. krazytech  
<https://krazytech.com/projects/sample-software-requirements-specificationsrs-report-airline-database>
4. Requirement Engineering Box  
[http://isq.inesc-id.pt/REBox/WiegersTemplate@17.aspx?page=4ExternalInterfaceRequirements#:~:text=According%20to%20Richard%20Thayer%20\(2002,communicate%20properly%20with%20external%20components.](http://isq.inesc-id.pt/REBox/WiegersTemplate@17.aspx?page=4ExternalInterfaceRequirements#:~:text=According%20to%20Richard%20Thayer%20(2002,communicate%20properly%20with%20external%20components.)
5. SKPL:[https://docs.google.com/document/d/169sAwjSBEIPqcDXDoOG\\_qiP5e6KYd4Fvlx4ES\\_RbM90/edit?usp=sharing](https://docs.google.com/document/d/169sAwjSBEIPqcDXDoOG_qiP5e6KYd4Fvlx4ES_RbM90/edit?usp=sharing)

## **1.5 Systematic Discussion**

This document contains all descriptions related to QnAI software development. The sections in this document consist of:

1. Chapter 1 contains the purpose of writing and designing DPPL, problem scope, the definition of the terms, acronyms, or abbreviations, as well as the references used to create DPPL.
2. Chapter 2 contains a global design description consisting of architectural descriptions, component descriptions, and implementation environment design.
3. Chapter 3 contains a detailed design of the software consisting of the realization of use cases, user interfaces, and others.

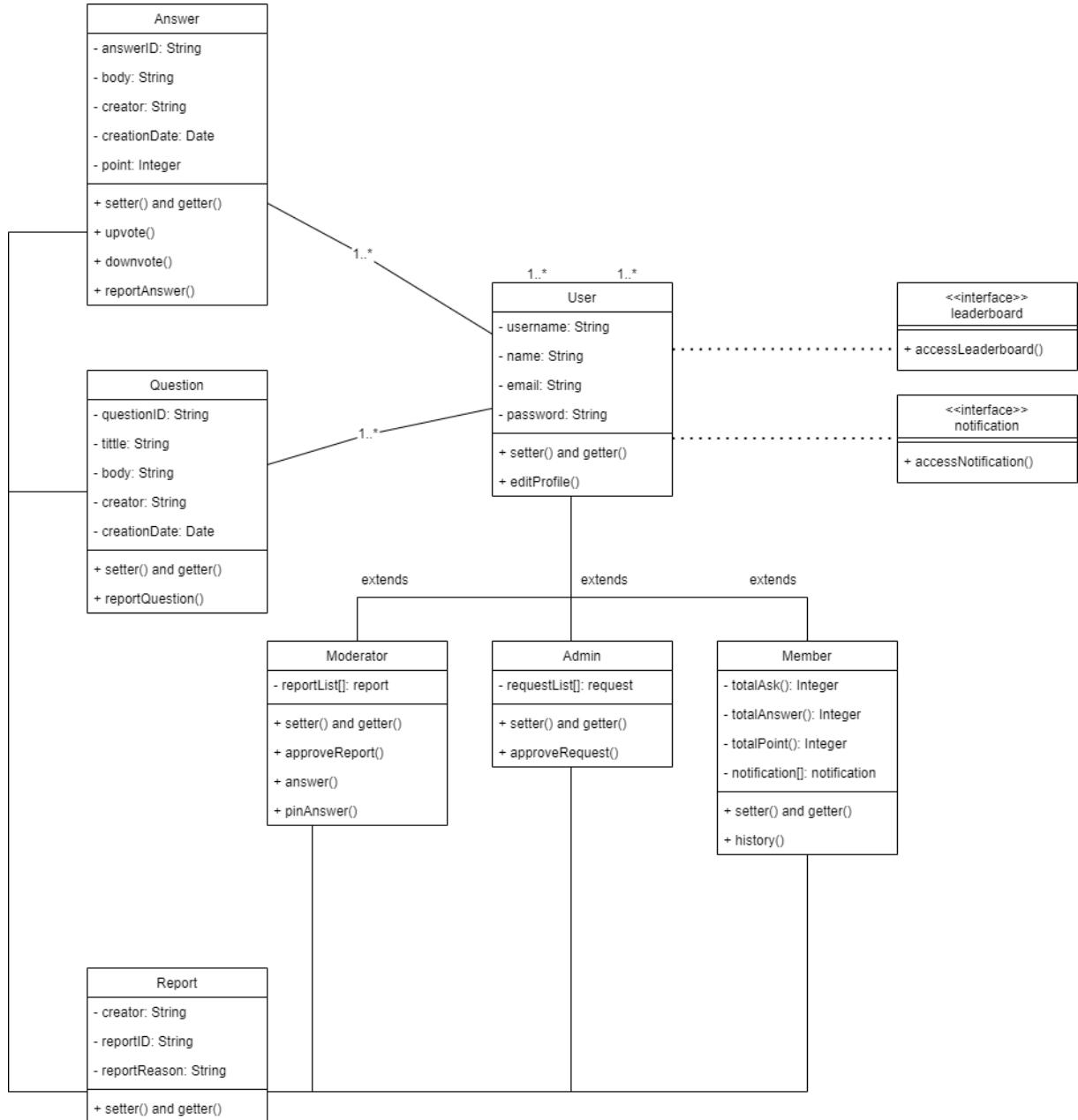
## **2 Global Planning Description**

### **2.1 Implementation Environment Design**

The software is designed and coded through Windows and Linux as its operation system, coded in javascript and HTML. The database will be created in MySql, while the user interface design will use Figma, Laravel, and PHP. The platform will be tested on the newest web browser such as Chrome, Edge, Firefox, and Safari.

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## 2.2 Architectural Description



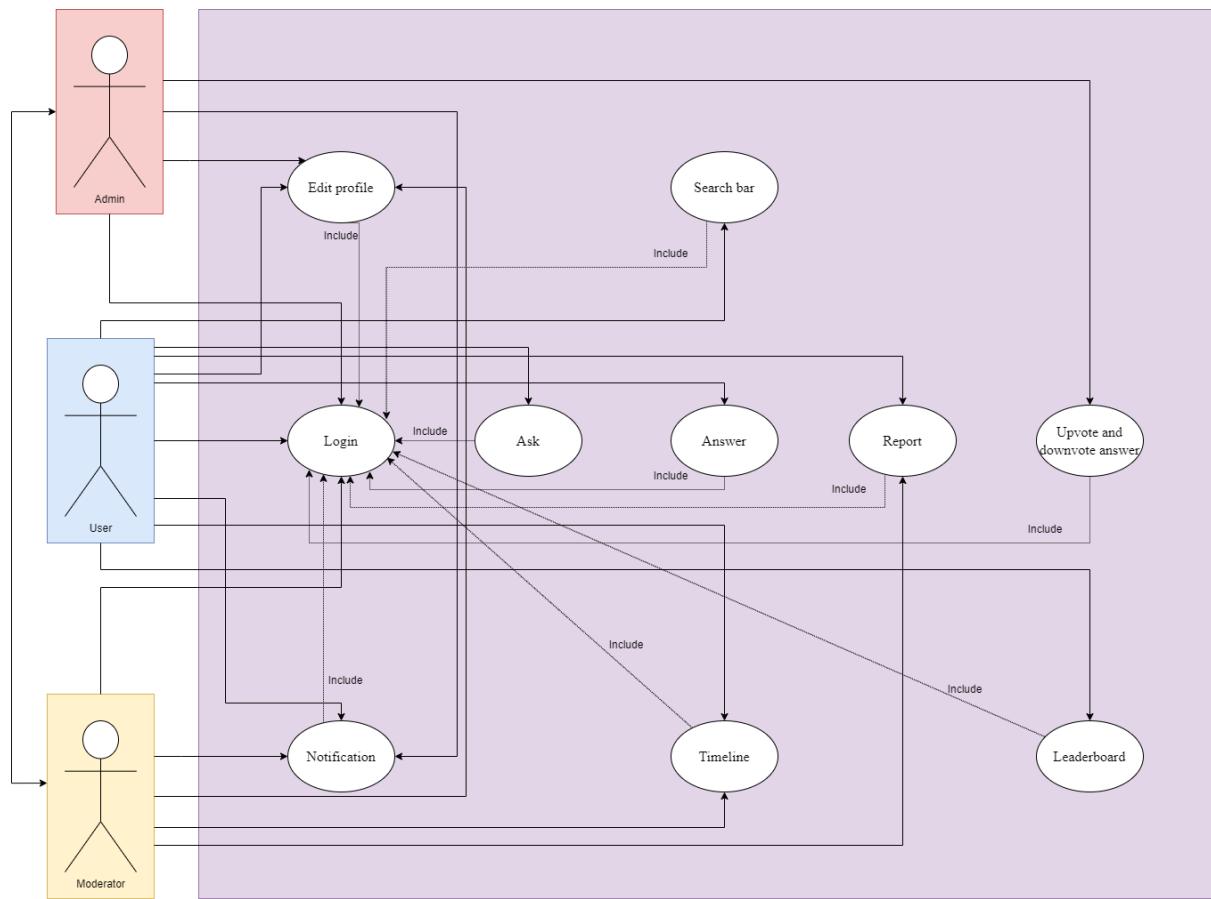
## 2.3 Component Description

No	Component Name	Detailed
1	User	User will be able to have username, name, string, email, and password. The edit profile function will be available also to three other classes that extends from it.
2	Member	Member is the most basic type. It will have totalAsk for the total number of questions they have created, totalAnswer for the total number of answers they have

		created, totalPoint for the sum of upvote-downvote on all their answers, and list of notifications. The function history will show the past created questions and answers by the member.
3	Moderator	Moderator is an upgraded version of user, in which they will have approveReport. It is where they can approve a reported questions and answers. If they approve it, the questions and answers will be deleted. They also able to pin an answer from a question.
4	Admin	Admin have the permission to approve whether a member can be a moderator and whether a member or moderator can be banned.
5	Leaderboard	Leaderboard will show the top three user based on their points.
6	Answer	Answer contain ID, body, creator, creation date, and points. It can be reported and it can be voted, up or down.
7	Question	Question contain ID, title, body, creator, and creation date. It can be reported.
8	Report	Report contains the reason why a member or moderator choose to report an answer or a question. It contains creator, ID, and report reasons.

### 3 Design

#### 3.1 Use Case Realization



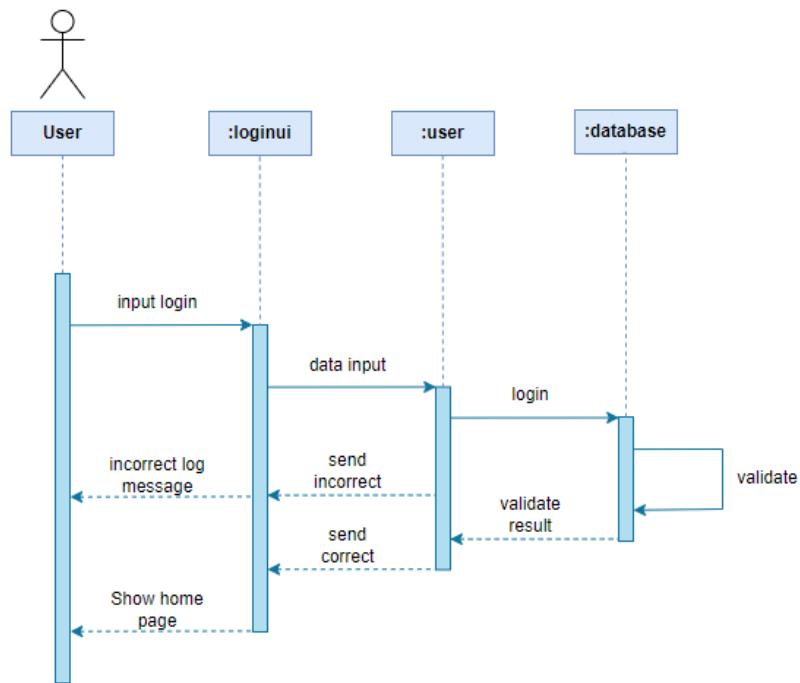
##### 3.1.1 Login Use Case

This login feature will appear when a new user opens the application for the first time, this feature is on the login page before the user can access all the features on the application. If the user is a moderator or admin, after they log in they will automatically be on moderator or admin mode.

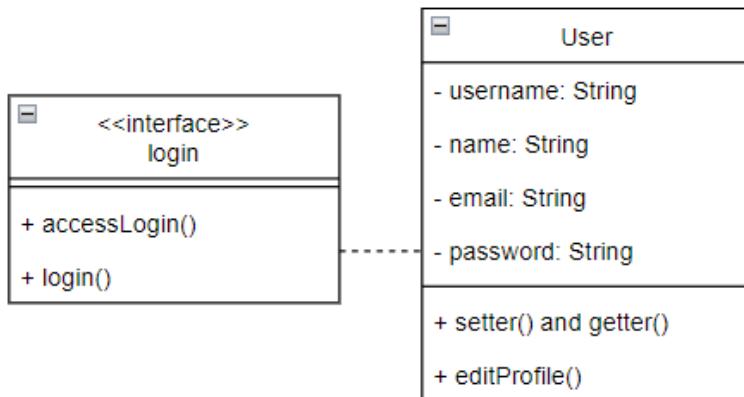
###### 3.1.1.1 Class

No	Class Name Design	Class Type
1	User	Entity
2	Moderator	Entity
3	Admin	Entity

### 3.1.1.2 Sequence Diagram



### 3.1.1.3 Class Diagram



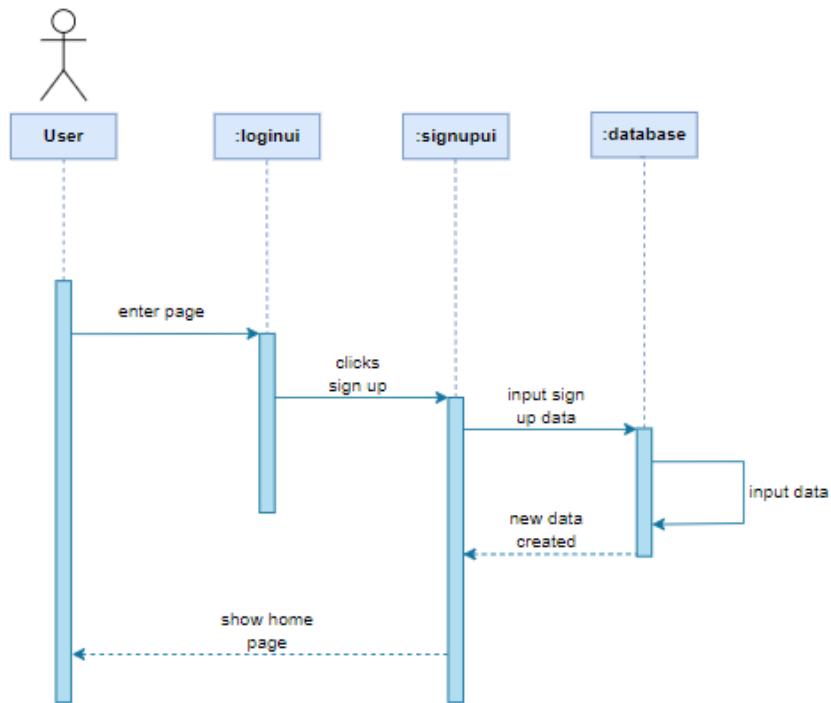
### 3.1.2 Sign Up Use Case

This sign feature will appear when a new user clicks on the signup button on the login page, this feature is on the login page before the user can access all the features on the application. They will automatically count as users.

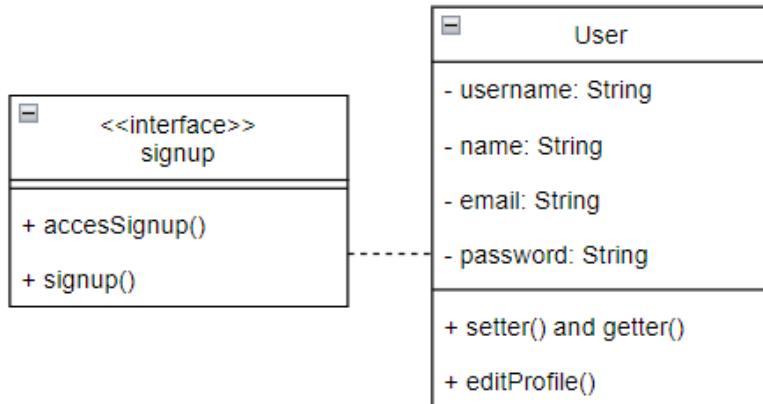
#### 3.1.2.1 Class

No	Class Name Design	Class Type
1	User	Entity
2	Moderator	Entity
3	Admin	Entity

### 3.1.2.2 Sequence Diagram



### 3.1.2.3 Class Diagram



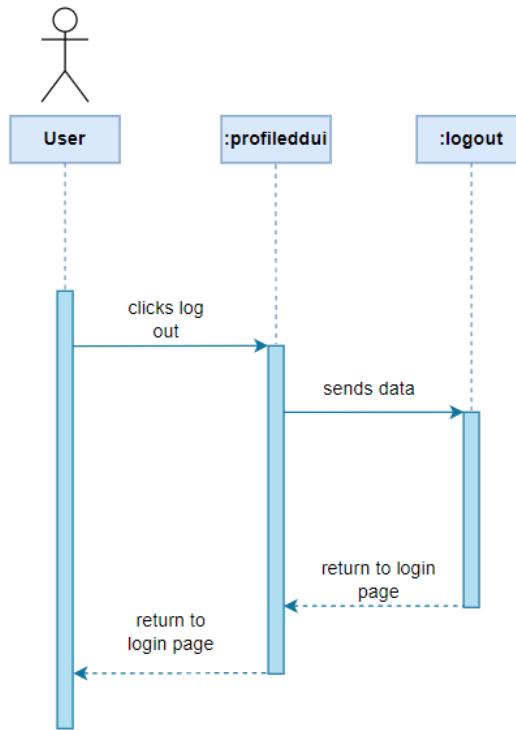
### 3.1.3 Log Out Use Case

This feature appears on the profile drop-down, which allows the user, moderator, or admin to log out from their account.

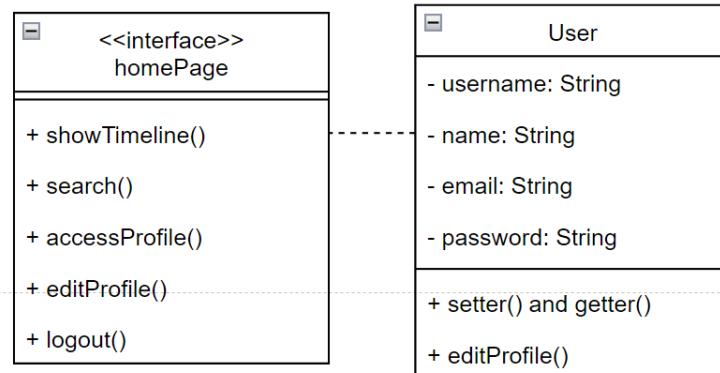
#### 3.1.3.1 Class

No	Class Name Design	Class Type
1	User	Entity
2	Moderator	Entity

### 3.1.3.2 Sequence Diagram



### 3.1.3.3 Class Diagram



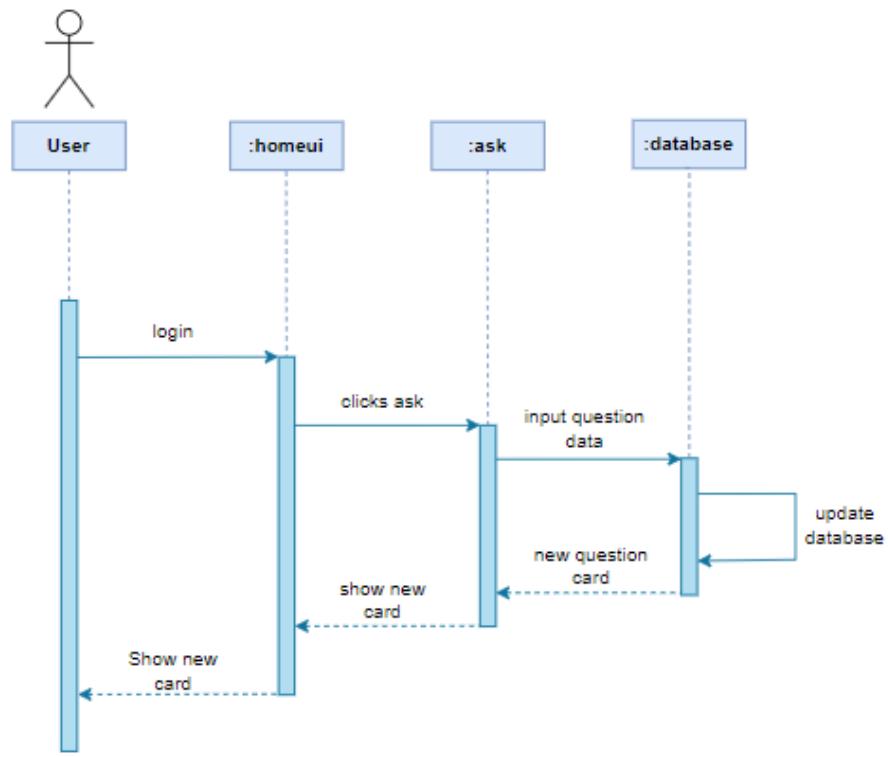
### 3.1.4 Ask Use Case

Users may use this feature to ask a question that will appear on the home page later.

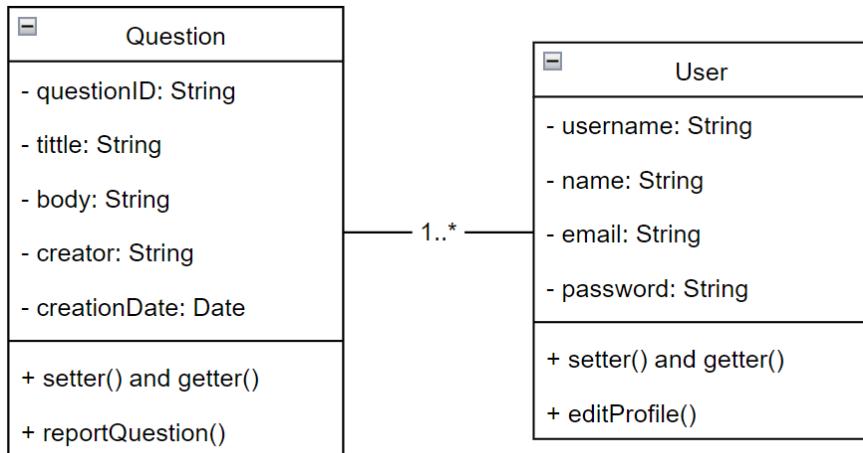
#### 3.1.4.1 Class

No	Class Name Design	Class Type *Class
1	User	Entity
3	Question	Controller

### 3.1.4.2 Sequence Diagram



### 3.1.4.3 Class Diagram



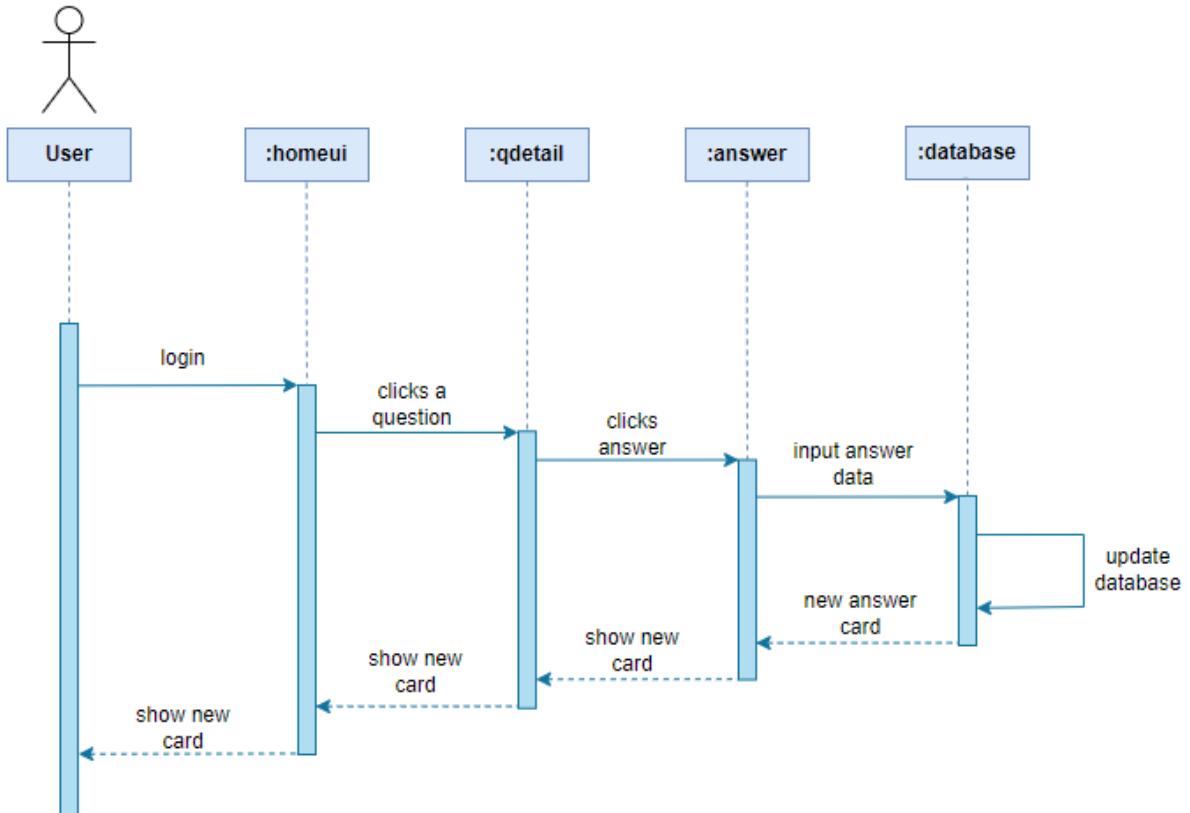
### 3.1.5 Answer Use Case

Users may use this feature to answer a question given on the timeline. They can answer by text.

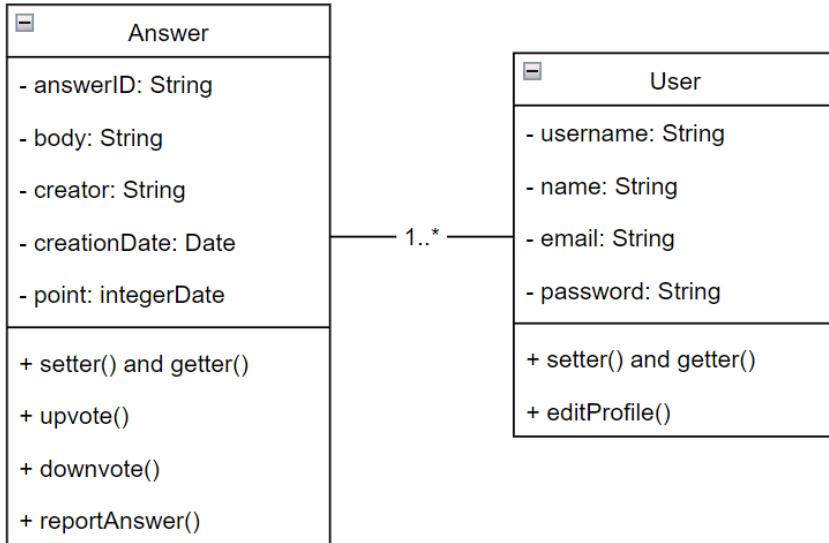
### 3.1.5.1 Class

No	Class Name Design	Class Type *Class
1	User	Entity
3	Answer	Controller

### 3.1.5.2 Sequence Diagram



### 3.1.5.3 Class Diagram



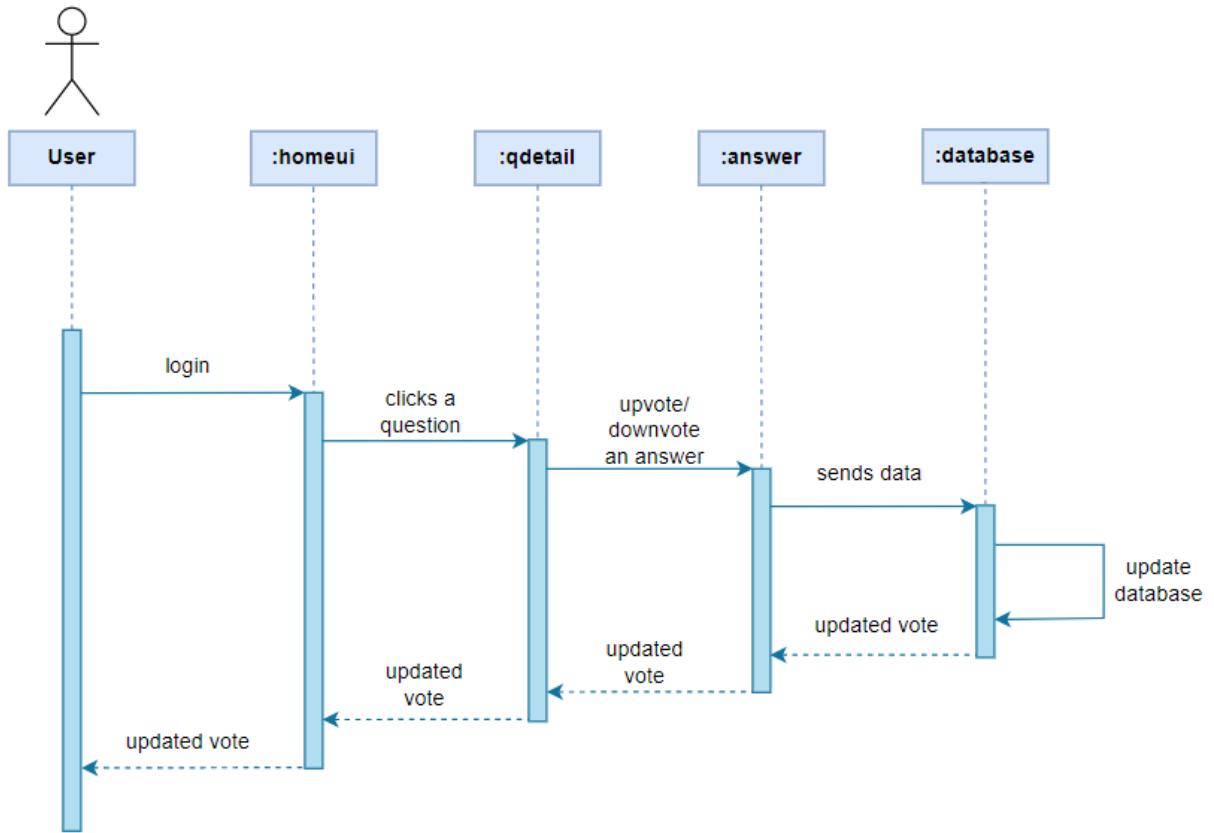
### 3.1.6 Upvote or Downvote Use Case

This feature lets users upvote or downvote an answer. An answer with the biggest score (upvote - downvote) will appear first. Users can only choose one, whether to upvote or downvote an answer.

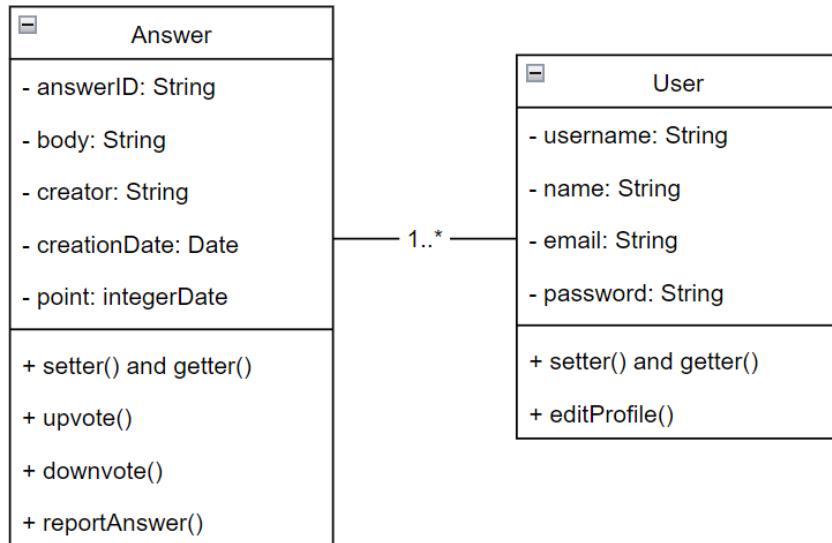
#### 3.1.6.1 Class

No	Class Name Design	Class Type *Class
1	User	Entity
2	Answer	Controller

### 3.1.6.2 Sequence Diagram



### 3.1.6.3 Class Diagram



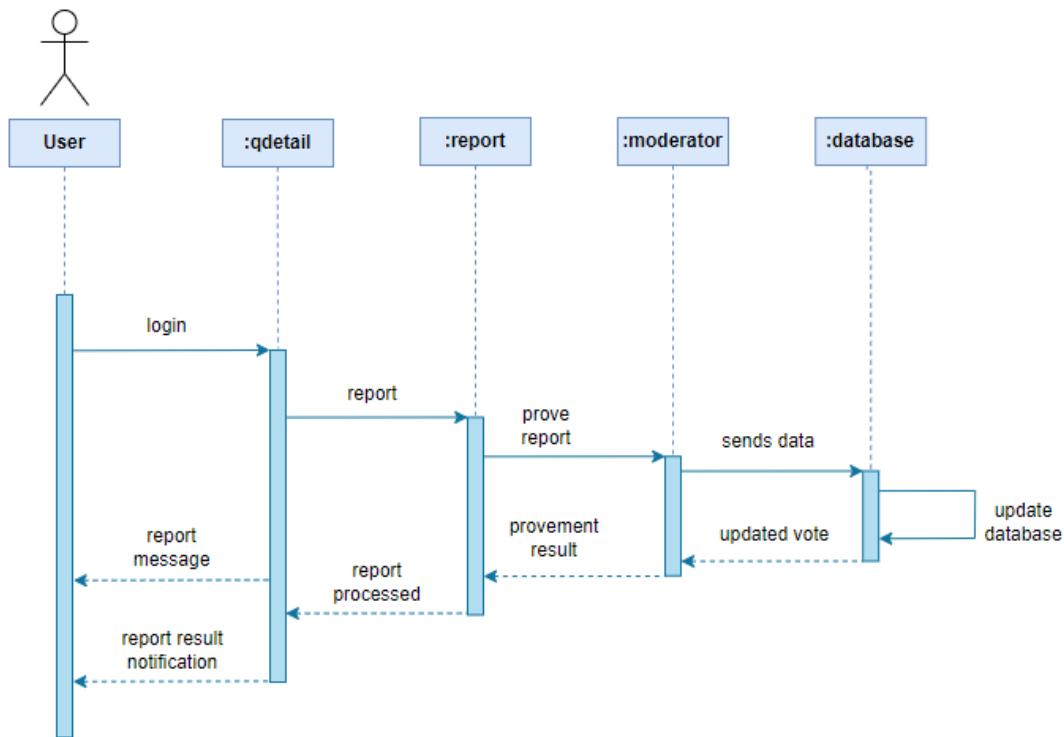
### 3.1.7 Report Use Case

This feature is used to report a question or answer that doesn't relate to artificial intelligence or contains harmful words.

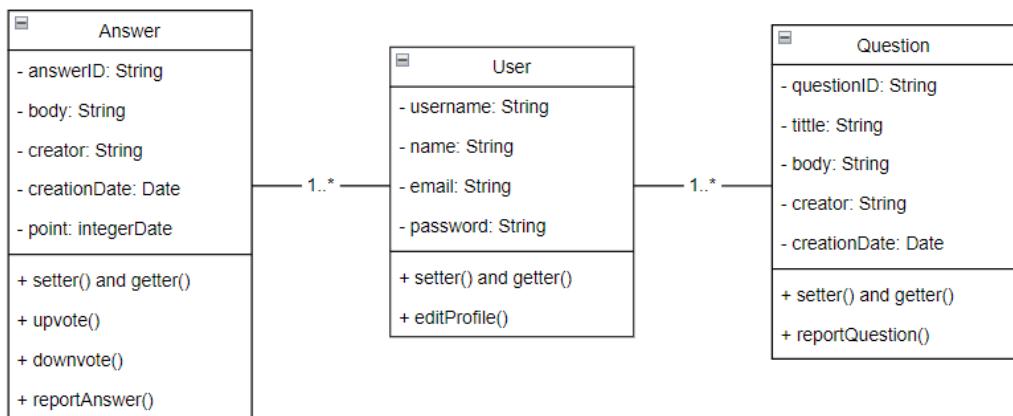
### 3.1.7.1 Class

No	Class Name Design	Class Type *Class
1	User	Entity
2	Moderator	Entity
3	Question	Entity
4	Answer	Entity

### 3.1.7.2 Sequence Diagram



### 3.1.7.3 Class Diagram



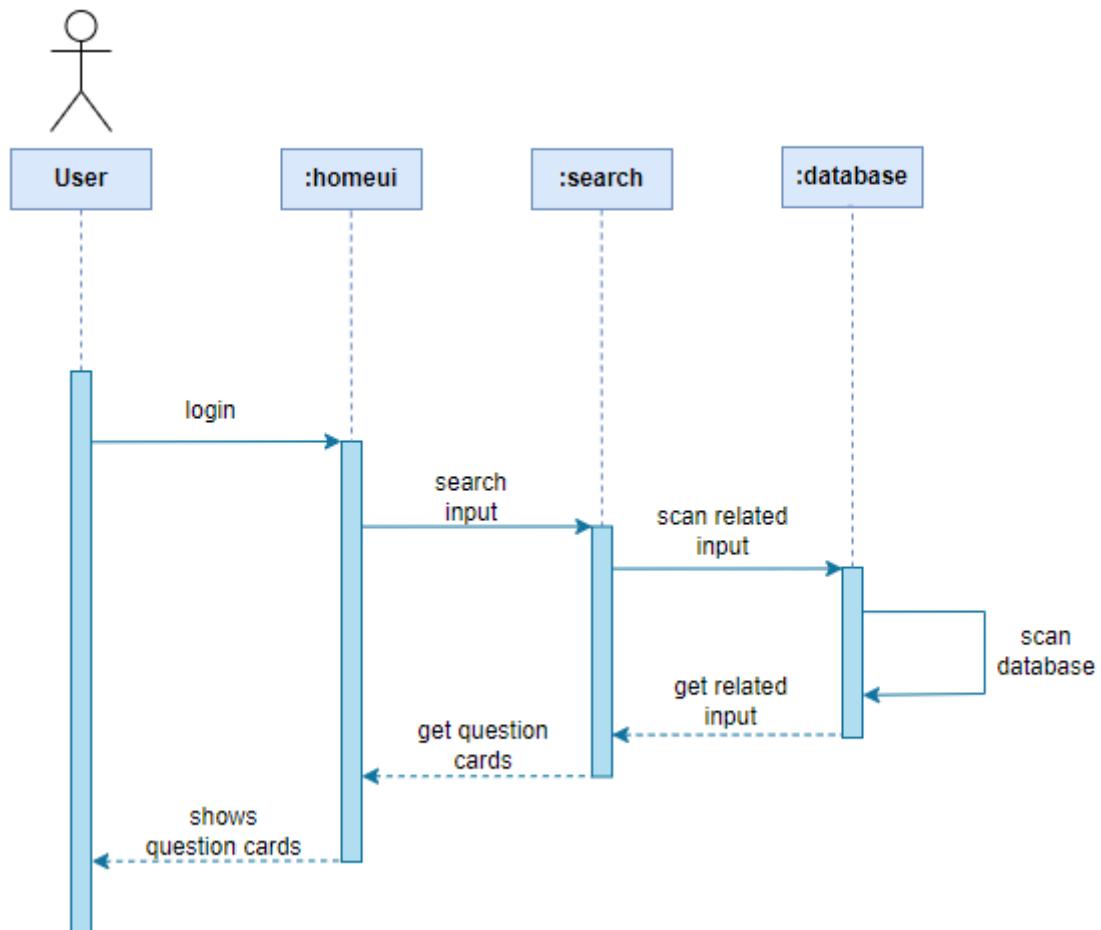
### 3.1.8 Search Bar Use Case

This feature is used to search for a specific question, answer, or other user profile. But admin will not be shown as a result.

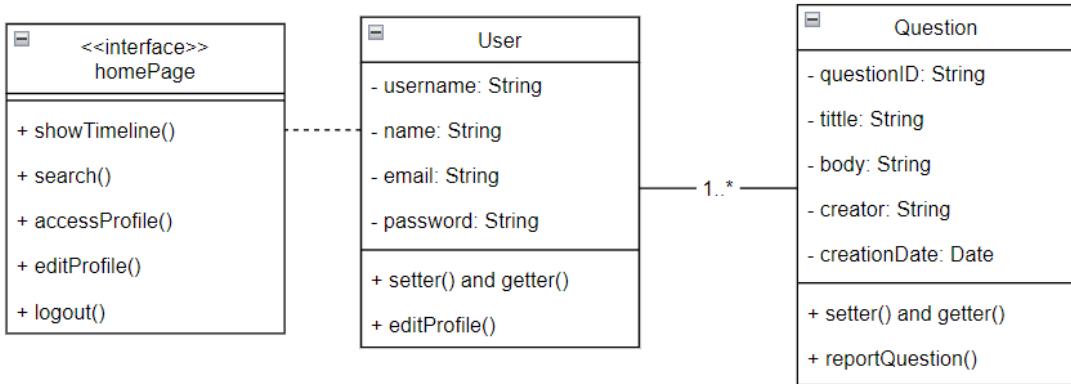
#### 3.1.8.1 Class

No	Class Name Design	Class Type *Class
1	Question	Entity
2	Answer	Entity
3	User	Entity
4	Moderator	Entity

#### 3.1.8.2 Sequence Diagram



### 3.1.8.3 Class Diagram



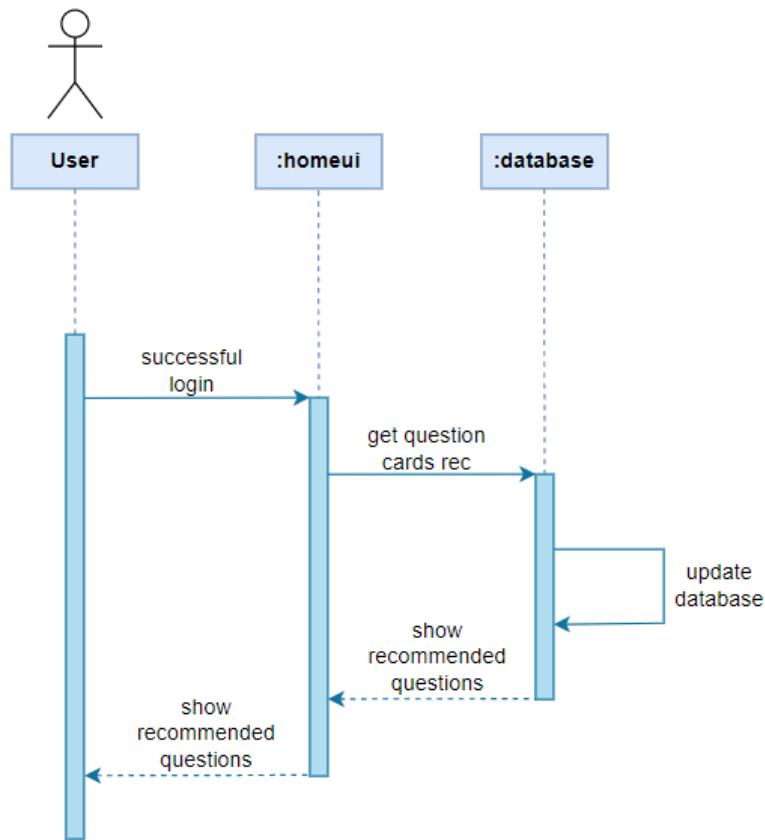
### 3.1.9 Home Page Use Case

This feature appears on the home page automatically after the user logs in. It will show other questions'.

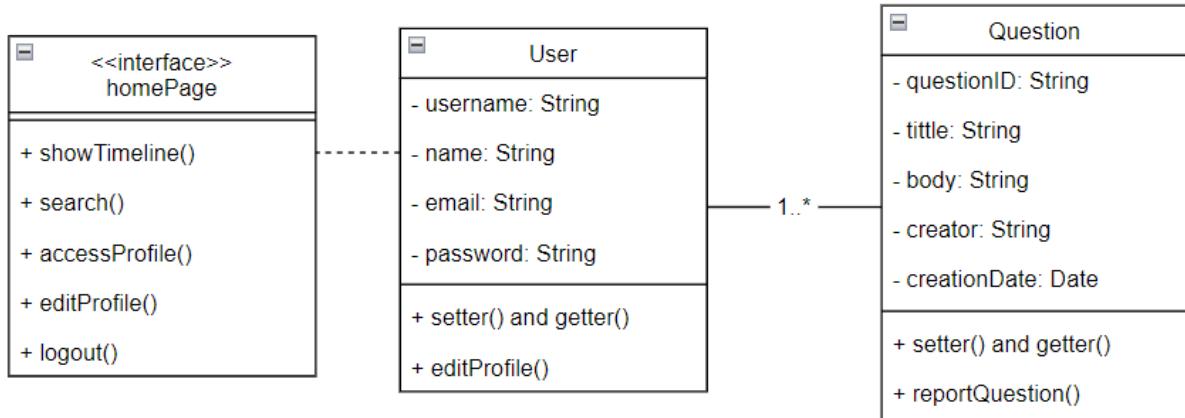
#### 3.1.9.1 Class

No	Class Name Design	Class Type *Class
1	Question	Entity

### 3.1.9.2 Sequence Diagram



### 3.1.9.3 Class Diagram



### 3.1.10 Notification Use Case

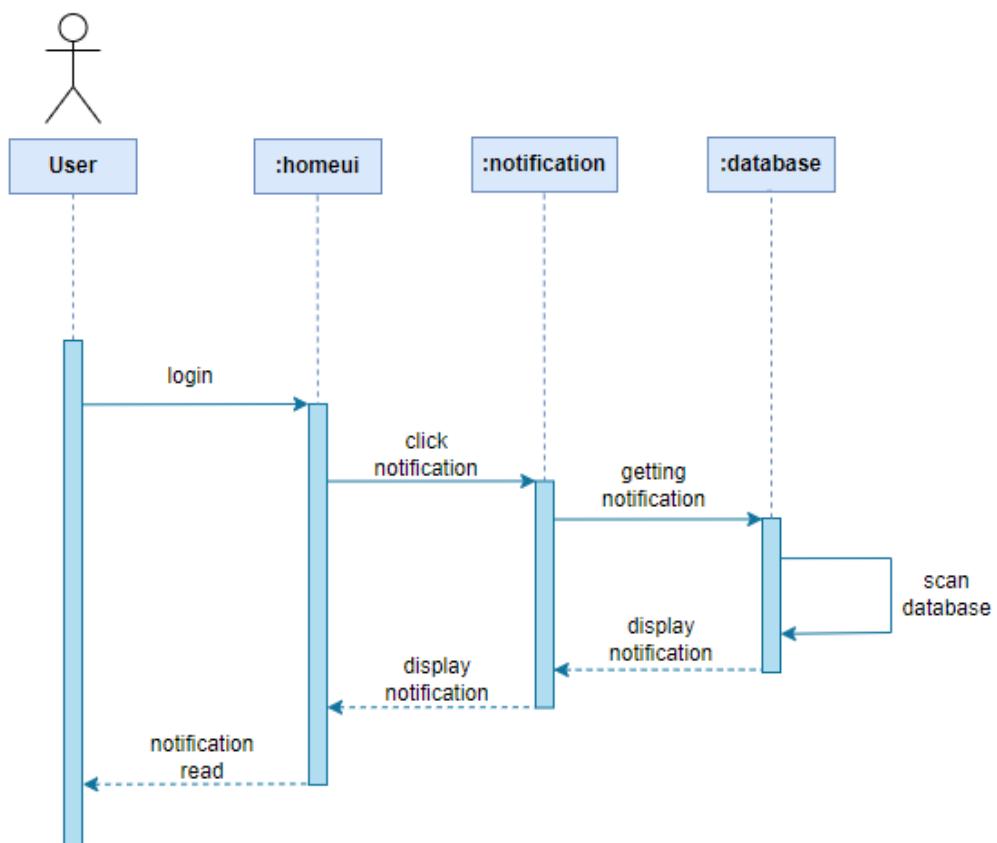
This feature will notify users whenever there is a notification. User, moderator, and admin will have different notifications. Users may receive notifications such as upvotes from their answers and moderator request results. Moderators will receive similar notifications such as users, but also will receive report notifications in which

they will be able to approve the report or not. If the report is approved, the reported question or answer will be deleted. Admin will have notification of user ban request from moderator and moderator request from user.

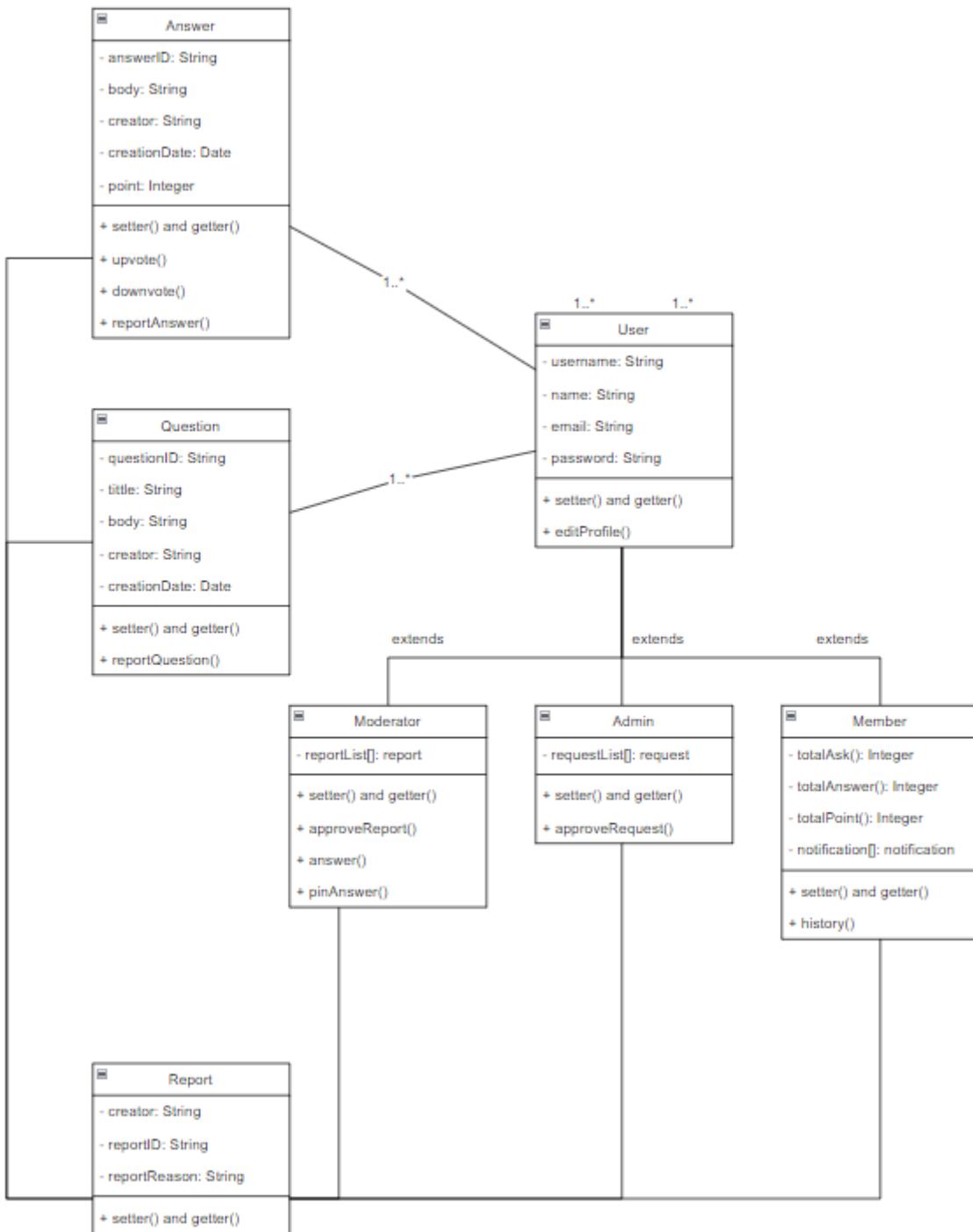
### 3.1.10.1 Class

No	Class Name Design	Class Type *Class
1	User	Entity
2	Question	Controller
3	Answer	Controller
4	Moderator	Entity
5	Admin	Entity
6	Report	Controller

### 3.1.10.2 Sequence Diagram



### 3.1.10.3 Class Diagram



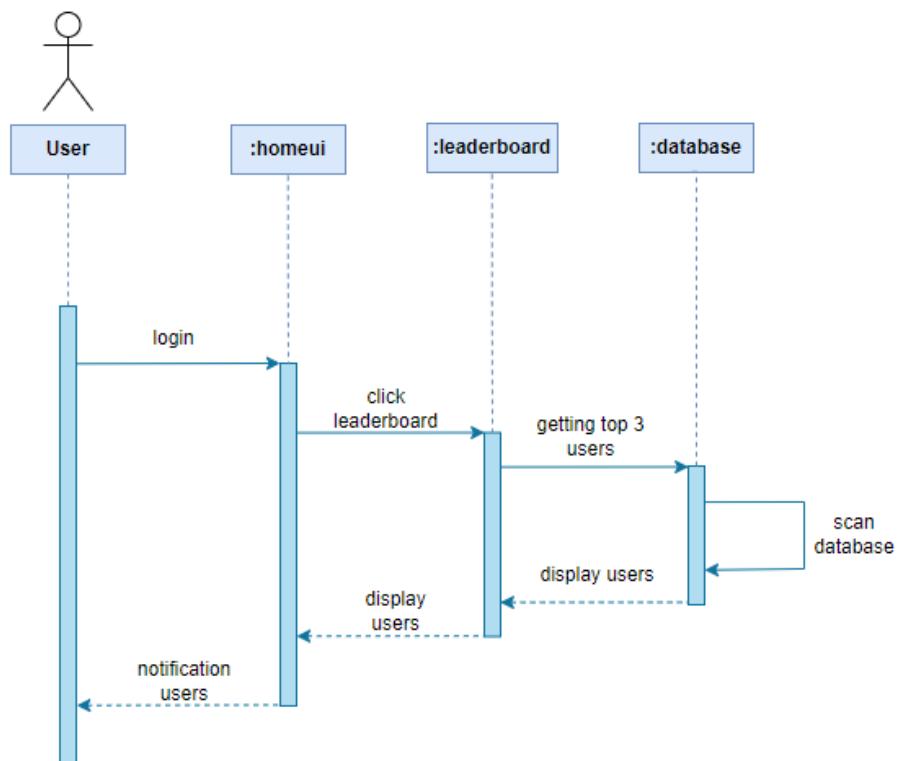
### 3.1.11 Leaderboard Use Case

This feature will display the top three users whose answers get many upvotes in rank format.

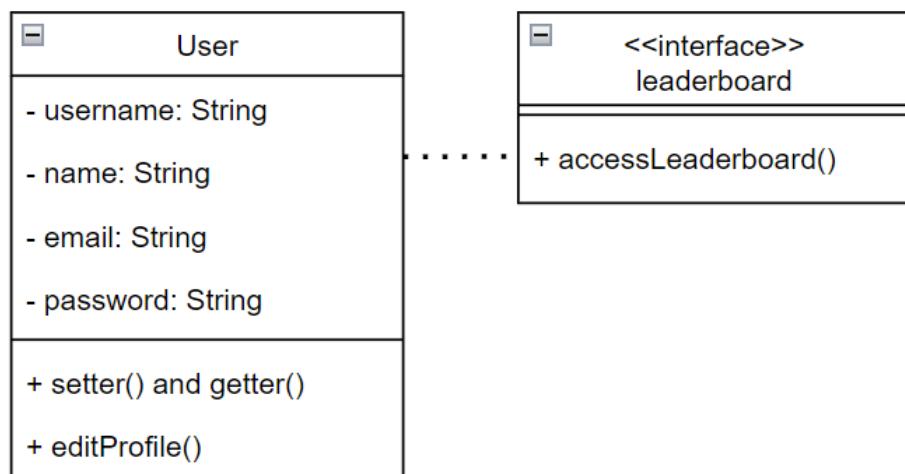
### 3.1.11.1 Class

No	Class Name Design	Class Type *Class
1	User	Entity

### 3.1.11.2 Sequence Diagram



### 3.1.11.3 Class Diagram



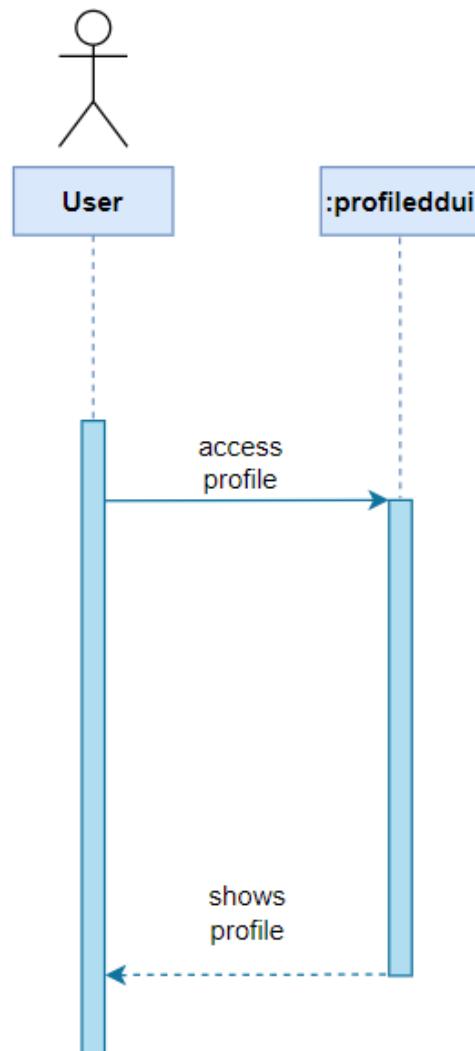
### 3.1.12 Check Profile Use Case

This feature will let the users and moderators check their profile by clicking the check profile button on the profile dropdown. The profile will show the total answers and questions made by the user, their points based on their upvote and downvote, and also request to be moderator for users who are not moderators yet.

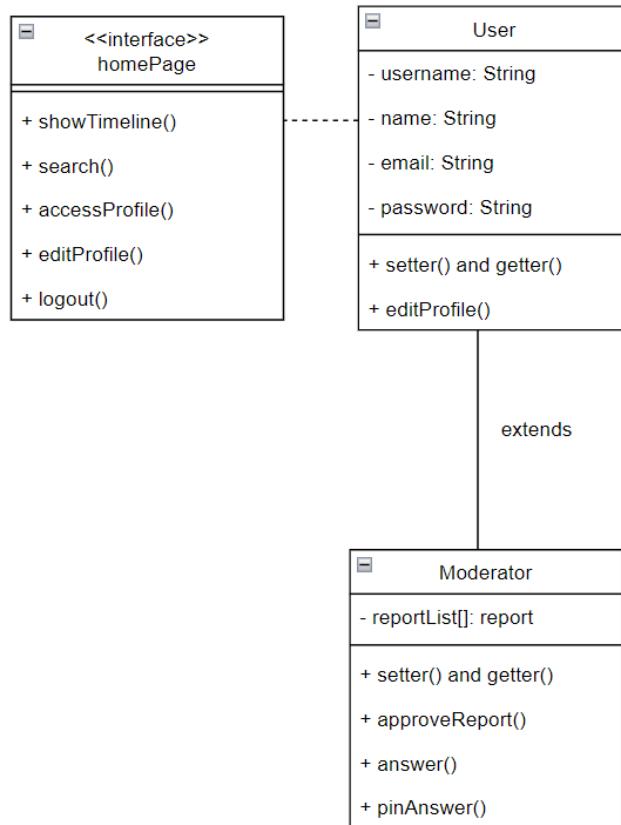
#### 3.1.12.1 Class

No	Class Name Design	Class Type *Class
1	User	Entity
2	Moderator	Entity

#### 3.1.12.2 Sequence Diagram



### 3.1.12.3 Class Diagram



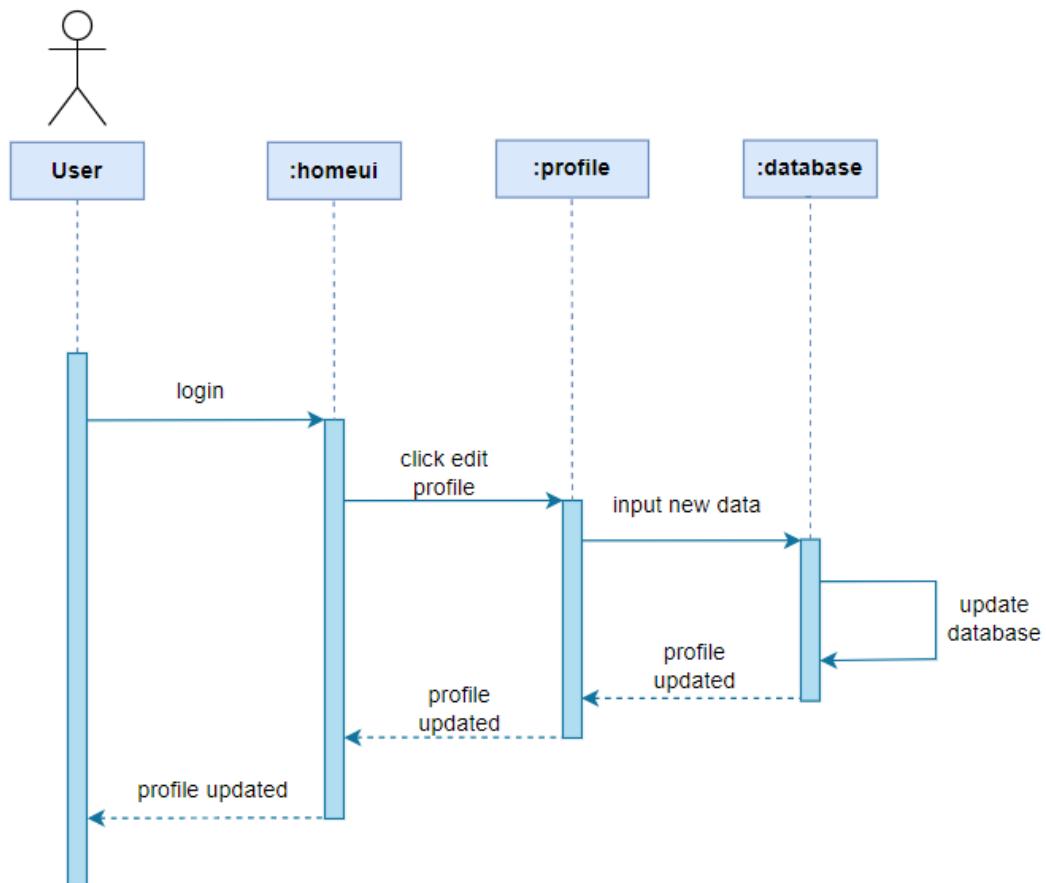
### 3.1.13 Edit Profile Use Case

This feature will let the user and moderator edit their profile. Whether that is their name, profile picture, e-mail address, or password. Users must first go to the profile page that contains a history of questions or answers and a setting icon.

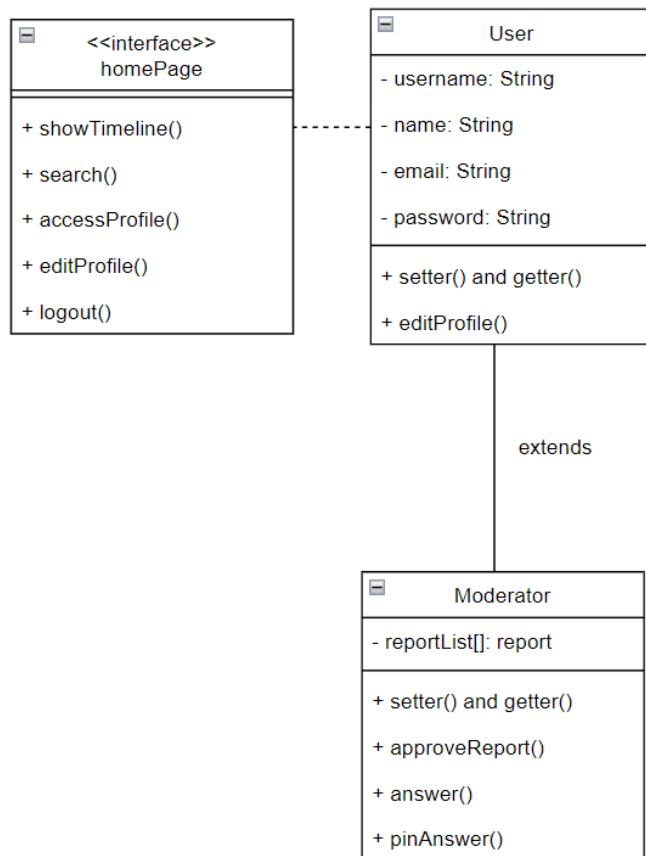
#### 3.1.13.1 Class

No	Class Name Design	Class Type *Class
1	User	Entity
2	Moderator	Entity

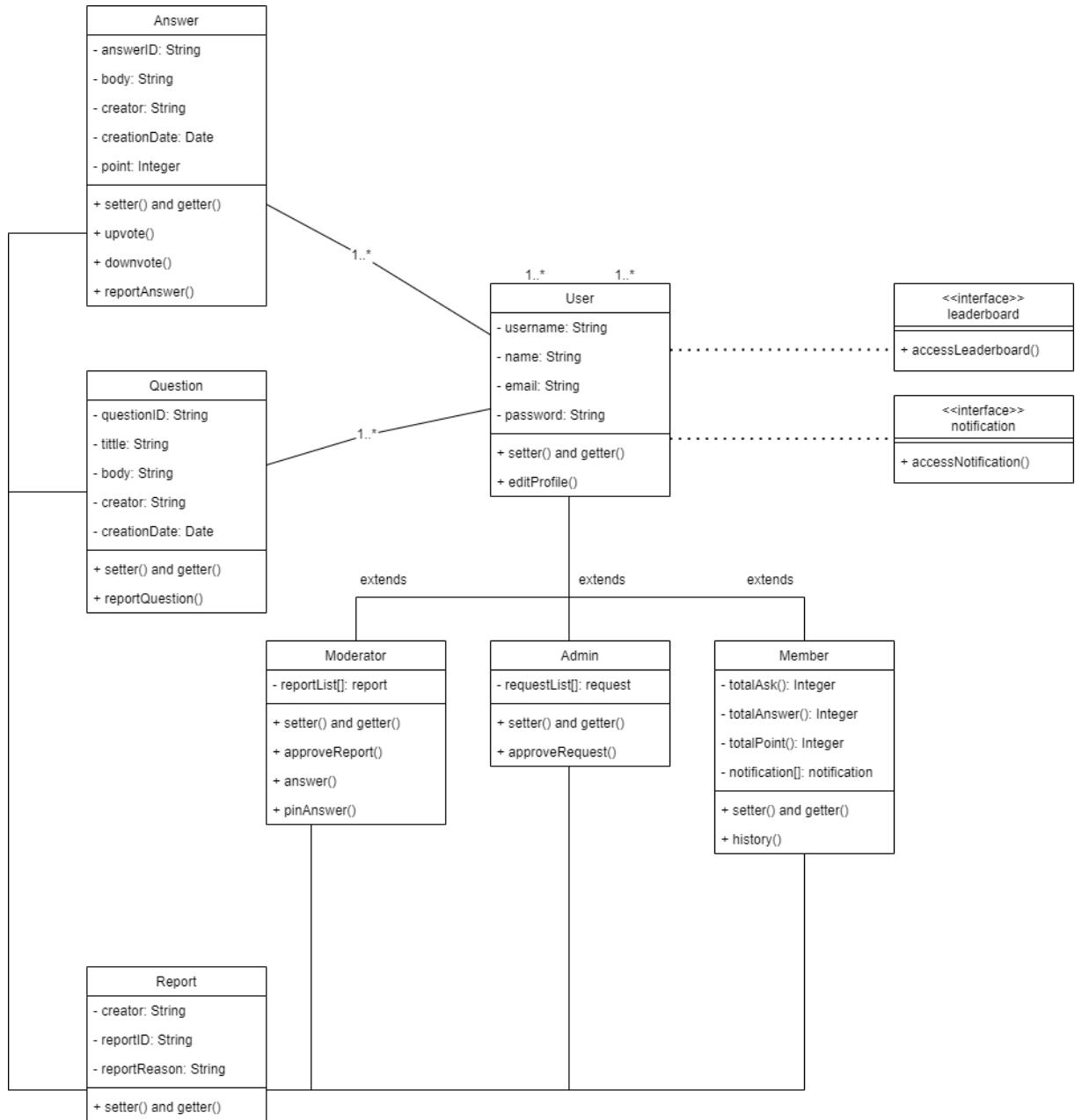
### 3.1.13.2 Sequence Diagram



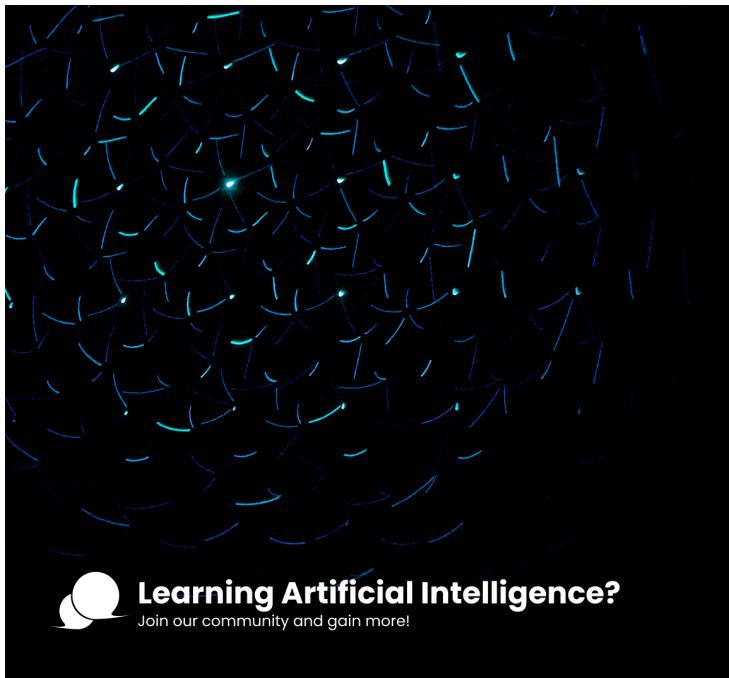
### 3.1.13.3 Class Diagram



### 3.2 Diagram Overall Class



### 3.3 Interface Design



Interface : 1. Login Page

<b>Id Objek</b>	<b>Type</b>	<b>Name</b>	<b>Description</b>
TextField1	Text field	Username	<i>Text field where user puts in their username or email so that they can log in.</i>
TextField2	Text field	Password	<i>Text field where the user puts in their password so that they can log in.</i>
Button1	Button	Login	<i>If clicked, text in username and password will be checked whether it is in the database and correct or not. If it is correct, the user will be taken to the homepage.</i>
Button2	Button	Forgot password?	<i>If clicked, the user will be brought to the reset password page.</i>
Button3	Button	Sign up	<i>If clicked, the user will be brought to the signup page.</i>

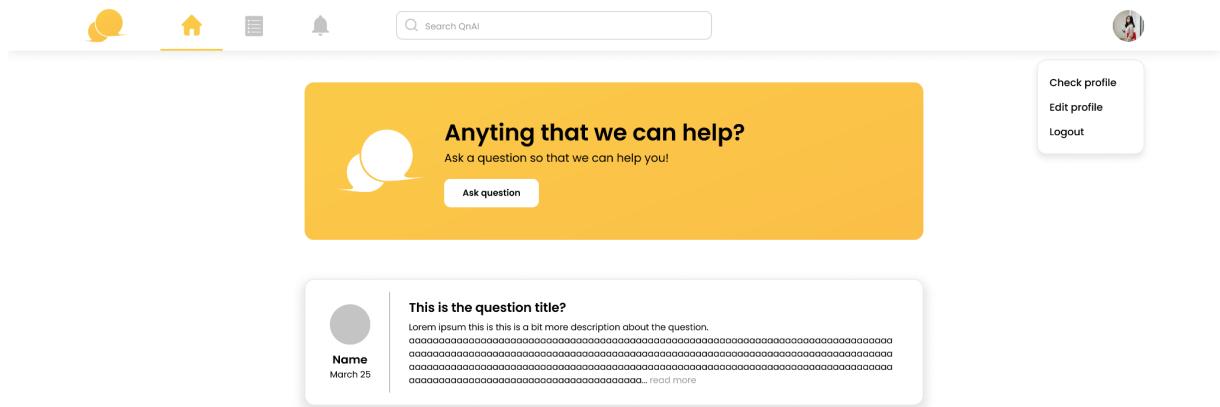
**Sign Up**

**Sign Up**

Already have an account? [Login](#)

Interface : 2. SignupPage

<b>Id Objek</b>	<b>Type</b>	<b>Name</b>	<b>Description</b>
TextField1	Text field	Username	<i>Text field where user puts in their username or email so that it will be a new input to the database.</i>
TextField2	Text field	Password	<i>Text field where the user puts in their password so that it will be a new input to the database.</i>
TextField3	Text field	Confirm password	<i>Text field where the user puts in their password so that it will confirm whether the password is correct or not..</i>
Button1	Button	Signup	<i>If clicked, the user will be taken to the homepage with their new profile.</i>
Button3	Button	Login	<i>If clicked, the user will be brought to the login page.</i>



Interface : 3. HomePage

<b>Id Objek</b>	<b>Type</b>	<b>Name</b>	<b>Description</b>
Button1	Button	Home icon	If clicked, the user will be taken to the home page.
Button2	Button	Leaderboard icon	If clicked, the user will be taken to the leaderboard page
Button3	Button	Notification icon	If clicked, the user will be taken to the notification page
TextField1	Text field	Search bar	Text input in the search bar will be processed and it will take the user to questions or accounts related to the input.
Dropdown1	Button	Profile icon	If clicked, a new set of buttons (Button5, Button 6, and Button7) will show up in the dropdown.
Button4	Button	Check profile	If clicked, the user will be taken to their profile page
Button5	Button	Edit profile	If clicked, the user will be taken to their edit profile page.
Button6	Button	Logout	If clicked, the user will be taken to the login page.
Button7	Button	Ask question	If clicked, the user will be taken to the question page.
Card1	Card	Question card	Contains a question title and question body while also showing the questioner name and the date when the question is created. If clicked, the user will be taken to the question's detail page.

**Title**  
Put in your simplified question

**Body**  
Specify your question here

**Send question**

Interface : 4. QuestionPage

<b>Id Objek</b>	<b>Type</b>	<b>Name</b>	<b>Description</b>
Button1	Button	Home icon	If clicked, the user will be taken to the home page.
Button2	Button	Leaderboard icon	If clicked, the user will be taken to the leaderboard page
Button3	Button	Notification icon	If clicked, the user will be taken to the notification page
TextField1	Text field	Search bar	Text input in the search bar will be processed and it will take the user to questions or accounts related to the input.
TextField2	Text field	Title	Text input will be recorded to the question database as title.
TextField3	Text field	Body	Text input will be recorded to the question database as body.
Button4	Button	Send question	If clicked, the text in title and body will be updated to the database.

The screenshot shows a mobile application interface. At the top, there is a navigation bar with icons for a profile (yellow), home (blue), and search (magnifying glass). A search bar is also present. On the right side of the top bar is a user icon. Below the navigation bar, there is a question card with a grey header containing the text "Lorem ipsum this is the question title." and a "Report" button. The main content area of the card is empty and labeled "pic/code". Below the card, a message says "More text can be added." In the middle section, there is another card with a grey header containing the text "Top Answerer's name" and a "Report" button. The main content area of this card is filled with a repeating pattern of the letter "a". Below this card, there is a blue button with an up arrow and the number "20" and a down arrow. At the bottom of the screen, a message says "This is the end of the list!" and a blue "Add an answer" button.

Interface : 5. QuestionDetailPage

<b>Id Objek</b>	<b>Type</b>	<b>Name</b>	<b>Description</b>
Button1	Button	Home icon	If clicked, the user will be taken to the home page.
Button2	Button	Leaderboard icon	If clicked, the user will be taken to the leaderboard page
Button3	Button	Notification icon	If clicked, the user will be taken to the notification page
TextField1	Text field	Search bar	Text input in the search bar will be processed and it will take the user to questions or accounts related to the input.
Dropdown1	Button	Profile icon	If clicked, a new set of buttons (Button5, Button 6, and Button7) will show up in the dropdown.
Button4	Button	Check profile	If clicked, the user will be taken to their profile page
Button5	Button	Edit profile	If clicked, the user will be taken to their edit profile page.
Button6	Button	Logout	If clicked, the user will be taken to the login page.
Button7	Button	Report	If clicked, a report pop up will appear.
Button8	Button	Upvote and downvote	If upvote button is clicked, the number will increase by one and it will be updated to the database. If downvote button is clicked, the number will decrease by one and it will be updated to the database.
Button9	Button	Add an answer	If clicked, the user will be taken to the answer page.

The screenshot shows a mobile application interface. At the top, there are navigation icons: a yellow speech bubble, a house, a grid, and a bell. A search bar with the placeholder "Search QnAI" is positioned next to the icons. On the right side, there is a user profile icon.

**Question Page:**

- Title:** Lorem ipsum this is the question title.
- Description:** Lorem ipsum this is a bit more description about the question.
- Text Area:** A large gray text area with the placeholder "pic/code". Below it, the text "More text can be added." is visible.

**Answer Page:**

- Title:** Answer
- Description:** Elaborate your answer
- Text Area:** A large text area with a toolbar at the top containing bold (B), italic (I), and other text editing icons.
- Buttons:** A blue "Send answer" button at the bottom right of the text area.

Interface : 6. AnswerPage

<b>Id Objek</b>	<b>Type</b>	<b>Name</b>	<b>Description</b>
Button1	Button	Home icon	If clicked, the user will be taken to the home page.
Button2	Button	Leaderboard icon	If clicked, the user will be taken to the leaderboard page
Button3	Button	Notification icon	If clicked, the user will be taken to the notification page
TextField1	Text field	Search bar	Text input in the search bar will be processed and it will take the user to questions or accounts related to the input.
Dropdown1	Button	Profile icon	If clicked, a new set of buttons (Button5, Button 6, and Button7) will show up in the dropdown.
Button4	Button	Check profile	If clicked, the user will be taken to their profile page
Button5	Button	Edit profile	If clicked, the user will be taken to their edit profile page.
Button6	Button	Logout	If clicked, the user will be taken to the login page.
TextField1	Text field	Answer	Text input in the answer will be updated as an answer toward the question.
Button7	Button	Send answer	If clicked, the text input in the answer will be updated to the database.

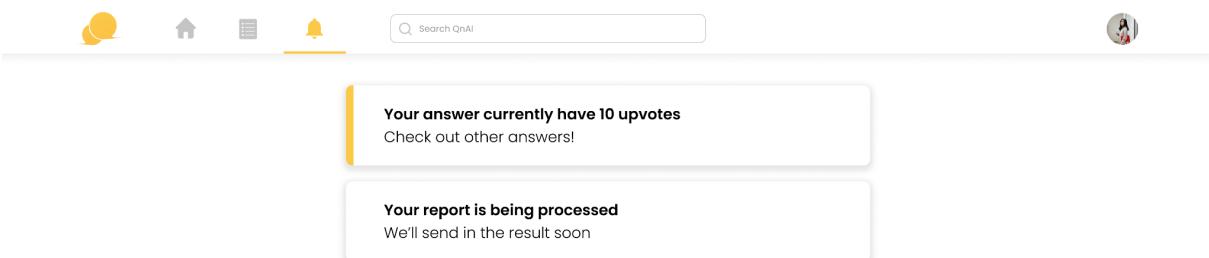
### Why does this needs to be reported?

Specify your reason so that we can consider removing the content

[Send report](#)

Interface : 7. ReportPopUp

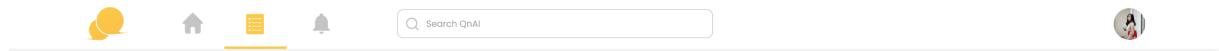
<b>Id Objek</b>	<b>Type</b>	<b>Name</b>	<b>Description</b>
TextField1	Text field	Report reason	Place for user to input report reason in text.
Button1	Button	Send report	If clicked, the text in Report reason will be sent to the moderator.



Interface : 8. NotificationPage

<b>Id Objek</b>	<b>Type</b>	<b>Name</b>	<b>Description</b>
Button1	Button	Home icon	If clicked, the user will be taken to the home page.
Button2	Button	Leaderboard icon	If clicked, the user will be taken to the leaderboard page
Button3	Button	Notification icon	If clicked, the user will be taken to the notification page
TextField1	Text field	Search bar	Text input in the search bar will be processed and it will take the user to questions or accounts related to the input.
Dropdown1	Button	Profile icon	If clicked, a new set of buttons (Button5, Button 6, and Button7) will show up in the dropdown.
Button4	Button	Check profile	If clicked, the user will be taken to their profile page

Button5	Button	Edit profile	If clicked, the user will be taken to their edit profile page.
Button6	Button	Logout	If clicked, the user will be taken to the login page.
Card1	Card	Notification	Contains information related to the user's answer vote or user's question getting answered. If clicked, the user will be taken to the related page regarding the information.



Interface : 9. LeaderboardPage

<b>Id Objek</b>	<b>Type</b>	<b>Name</b>	<b>Description</b>
Button1	Button	Home icon	If clicked, the user will be taken to the home page.
Button2	Button	Leaderboard icon	If clicked, the user will be taken to the leaderboard page
Button3	Button	Notification icon	If clicked, the user will be taken to the notification page
TextField1	Text field	Search bar	Text input in the search bar will be processed and it will take the user to questions or accounts related to the input.
Dropdown1	Button	Profile icon	If clicked, a new set of buttons (Button5, Button 6, and Button7) will show up in the dropdown.
Button4	Button	Check profile	If clicked, the user will be taken to their profile page
Button5	Button	Edit profile	If clicked, the user will be taken to their edit profile page.
Button6	Button	Logout	If clicked, the user will be taken to the login page.

Yolanda Atmajaya

Total Points: 14

4 Questions    3 Answers    Request moderator

**Question 1:** Lorem ipsum this is the question title.  
Lorem ipsum this is a bit more description about the question.

**Question 2:** Lorem ipsum this is the question title.  
Lorem ipsum this is a bit more description about the question.

Yolanda Atmajaya

Total Points: 14

4 Questions    3 Answers    Request moderator

**Question 1:** Lorem ipsum this is the question title.  
Lorem ipsum this is a bit more description about the question.

**Answerer's name:**   
Lorem ipsum this is a bit more description about the question.  
... read more

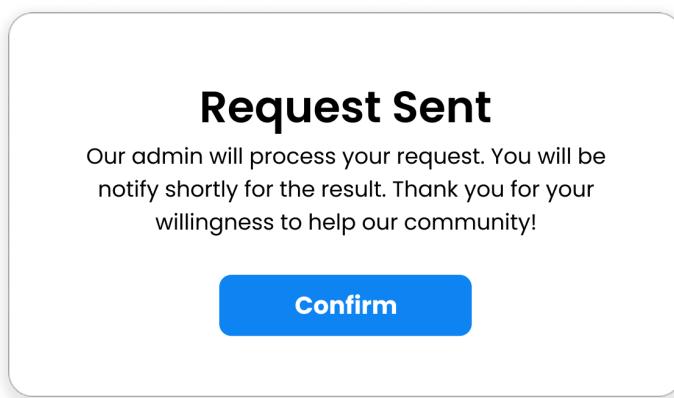
**Question 2:** Lorem ipsum this is the question title.  
Lorem ipsum this is a bit more description about the question.

**Answerer's name:**   
Lorem ipsum this is a bit more description about the question.  
... read more

Interface : 10. profilePage

<b>Id Objek</b>	<b>Type</b>	<b>Name</b>	<b>Description</b>
Button1	Button	Home icon	If clicked, the user will be taken to the home page.
Button2	Button	Leaderboard icon	If clicked, the user will be taken to the leaderboard page
Button3	Button	Notification icon	If clicked, the user will be taken to the notification page
TextField1	Text field	Search bar	Text input in the search bar will be processed and it will take the user to questions or accounts related to the input.
Dropdown1	Button	Profile icon	If clicked, a new set of buttons (Button5, Button 6, and Button7) will show up in the dropdown.

<i>Button4</i>	<i>Button</i>	<i>Check profile</i>	<i>If clicked, the user will be taken to their profile page</i>
<i>Button5</i>	<i>Button</i>	<i>Edit profile</i>	<i>If clicked, the user will be taken to their edit profile page.</i>
<i>Button6</i>	<i>Button</i>	<i>Logout</i>	<i>If clicked, the user will be taken to the login page.</i>
<i>Tab1</i>	<i>Button</i>	<i>Questions</i>	<i>If clicked, the user will see the profile have questions.</i>
<i>Tab2</i>	<i>Button</i>	<i>Answers</i>	<i>If clicked, the user will see the profile have answers.</i>
<i>Card1</i>	<i>Card</i>	<i>Question card</i>	<i>If clicked, the user will be taken to the clicked question detail.</i>
<i>Card2</i>	<i>Card</i>	<i>Answer card</i>	<i>If clicked, the user will be taken to the clicked question detail answer.</i>
<i>Button7</i>	<i>Button</i>	<i>Request moderator</i>	<i>If clicked, a message that the profile user requests to be a moderator will be sent to Admin. Can only be seen in the profile of the user's profile.</i>



Interface : 11. RequestPopUp

<b>Id Objek</b>	<b>Type</b>	<b>Name</b>	<b>Description</b>
<i>Button1</i>	<i>Button</i>	<i>Confirm</i>	<i>If clicked, the window will be closed.</i>

Yolanda Atmajaya

Username: yolandaaa

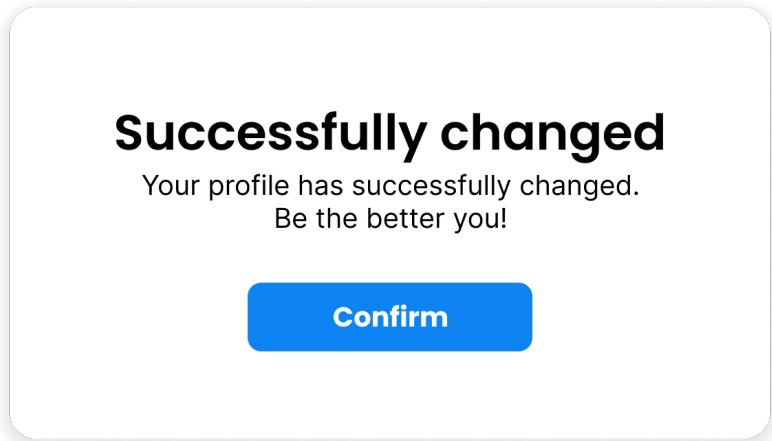
First name: Yolanda Last name: Atmajaya

[Change picture](#)

[Submit](#)

Interface : 12. editProfilePage

<b>Id Objek</b>	<b>Type</b>	<b>Name</b>	<b>Description</b>
Button1	Button	Home icon	If clicked, the user will be taken to the home page.
Button2	Button	Leaderboard icon	If clicked, the user will be taken to the leaderboard page
Button3	Button	Notification icon	If clicked, the user will be taken to the notification page
TextField1	Text field	Search bar	Text input in the search bar will be processed and it will take the user to questions or accounts related to the input.
Dropdown1	Button	Profile icon	If clicked, a new set of buttons (Button5, Button 6, and Button7) will show up in the dropdown.
Button4	Button	Check profile	If clicked, the user will be taken to their profile page
Button5	Button	Edit profile	If clicked, the user will be taken to their edit profile page.
Button6	Button	Logout	If clicked, the user will be taken to the login page.
TextField2	Text field	Username	Contains user's username. Can be changed.
Textfield3	Text field	First name	Contains user's first name. Can be changed.
Textfield4	Text field	Last name	Contains user's last name. Can be changed.
Button6	Button	Change picture	If clicked, user can change their profile picture with photos from their device.
Button7	Button	Submit	If clicked, all changes in text field or profile pictures will be updated in the database and pops up a success message..



*Interface* : 13. RequestPopUp

<b><u>Id Objek</u></b>	<b>Type</b>	<b>Name</b>	<b>Description</b>
<i>Button1</i>	<i>Button</i>	<i>Confirm</i>	<i>If clicked, the window will be closed.</i>

## *Interface : 14. moderatorQuestionDetailPage*

<b>Id Objek</b>	<b>Type</b>	<b>Name</b>	<b>Description</b>
Button1	Button	Home icon	If clicked, the user will be taken to the home page.

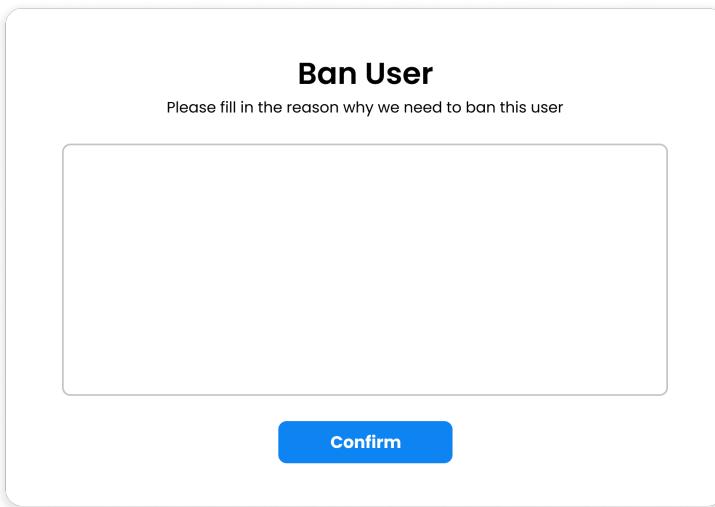
<i>Button2</i>	<i>Button</i>	<i>Leaderboard icon</i>	<i>If clicked, the user will be taken to the leaderboard page</i>
<i>Button3</i>	<i>Button</i>	<i>Notification icon</i>	<i>If clicked, the user will be taken to the notification page</i>
<i>TextField1</i>	<i>Text field</i>	<i>Search bar</i>	<i>Text input in the search bar will be processed and it will take the user to questions or accounts related to the input.</i>
<i>Dropdown1</i>	<i>Button</i>	<i>Profile icon</i>	<i>If clicked, a new set of buttons (Button5, Button 6, and Button7) will show up in the dropdown.</i>
<i>Button4</i>	<i>Button</i>	<i>Check profile</i>	<i>If clicked, the user will be taken to their profile page</i>
<i>Button5</i>	<i>Button</i>	<i>Edit profile</i>	<i>If clicked, the user will be taken to their edit profile page.</i>
<i>Button6</i>	<i>Button</i>	<i>Logout</i>	<i>If clicked, the user will be taken to the login page.</i>
<i>Button7</i>	<i>Button</i>	<i>Report</i>	<i>If clicked, a report pop up will appear.</i>
<i>Button8</i>	<i>Button</i>	<i>Upvote and downvote</i>	<i>If upvote button is clicked, the number will increase by one and it will be updated to the database. If downvote button is clicked, the number will decrease by one and it will be updated to the database.</i>
<i>Button9</i>	<i>Button</i>	<i>Add an answer</i>	<i>If clicked, the user will be taken to the answer page.</i>
<i>Button10</i>	<i>Button</i>	<i>Pin</i>	<i>If clicked, the answer will be pinned on top of other answers. If clicked again, it will undo the pin.</i>

The screenshot shows a user profile for 'Yolanda Atmajaya'. At the top, there's a yellow notification icon, a search bar with placeholder 'Search QnAI', and a user icon. Below the header, the user's profile picture is displayed next to her name, 'Yolanda Atmajaya', and 'Total Points: 14'. Underneath her name, there are two tabs: '4 Questions' (which is highlighted in yellow) and '3 Answers'. To the right of these tabs is a 'Ban user' button. The main content area contains two question cards, each with a gray circular icon, the question title 'Lorem ipsum this is the question title.', and a brief description: 'Lorem ipsum this is a bit more description about the question.' The background features a light gray gradient.

Interface : 15. moderatorProfilePage

<b><u>Id Objek</u></b>	<b>Type</b>	<b>Name</b>	<b>Description</b>
<i>Button1</i>	<i>Button</i>	<i>Home icon</i>	<i>If clicked, the user will be taken to the home page.</i>
<i>Button2</i>	<i>Button</i>	<i>Leaderboard icon</i>	<i>If clicked, the user will be taken to the leaderboard page</i>
<i>Button3</i>	<i>Button</i>	<i>Notification icon</i>	<i>If clicked, the user will be taken to the notification page</i>

<i>TextField1</i>	<i>Text field</i>	<i>Search bar</i>	<i>Text input in the search bar will be processed and it will take the user to questions or accounts related to the input.</i>
<i>Dropdown1</i>	<i>Button</i>	<i>Profile icon</i>	<i>If clicked, a new set of buttons (Button5, Button 6, and Button7) will show up in the dropdown.</i>
<i>Button4</i>	<i>Button</i>	<i>Check profile</i>	<i>If clicked, the user will be taken to their profile page</i>
<i>Button5</i>	<i>Button</i>	<i>Edit profile</i>	<i>If clicked, the user will be taken to their edit profile page.</i>
<i>Button6</i>	<i>Button</i>	<i>Logout</i>	<i>If clicked, the user will be taken to the login page.</i>
<i>Tab1</i>	<i>Button</i>	<i>Questions</i>	<i>If clicked, the user will see the profile have questions.</i>
<i>Tab2</i>	<i>Button</i>	<i>Answers</i>	<i>If clicked, the user will see the profile have answers.</i>
<i>Card1</i>	<i>Card</i>	<i>Question card</i>	<i>If clicked, the user will be taken to the clicked question detail.</i>
<i>Card2</i>	<i>Card</i>	<i>Answer card</i>	<i>If clicked, the user will be taken to the clicked question detail answer.</i>
<i>Button7</i>	<i>Button</i>	<i>Ban request</i>	<i>If clicked, a message that the profile user requests to be banned will be sent to Admin. Can only be seen in the profile of the user's profile.</i>



Interface : 16. moderatorBanPopUp

<b>Id Objek</b>	<b>Type</b>	<b>Name</b>	<b>Description</b>
<i>TextField1</i>	<i>Text field</i>	<i>Ban reason</i>	<i>Place for moderator to input ban reason in text.</i>
<i>Button1</i>	<i>Button</i>	<i>Send report</i>	<i>If clicked, the text in ban reason will be sent to the admin.</i>

## Ban Request Sent

Our admin will process your request. You will be notify shortly for the result. Thank you for your willingness to help our community!

**Confirm**

Interface : 17. moderatorBanConfirmPopUp

<b>Id Objek</b>	<b>Type</b>	<b>Name</b>	<b>Description</b>
Button1	Button	Confirm	If clicked, the window will be closed.

## Report Post

Please fill in the reason why we need to delete this post

**Confirm**

Interface : 18. moderatorReportPopUp

<b>Id Objek</b>	<b>Type</b>	<b>Name</b>	<b>Description</b>
TextField1	Text field	Report reason	Place for moderator to input report reason in text.
Button1	Button	Send report	If clicked, the text in Report reason will be sent to the admin.

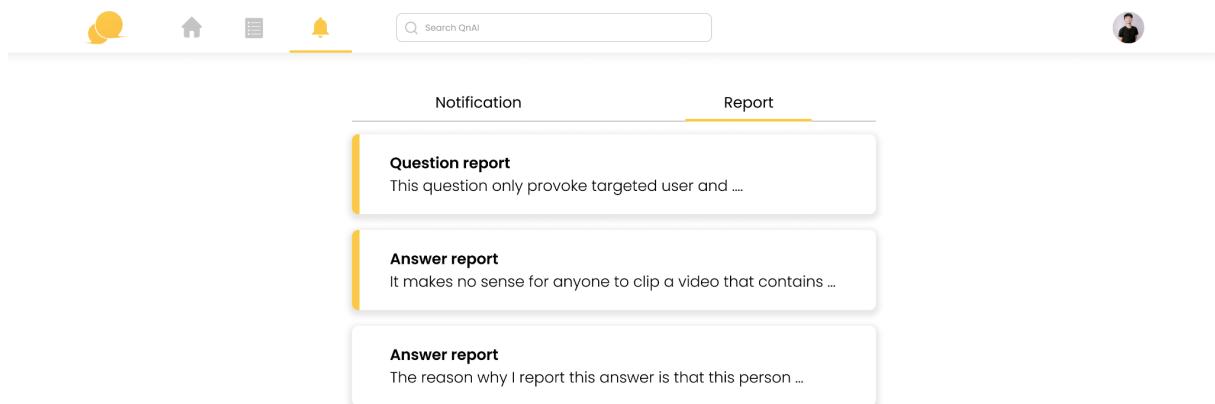
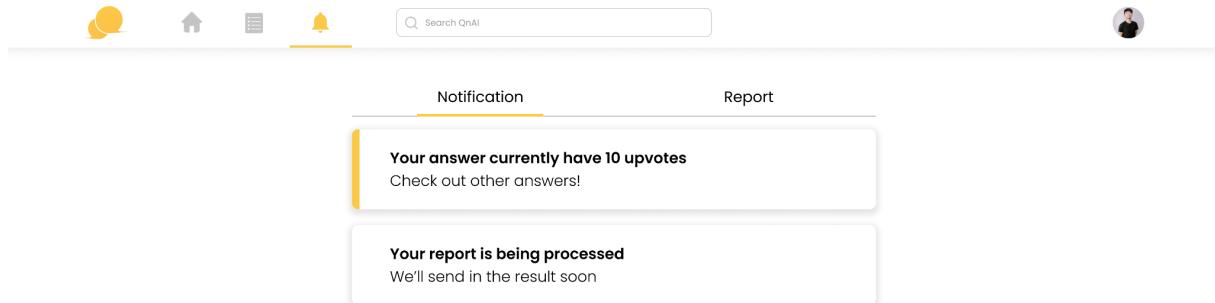
## Report Sent

Our admin will process your request. You will be notify shortly for the result. Thank you for your willingness to help our community!

**Confirm**

Interface : 19. moderatorReportConfirmPopUp

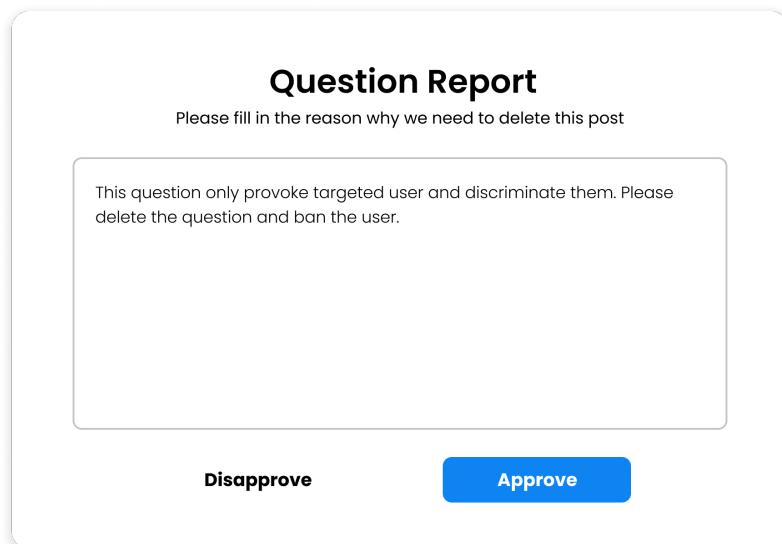
<b>Id Objek</b>	<b>Type</b>	<b>Name</b>	<b>Description</b>
Button1	Button	Confirm	If clicked, the window will be closed.



Interface : 20. moderatorNotificationPage

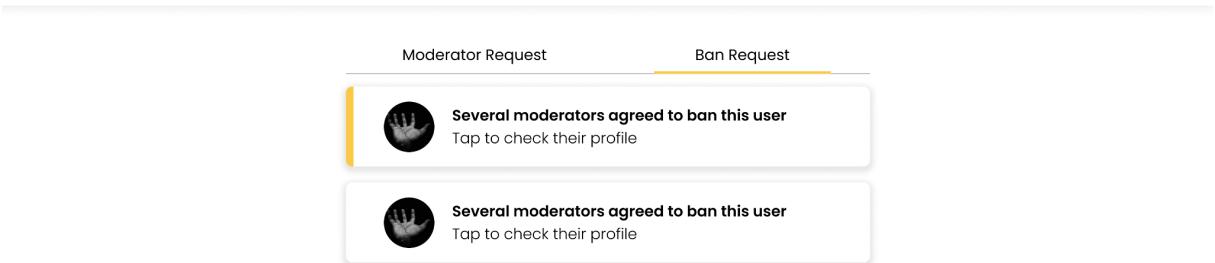
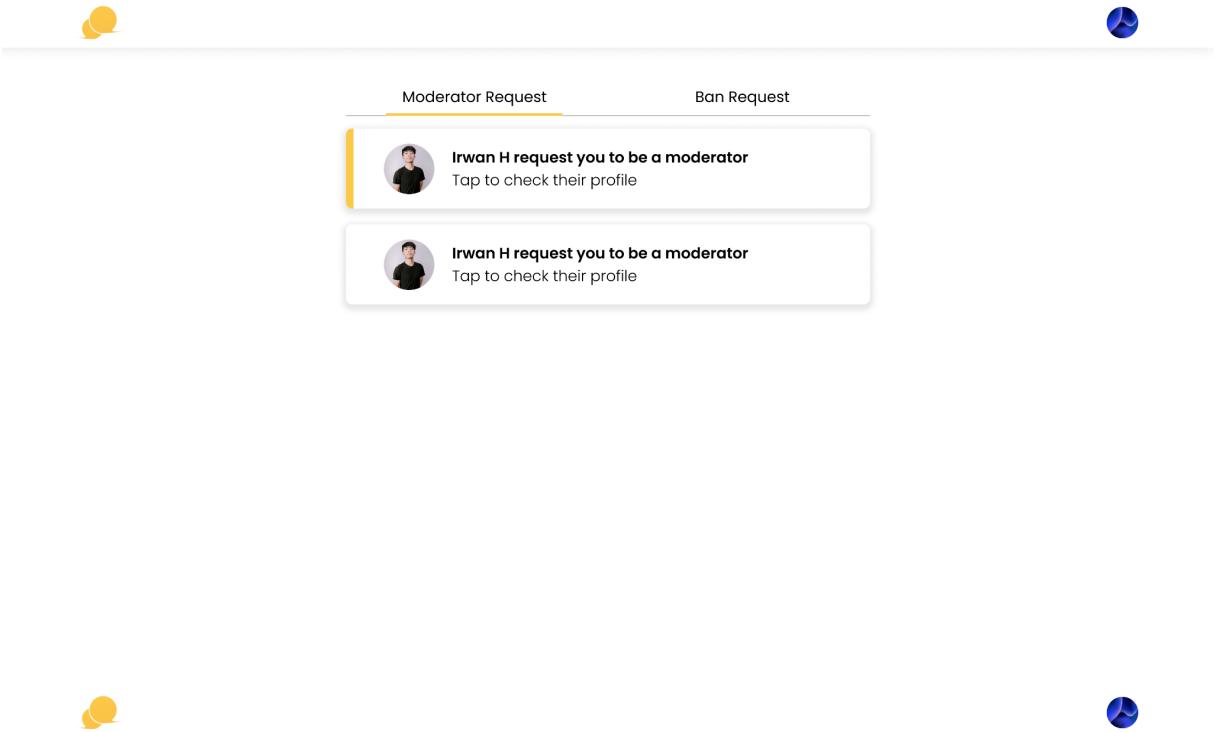
<b>Id Objek</b>	<b>Type</b>	<b>Name</b>	<b>Description</b>
Button1	Button	Home icon	If clicked, the user will be taken to the home page.
Button2	Button	Leaderboard icon	If clicked, the user will be taken to the leaderboard page
Button3	Button	Notification icon	If clicked, the user will be taken to the notification page

<i>TextField1</i>	<i>Text field</i>	<i>Search bar</i>	<i>Text input in the search bar will be processed and it will take the user to questions or accounts related to the input.</i>
<i>Dropdown1</i>	<i>Button</i>	<i>Profile icon</i>	<i>If clicked, a new set of buttons (Button5, Button 6, and Button7) will show up in the dropdown.</i>
<i>Button4</i>	<i>Button</i>	<i>Check profile</i>	<i>If clicked, the user will be taken to their profile page</i>
<i>Button5</i>	<i>Button</i>	<i>Edit profile</i>	<i>If clicked, the user will be taken to their edit profile page.</i>
<i>Button6</i>	<i>Button</i>	<i>Logout</i>	<i>If clicked, the user will be taken to the login page.</i>
<i>Tab1</i>	<i>Button</i>	<i>Notification</i>	<i>If clicked, the moderator will see the notification list.</i>
<i>Tab2</i>	<i>Button</i>	<i>Report</i>	<i>If clicked, the moderator will see the report list.</i>
<i>Card1</i>	<i>Card</i>	<i>Notification card</i>	<i>Contains information related to the user's answer vote or user's question getting answered. If clicked, the user will be taken to the related page regarding the information.</i>
<i>Card2</i>	<i>Card</i>	<i>Report card</i>	<i>Contains information related to the report reason. If clicked, the moderator will be taken to the related report approval pop up.</i>



Interface : 21. moderatorReportApprovalPopUp

<b>Id Objek</b>	<b>Type</b>	<b>Name</b>	<b>Description</b>
<i>Button1</i>	<i>Button</i>	<i>Disapprove</i>	<i>If clicked, the report request will be deleted.</i>
<i>Button2</i>	<i>Button</i>	<i>Approve</i>	<i>If clicked, the related question or answer will be reported and the data will be sent to the admin.</i>



Interface : 22. adminNotificationPage

<b>Id Objek</b>	<b>Type</b>	<b>Name</b>	<b>Description</b>
<i>Dropdown1</i>	<i>Button</i>	<i>Profile icon</i>	<i>If clicked, a new button (Button 1) will show up in the dropdown.</i>
<i>Button1</i>	<i>Button</i>	<i>Logout</i>	<i>If clicked, the user will be taken to the login page.</i>
<i>Tab1</i>	<i>Button</i>	<i>Moderator Request</i>	<i>If clicked, the admin will see the moderator request list.</i>
<i>Tab2</i>	<i>Button</i>	<i>Ban Request</i>	<i>If clicked, the moderator will see the ban request list.</i>
<i>Card1</i>	<i>Card</i>	<i>Moderator request card</i>	<i>Contains information related to the user who requested to be a moderator. If clicked, the user</i>

			<i>will be taken to the related profile regarding the request.</i>
Card2	Card	Ban request card	<i>Contains information related to the user who requested to be banned by a moderator. If clicked, the user will be taken to the related profile regarding the request.</i>

User profile for Irwan H:

- Total Points: 173
- 4 Questions
- 3 Answers
- Approve Moderator button

Two question cards are shown:

- Question 1:** Lorem ipsum this is the question title. Lorem ipsum this is a bit more description about the question.
- Question 2:** Lorem ipsum this is the question title. Lorem ipsum this is a bit more description about the question.

User profile for Fas Heng:

- Total Points: -32
- 4 Questions
- 3 Answers
- Approve Ban button

Two question cards are shown:

- Question 1:** Lorem ipsum this is the question title. Lorem ipsum this is a bit more description about the question.
- Question 2:** Lorem ipsum this is the question title. Lorem ipsum this is a bit more description about the question.

Interface : 15. moderatorProfilePage

<b>Id_Objek</b>	<b>Type</b>	<b>Name</b>	<b>Description</b>
Dropdown1	Button	Profile icon	If clicked, a new button (Button 1) will show up in the dropdown.
Button1	Button	Logout	If clicked, the user will be taken to the login page.

Tab1	Button	Questions	If clicked, the user will see the profile have questions.
Tab2	Button	Answers	If clicked, the user will see the profile have answers.
Card1	Card	Question card	If clicked, the user will be taken to the clicked question detail.
Card2	Card	Answer card	If clicked, the user will be taken to the clicked question detail answer.
Button7	Button	Approve moderator	If clicked, the user in the profile page will turn into a moderator.
Button8	Button	Approve ban	If clicked, the user in the profile page will be banned and the profile will be deleted.

### 3.4 Design of Class Persistence Representation

