

A
Project Report
On
Discussion Forum

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CERTIFICATE

This is to certify that the project entitled “Discussion Forum” in the subject of “Object Oriented Software Engineering” is a bonafied report of the work carried out by

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of Department of Computer Engineering semester **VI** in the branch of **Computer Engineering** during the academic year **2019-2020**.

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ACKNOWLEDGEMENT

The success and final outcome of this project required a lot of guidance and assistance from many people and we are extremely privileged to have got this all along the completion of our project. All that we have done is only due to such supervision and assistance and we would not forget to thank them.

We respect and thank to the faculties for providing us an opportunity to do the project and giving us all support and guidance which made us complete the project duty. We are extremely thankful to them for providing such a nice support, guidance by taking keen interest in our project.

We would also like to express our special thanks of gratitude to our HOD Prof. CKB sir who gave us the golden opportunity to do this wonderful project on the topic: Adaptive quiz System. We would also like to thank him for including such things in curriculum making it more interesting and useful practically.

Finally we would like to thank each and every person who was there around us helping more or less in our project and keeping us motivated to work hard and complete the project. We would also thank them for inspiring us and sharing their ideas and views to make this project a success.

Yours sincerely,

Samyak Mehta (CE-67)

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1]. ABSTRACT

“Online Discussion forum management system” is aimed at developing online form for the group discussion. This is a windows form application to manage group discussion forum. Whenever a question is asked by the end-user to get information ,it is seen in relevant topic. Any user can post the doubts topics and can reply for the other user doubts. There is a centralized database in which all the information is managed. The user can submit query. The administrator has the rights to update the database. This is useful for a small office, school or a department or for that matter any group who is interested to organize it effectively. There are also connected user who acts as an intermediate user who can also answer the questions of the end-user if they know it. Facility to share the resource and post articles that can be viewed by registered user. Whenever the new information is arrived it is updated by the end-user.

2] INTRODUCTION

Can human interaction over the internet be personally and socially transformative? The introduction of new, disruptive technology is always accompanied by a deep suspicion – for example, the telephone was greeted by claims that it would break up home life and stop people from visiting friends and the internet has been no exception to this rule.

As we detail below, debates about the supposed pros and cons of internet-based interaction have focused primarily on individual well-being, largely ignoring the potential benefits at more inclusive levels of analysis (community and society). We propose that one of the key benefits of online interaction has been overlooked by researchers.

My purpose in this project is to demonstrate that online interaction can make offline engagement at the same time, counter-intuitively, as it shows an individual well-being. we see that *interaction* with other forum users plays an influential role in both these processes.

2.1 Technology/Platform/Tools used

Technology

- Windows Form Application

TOOLS

- Visual Studio 2019

3]Software Requirement Specification

Types of Users

- Admin
- User

User authentication

R.1 [Manage User Sign Up]

- Input:User details
- Output:User registered in the system message.
- Description:User needs to provide the credentials and based on it message is generated.

R.2 [Manage User Log in]

- Input:User Details.
- Output:User logs into the system.
- Description:Based on the registered user,if credentials are correct the only user is allowed to log in the system.

R.3 [Manage Categories]

- Input:Add categories
- Output:Categories are added.
- Description:User are allowed to add categories if not present.

R.3.1 [Manage Close Category]

- Input:Select command
- Output:Category Hidden message.
- Description:Only the person who has opened the topic and top rated user will be able to close the topic.

R.3.2 [Manage Open Category]

- Input:Select command
- Output:Category is opened.
- Description:Whenever the user wants to open the topic he/she can reopen the topic.

R.4 [Manage Questions]

- Input:select command.
- Output:user is provided options to add update and delete the question.
-

R.4.1 [Ask Questions]

- Input:Ask the Questions.
- Output:Question added into the system.
- Description:User will be able to ask Questions selecting a particular category.

R.4.2 [Edit Question]

- Input:User selects the questions.
- Output:Question is updated.
- Description:User will have to select the question and update whatever needed.

R.4.3 [Delete Question]

- Input:User selects the question.
- Output:Question is deleted.
- Description:Question is deleted by the user.

R.5 [Manage Answers]

- input:Answer in the textbox.
- Output: Answer confirmation message.
- Description:The user will be able to annswer the questions and select command to get confirmation message.

R.5.1 [Add answers]

- input:Answer in question
- output:Answer added in system.

R.5.2 [Update Answer]

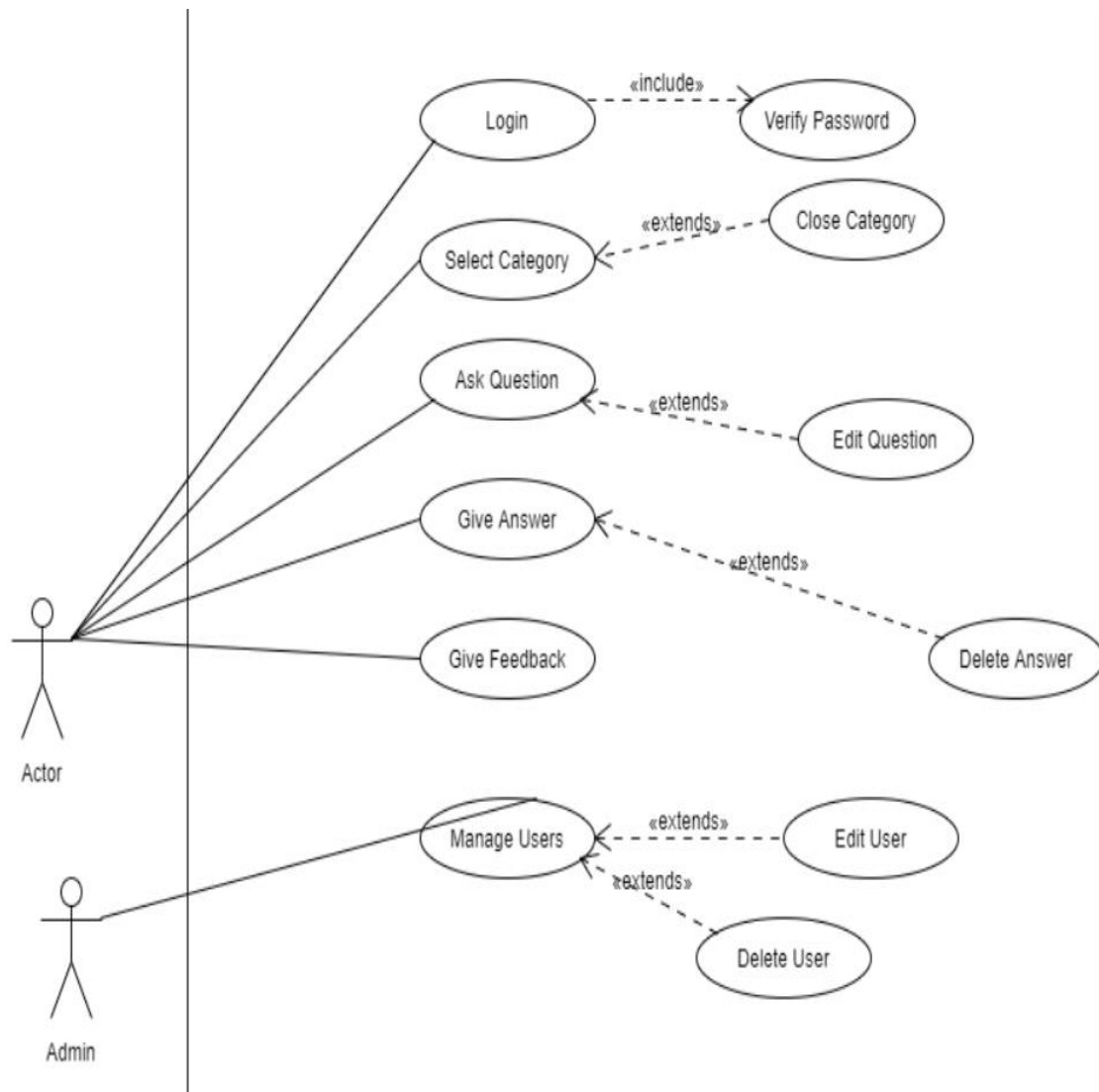
- input:Select update command.
- output:Update message confirmation.
- Description:User will be able to select the answer that he/she have given and can update the answers whenever required.

R.5.3 [Delete answer]

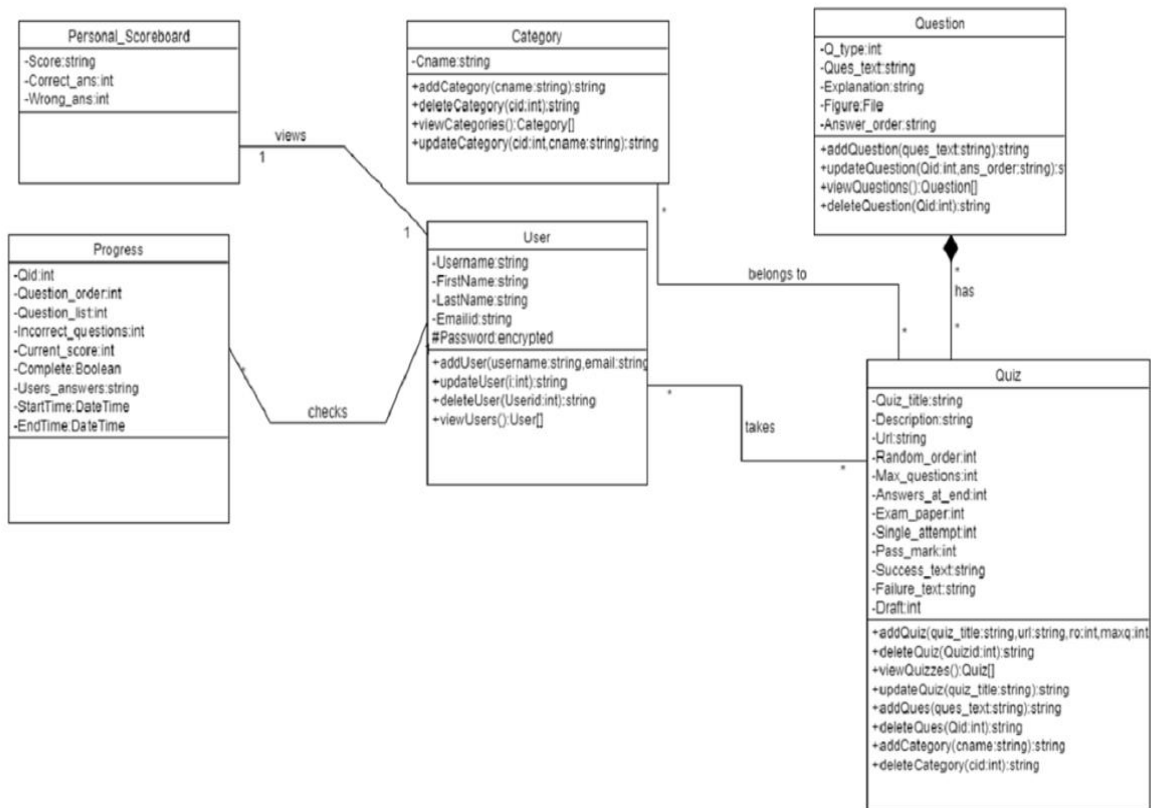
- Input:Select Command.
- Output>Delete message confirmation.

4]DESIGN

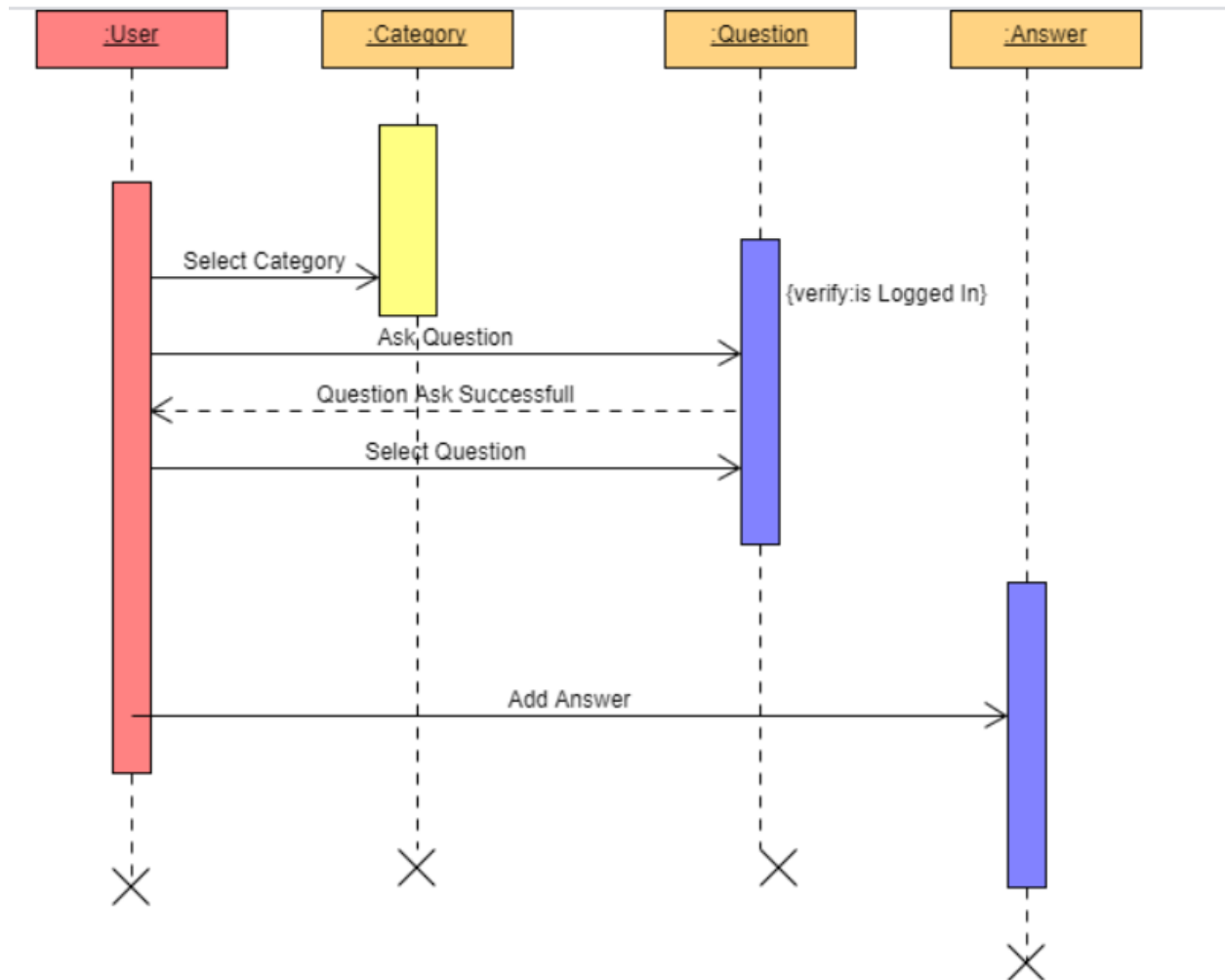
4.1 Use Case Diagram of Admin and User



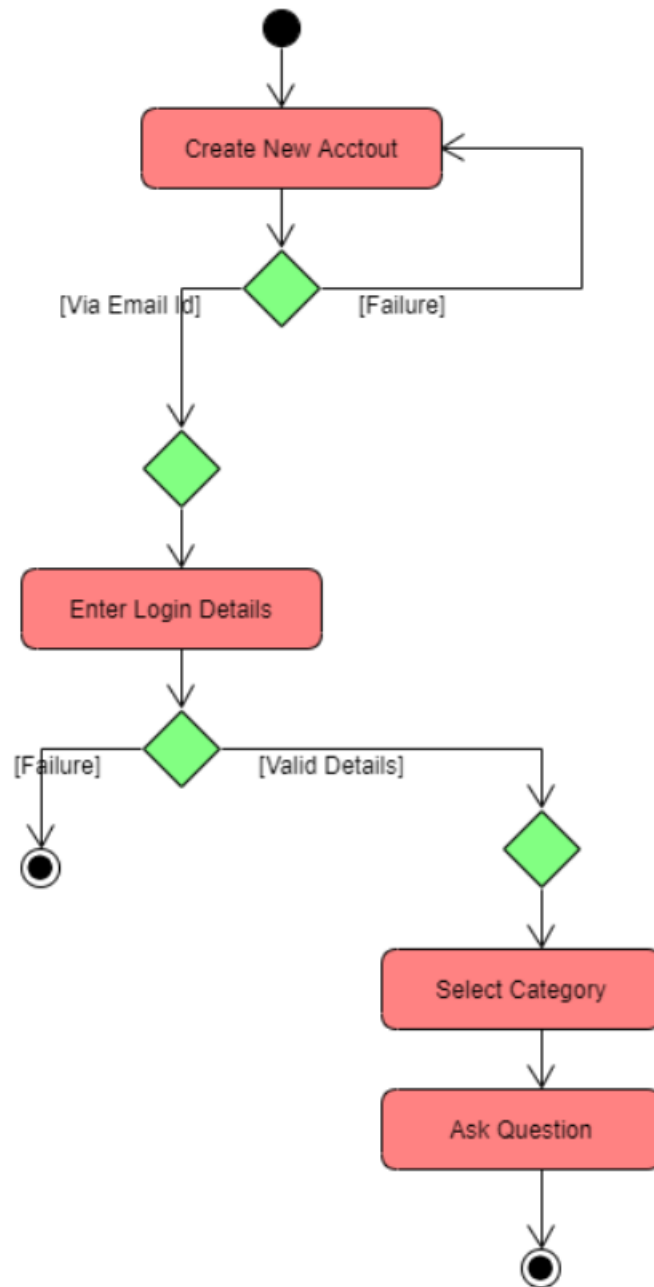
4.2 Class Diagram

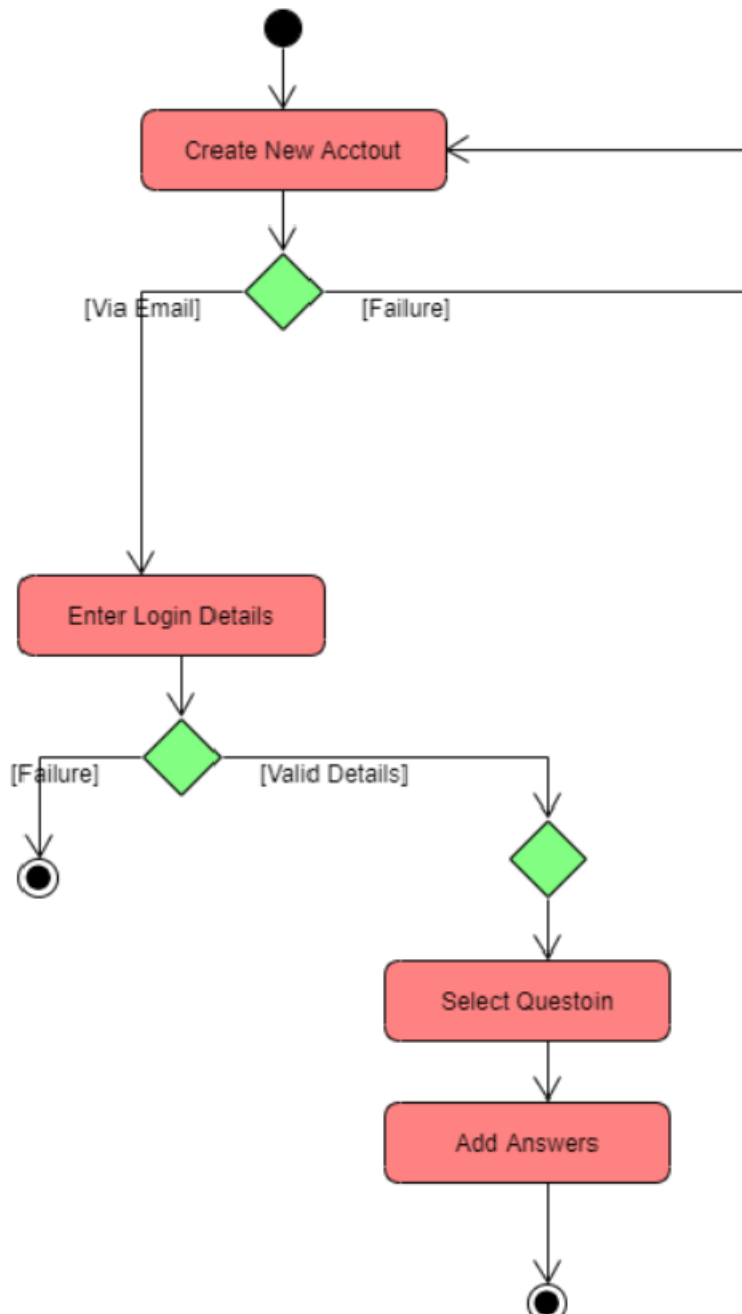


4.3 Sequence diagram

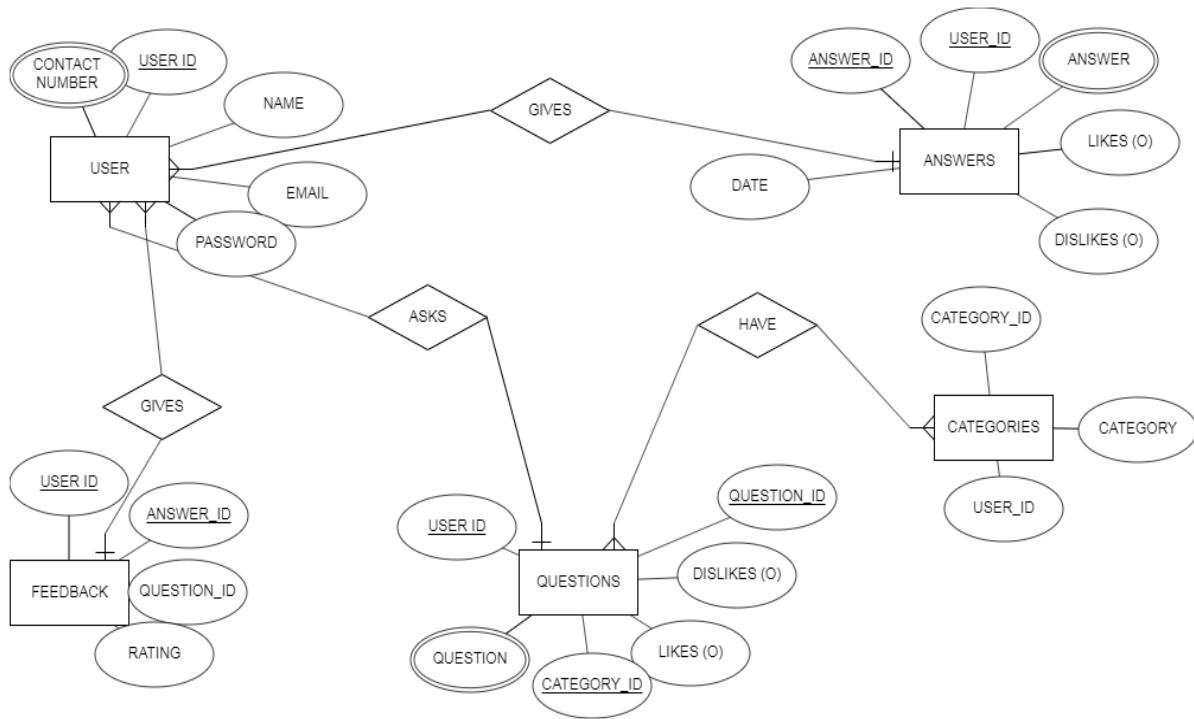


4.4 Activity Diagram





4.5 E-R Diagram



4.6 Data Dictionary

1.User_Authentication				
Sr. No	Column Name	Data Type	Pk/Fk	Constraints
1	U_Id	Varchar	Primary Key	Not Null
2	UName	Varchar		Not Null
3	First_Name	Time		Not Null
4	Last_Name	Varchar		
5	Email	Varchar		Not Null

2.Questionaries				
Sr. No	Column Name	Data Type	Pk/Fk	Constraints
1	Q_Id	Varchar	Primary Key	Not Null
2	C_ID	Varchar		Not Null
3	Question	Varchar		Not Null
4	U_ID	Varchar		
5	Likes	Varchar		Not Null

3.Category				
Sr. No	Column Name	Data Type	Pk/Fk	Constraints
1	C_Id	Varchar	Primary Key	Not Null
2	Categories	Varchar		Not Null
3	U_Id	Varchar	Foreign key references User_Authentication	Not Null

4.Answers				
Sr. No	Column Name	Data Type	Pk/Fk	Constraints
1	A_Id	Varchar	Primary Key	Not Null
2	U_Id	Varchar	Foreign key references Users	Not Null
3	Q_Id	Varchar	Foreign key references Questionaries	Not Null
4	Answer	Varchar		Not Null
5	Likes	Varchar		

5.Admin				
Sr. No	Column Name	Data Type	Pk/Fk	Constraints
1	U_name	Varchar	Primary Key	Not Null
2	Password	Varchar		Not Null
3	Email	Varchar		

5. IMPLEMENTATION DETAILS

5.1 Modules Description

Registration module

This module is used to store user's data to the database and enables the user to login to the system. All the fields in system module contains required validations. User can also navigate to login page if he/she has already registered

Input: User's Information

Output: User Registered and redirect to login page

Processing: validating user's data and then storing them to database

Login module

This module takes user credentials and then verifies it with registered users, if user is not registered the invalid credentials is shown else if they match with database then login user.

Home module

This Module demonstrates 3 Main Functionality.

Firstly , the user can add Category and start the discussion for that topic.

Secondly, the user can ask question in any of the category.

Third , the user can answer to asked questions of the user.

Also, the user will be able to see all the questions and answers in the feed.

Admin module

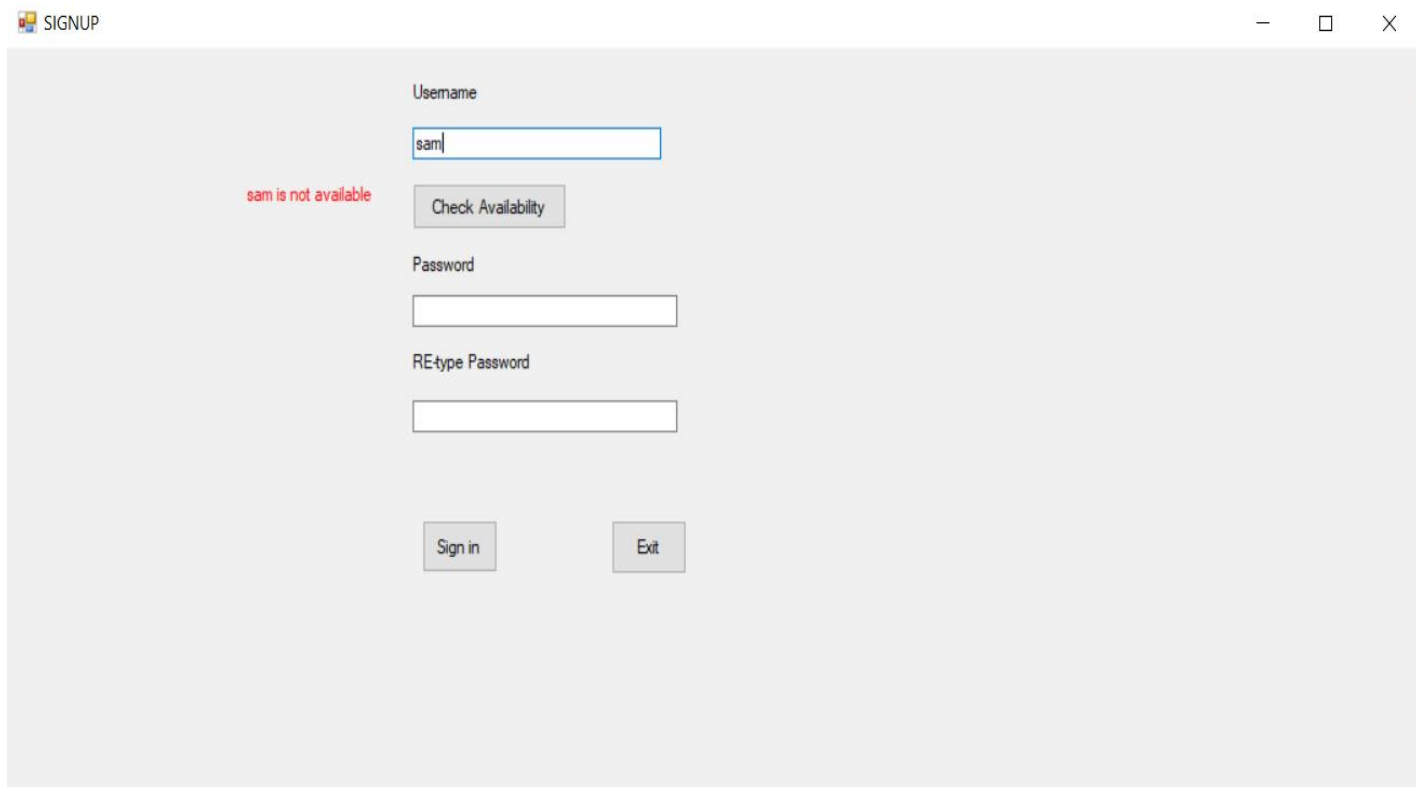
This module is accessed only by Admin. It provides Admin to view User details with all the details and update, delete and add the users. It also provides Admin to Delete Category , Questions and Answers.

Input: User Selection

Output: Corresponding response

6]Testing

We have performed black box testing for this system.

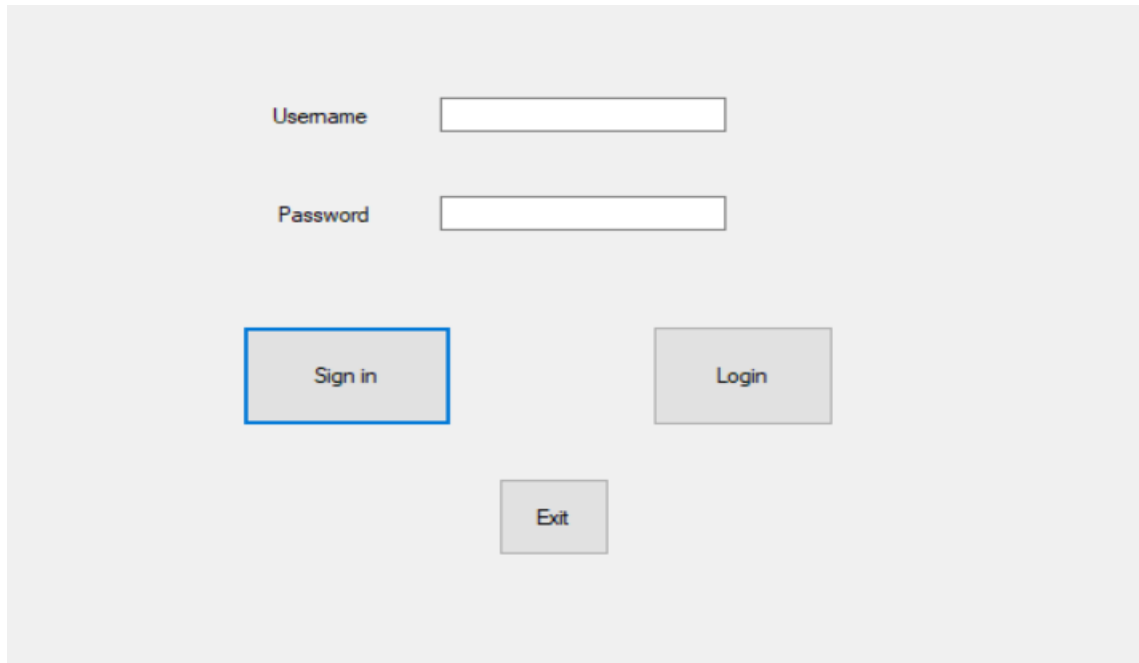


The screenshot shows a web application window titled "SIGNUP". It contains a form with the following elements:

- A "Username" label above a text input field containing the text "sam".
- A red error message "sam is not available" displayed to the left of the input field.
- A "Check Availability" button located below the username input field.
- A "Password" label above an empty text input field.
- A "RE-type Password" label above another empty text input field.
- At the bottom, there are two buttons: "Sign in" and "Exit".

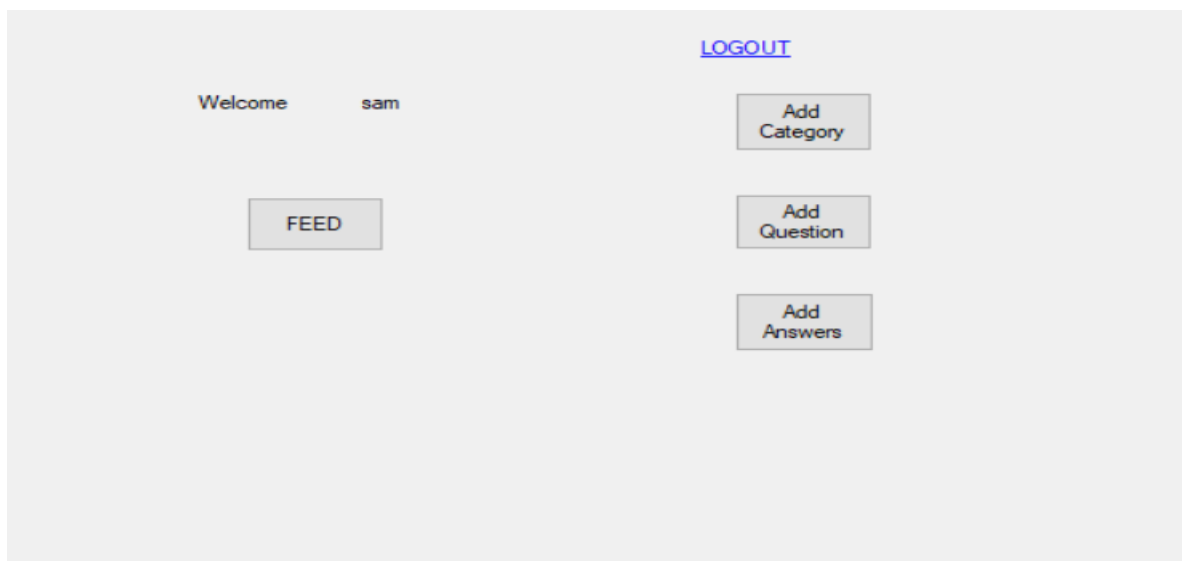
The user should provide proper credentials otherwise he/she will not be able to register in the system.

7] Screenshots



A screenshot of a login interface. It features two input fields: "Username" and "Password". Below these fields are three buttons: "Sign in" (highlighted with a blue border), "Login", and "Exit".

[The Home page which shows Login and gives option to register if not.]



A screenshot of a user dashboard. At the top left, it says "Welcome sam". In the top right corner, there is a blue link labeled "LOGOUT". Below the welcome message is a button labeled "FEED". On the right side, there are three buttons stacked vertically: "Add Category", "Add Question", and "Add Answers".

[Account page of the User after log in.]

sam

Exit

topics

	CategoryId	Category	Link
▶	1	sam	view questions
	2	root	view questions
	3	sammy	view questions
	4	ipl	view questions
	5	COVID	view questions
	6	Lockdown	view questions
	7	External	view questions
	8	OOse	view questions
	9	SOA	view questions
	10	CN	view questions
	11	Placements	view questions
	12	#sessionals	view questions
	13	DDU	view questions
	14	Pandemic	view questions
*			

[List of Topics Open for discussion.]

sam

Exit

Question

Category

options for category

Add Question

[Add Questions]

sam

Select Question

Question

Exit

Add Answer

Answer

It is Extremely dangerous.

[Add Answers to the already asked questions]

8]Conclusion

- User Registration containing all the necessary validations on fields.
- Login
- User Authentication
- Add Category
- Ask Question
- Add Answers

- Admin Add, update, Delete user
- Admin Add , Update , Delete the Category
- Admin Add , Update , Delete the Questions
- Admin Add , Update , Delete the Answers.

After Implementation the whole application was tested with different validations and then have tried the best to remove the loopholes and tried to complete most of the functionalities.

9] Limitations

- The website doesn't have functionality to upvote or downvote for specific question or answer.
- The user is not able to see top rated answers on top as answers which came first are shown above.

Functionalities not Implemented

- The user when ask question can request other users who are specialized in that field to answer.

Future Extension

- Repeated questions not allowed and its checking based on common keywords.
- Multiple language support for Question and answers.

10] Bibliography

1. <https://docs.microsoft.com/en-us/visualstudio/ide/step-1-create-a-windows-forms-application-project?view=vs-2019> = Windows Form Application