

Do-Connect

Capstone Project
C1 - G1

Group Members

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Problem Statement

Do-Connect is a popular Q and A form in which technical and non - technical questions can be asked and answered.

Introduction

- There are many websites where people can ask and answer their questions like stackoverflow, Quora and Askdev etc.
- Do-Connect is also a same Q and A platform where techniques questions was asked and answered.
- Do-Connect features questions and answers over a wide range of topics.
- There are two users in the application :
 1. User
 2. Admin

Objectives & Purpose

The main objective of the project Do-Connect is to create a Q and A platform where users can find their answers with the experts approval.

Functional Requirements

User Stories :

- As a user I should be able to login, Logout and Register into the Application.
- As a user I should be able to ask any question under any topic.
- As a user I should be able to search the question on any string written in search box.
- As a user I should be able to answer any question asked.
- As a user I should be able to answer more than one question and more than one time.
- As a user I should be able to chat with other users.
- As a user I should be able to upload images to refer.

Functional Requirements

Admin Stories :

- As an Admin I should be able to login, Logout and Register into the application.
- As an Admin I should be able to get mail as soon as any new question is asked or any answers given.
- As an Admin I should be able to approve the question and Answer.
- Any question or answer will be visible on the platform only if it is approved.
- As an Admin I should be able to delete inappropriate Questions and Answers.

Tools & Technology

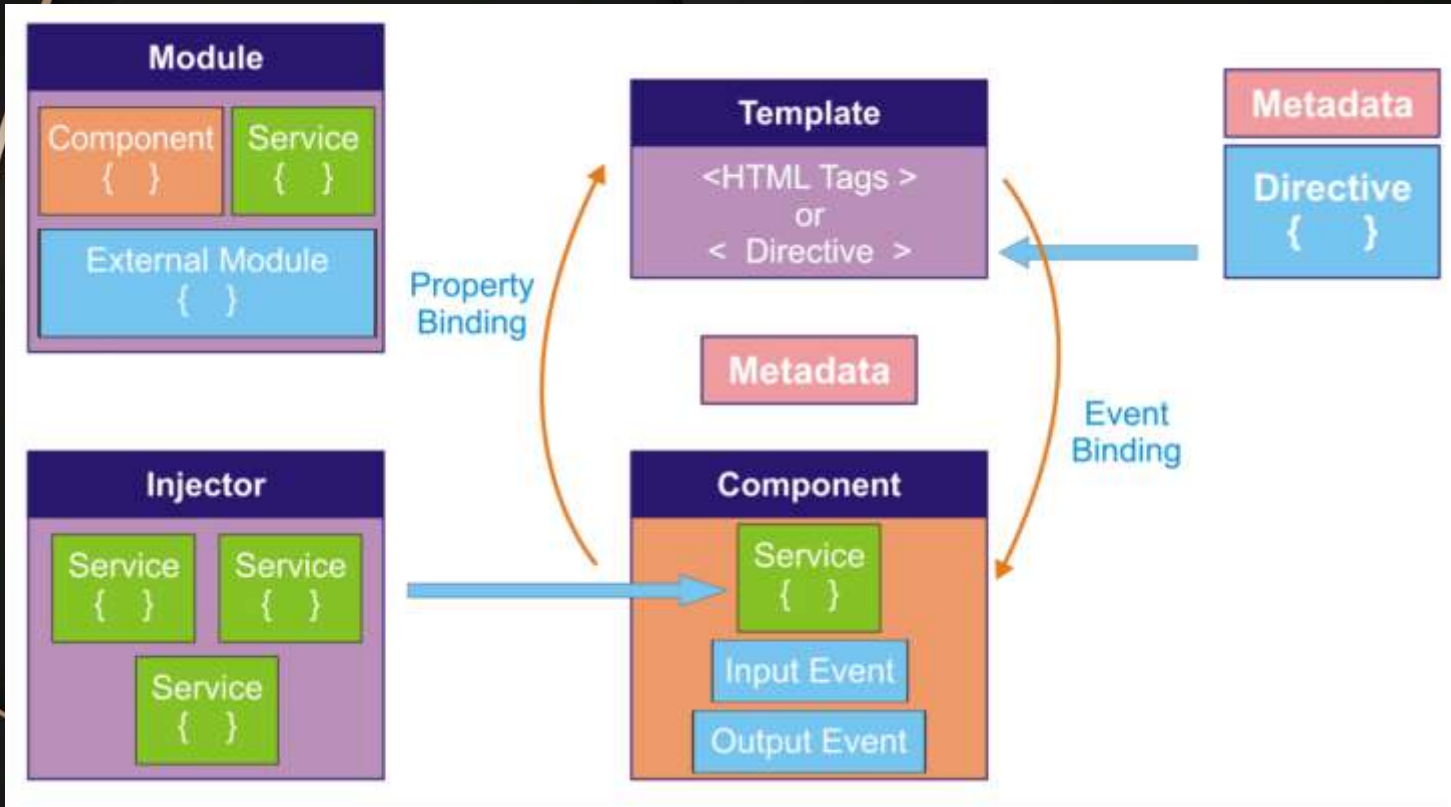
Technology :

- Angular
- Java Spring Boot
- MySql

Tools :

- Spring Tool Suite
- Visual Studio Code
- MySql workbench

Angular Architecture

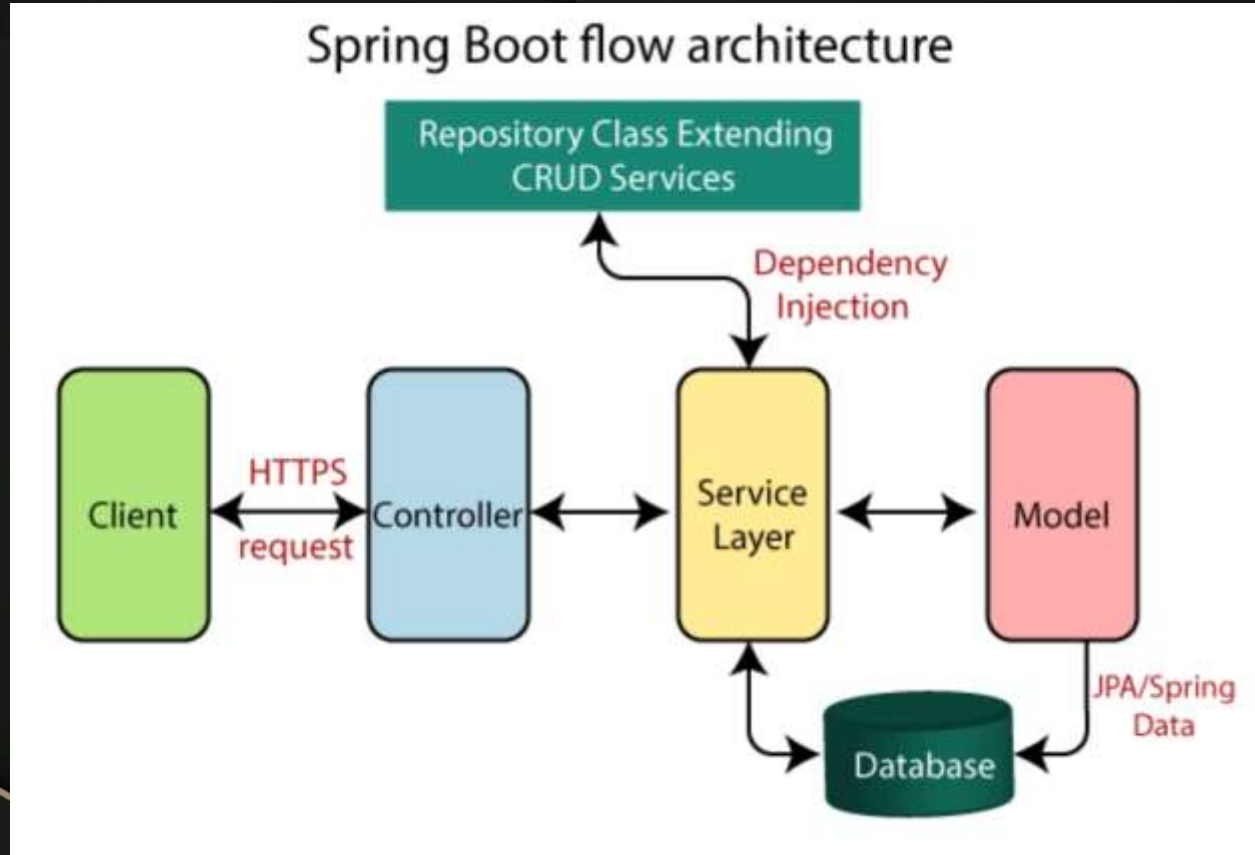


Angular Architecture

There are main Eight blocks of Angular :

- Module
- Component
- Metadata
- Template
- Data Binding
- Service
- Directive
- Dependency Injection

Spring Boot Architecture



Spring Boot Architecture

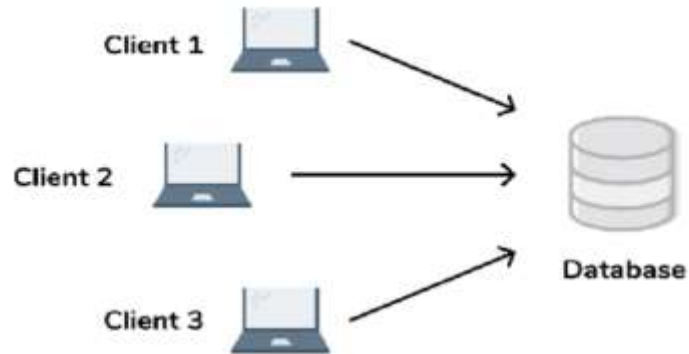
The spring boot consists of the following four layers,

- Presentation Layer – Authentication & Json Translation
- Business Layer – Business Logic, Validation & Authorization
- Persistence Layer – Storage Logic
- Database Layer – Actual Database

Microservice Architecture

- Microservices are a modern approach to software development whereby application code is delivered in small, manageable pieces, independent of others.
- Their small scale and relative isolation can lead to many additional benefits, such as easier maintenance, improved productivity, greater fault tolerance, better business alignment, and more.

Database Architecture

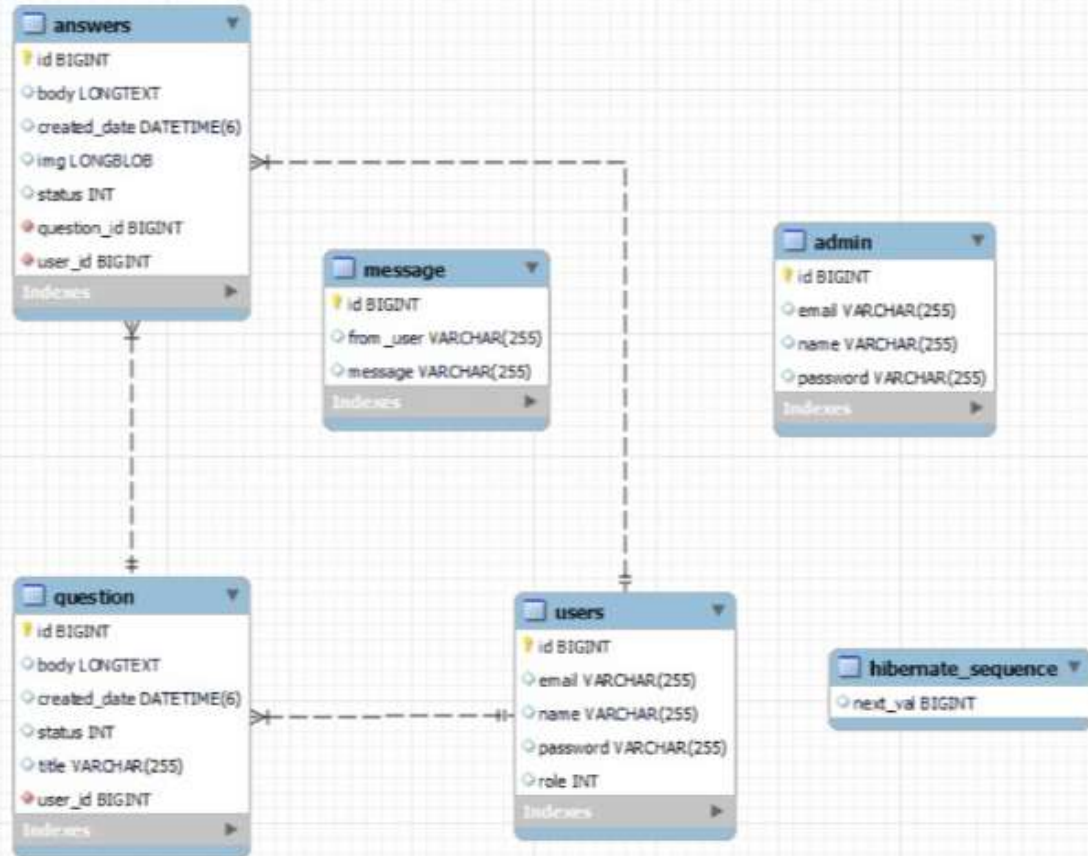


Database Architecture

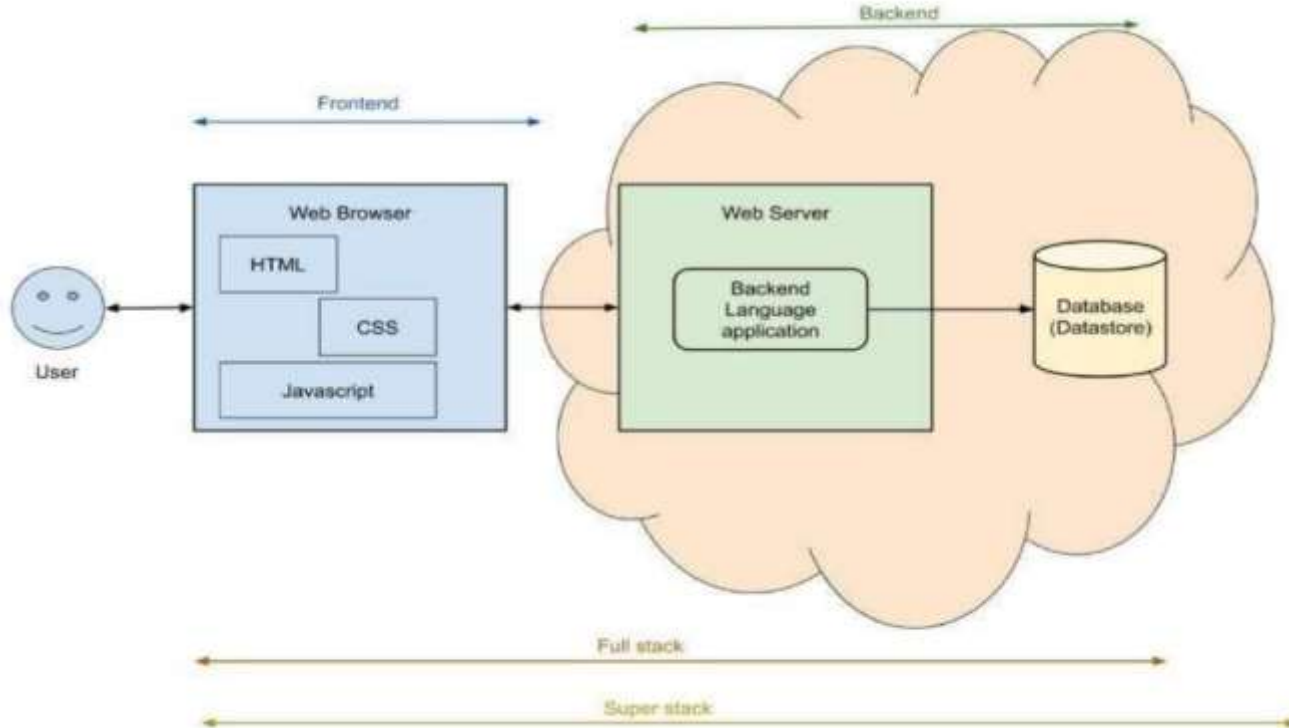
Entities in the Database includes,

- Admin
- Users
- Questions
- Answers
- Message

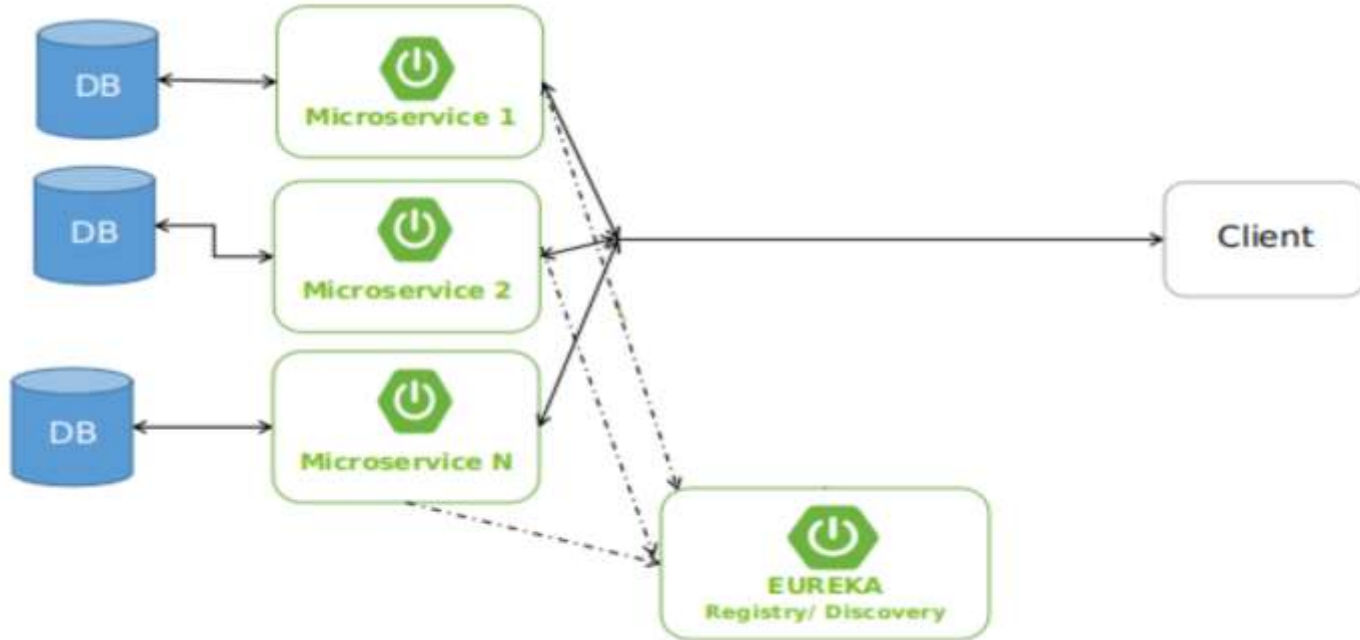
Database Schema



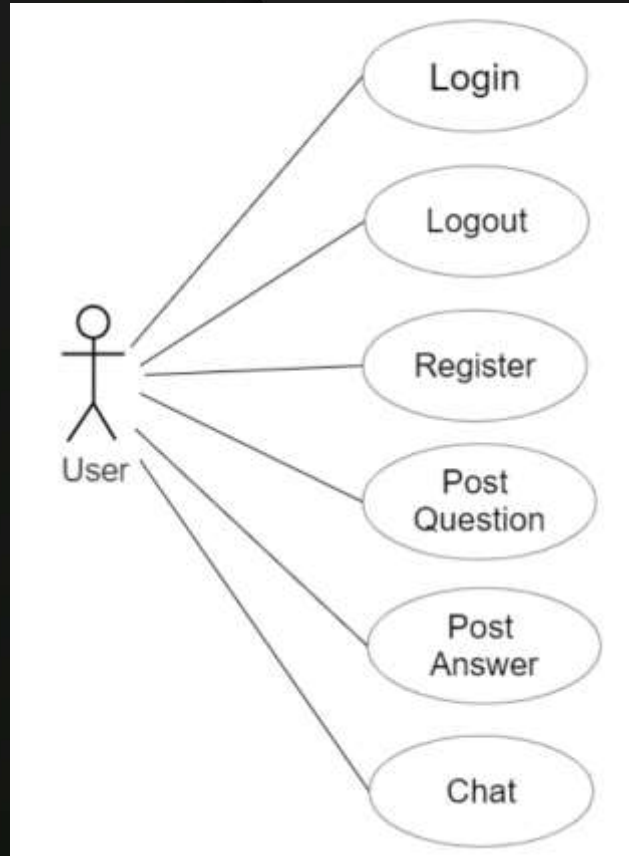
Total Project View



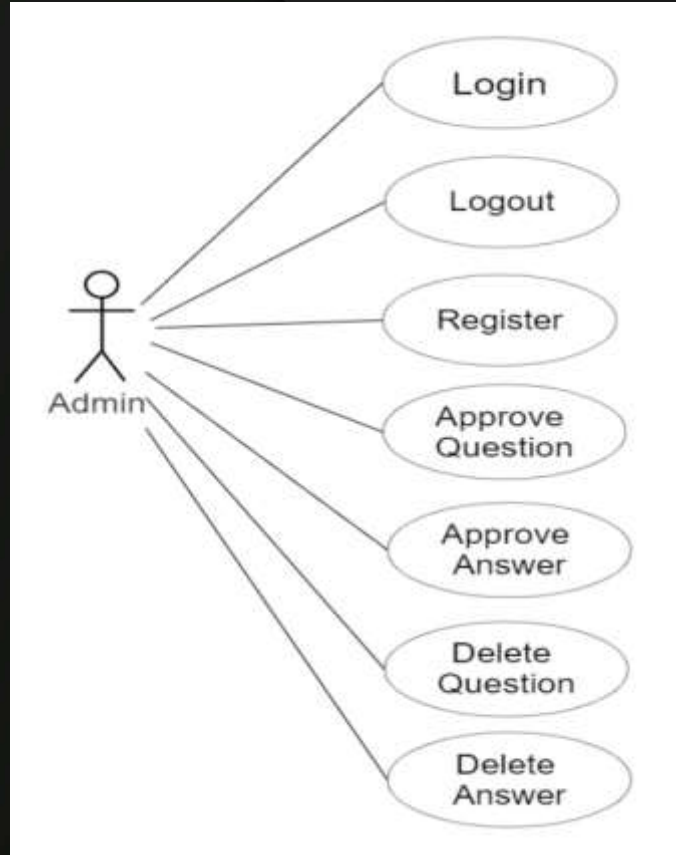
Total Project View



Functionality of User



Functionality of Admin



Backend

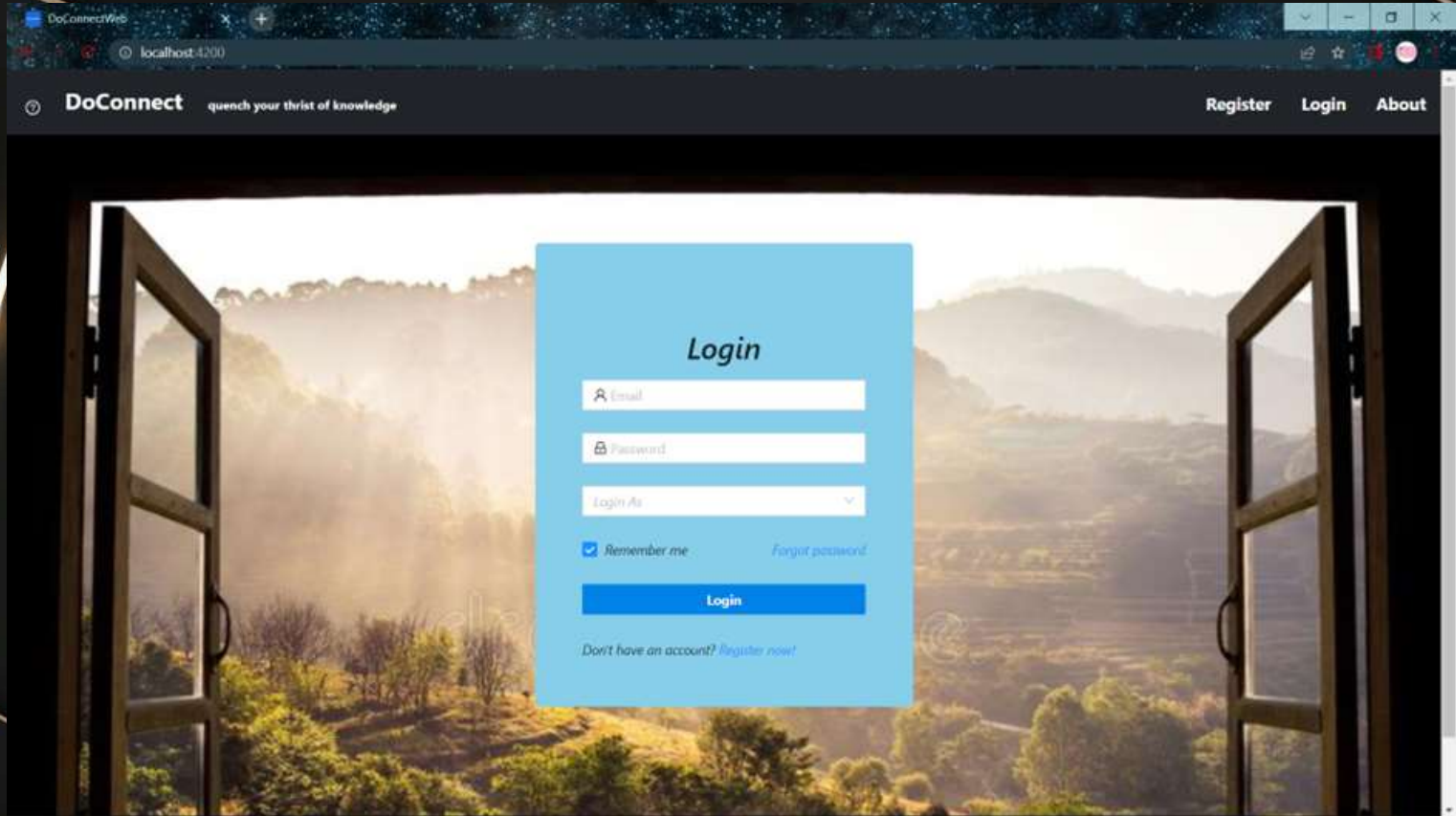
Microservices Used :

- Used Spring Cloud Netflix Eureka Server and Eureka Client

3 Microservices :

- Do-Connect-Server (Server)
- Do-Connect (Microservice-1)
- Do-Connect-Chat-Service (Microservice-2)

Login – for both Admin & User



DoConnectWeb

localhost:4200

DoConnect quench your thirst of knowledge

Register Login About

Login

☒ Remember me [Forgot password](#)

[Login](#)

[Don't have an account? Register now!](#)

Register – User Functionalities

DoConnectWeb

localhost:4200/register

Registration Form

E-mail

Password

Confirm Password

Name






Sign Up As

Register

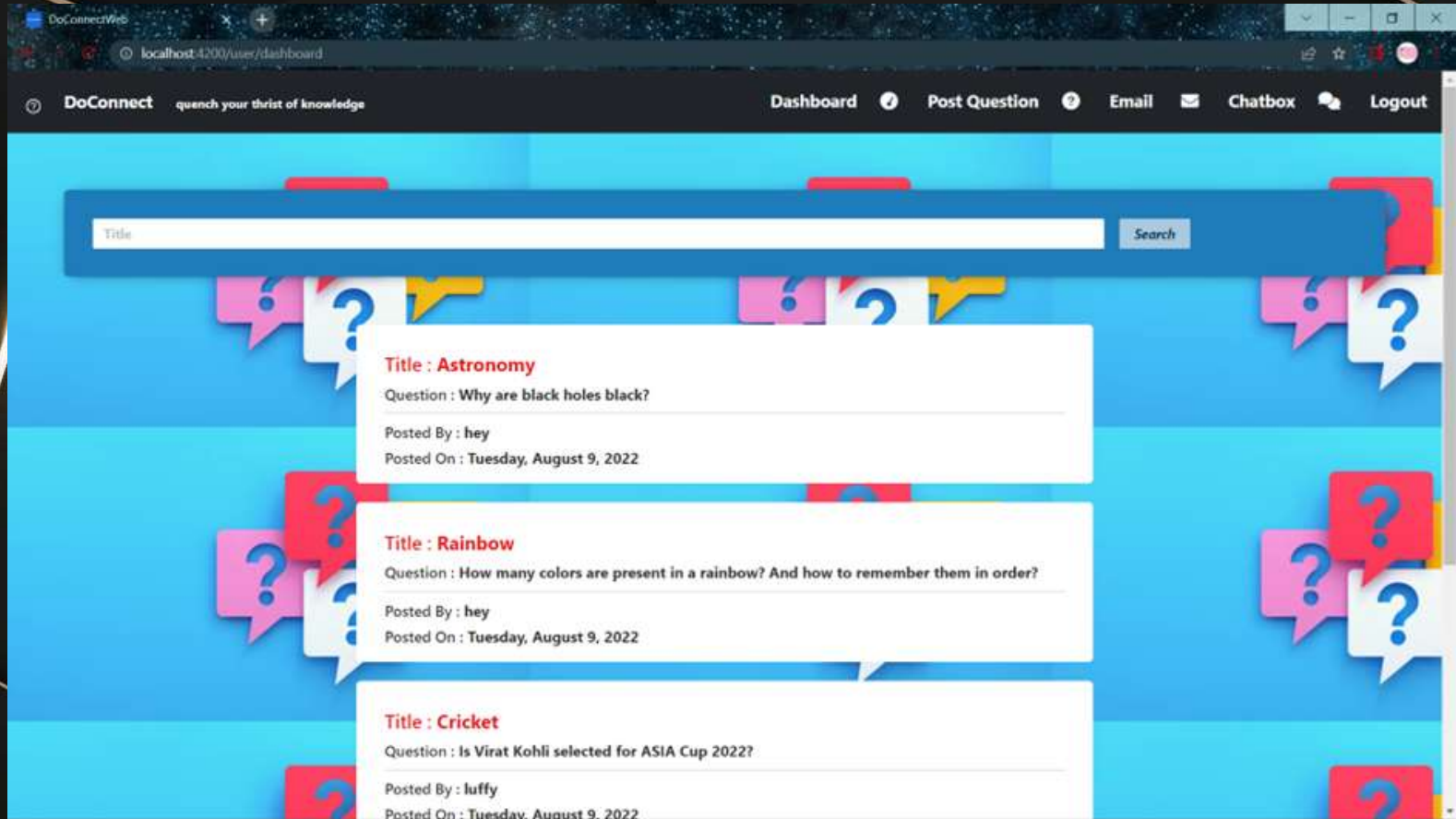
Already have an account? [Login now](#)

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For any assistance mail us at : group1capstone@gmail.com

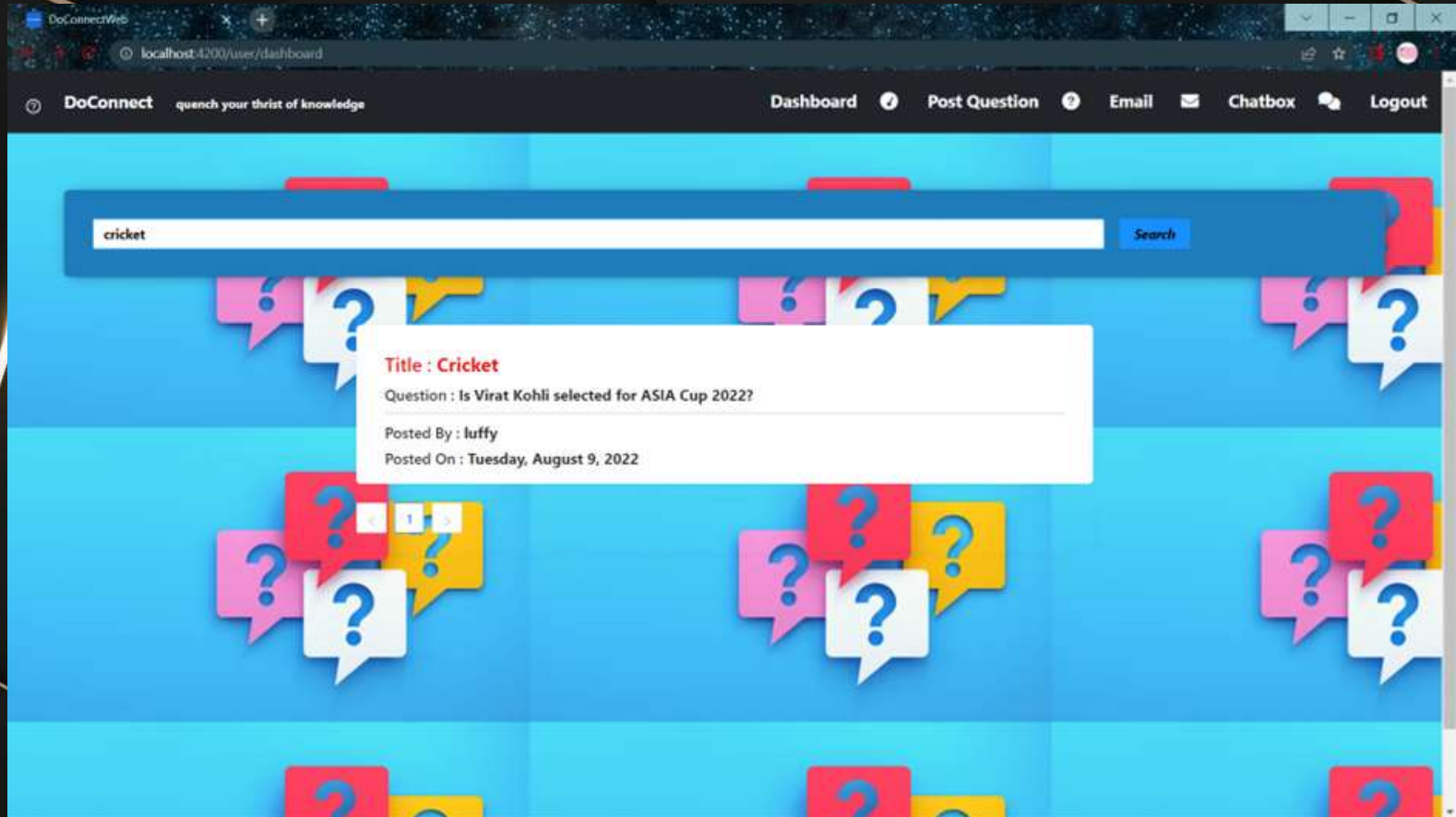
[Privacy Policy](#)

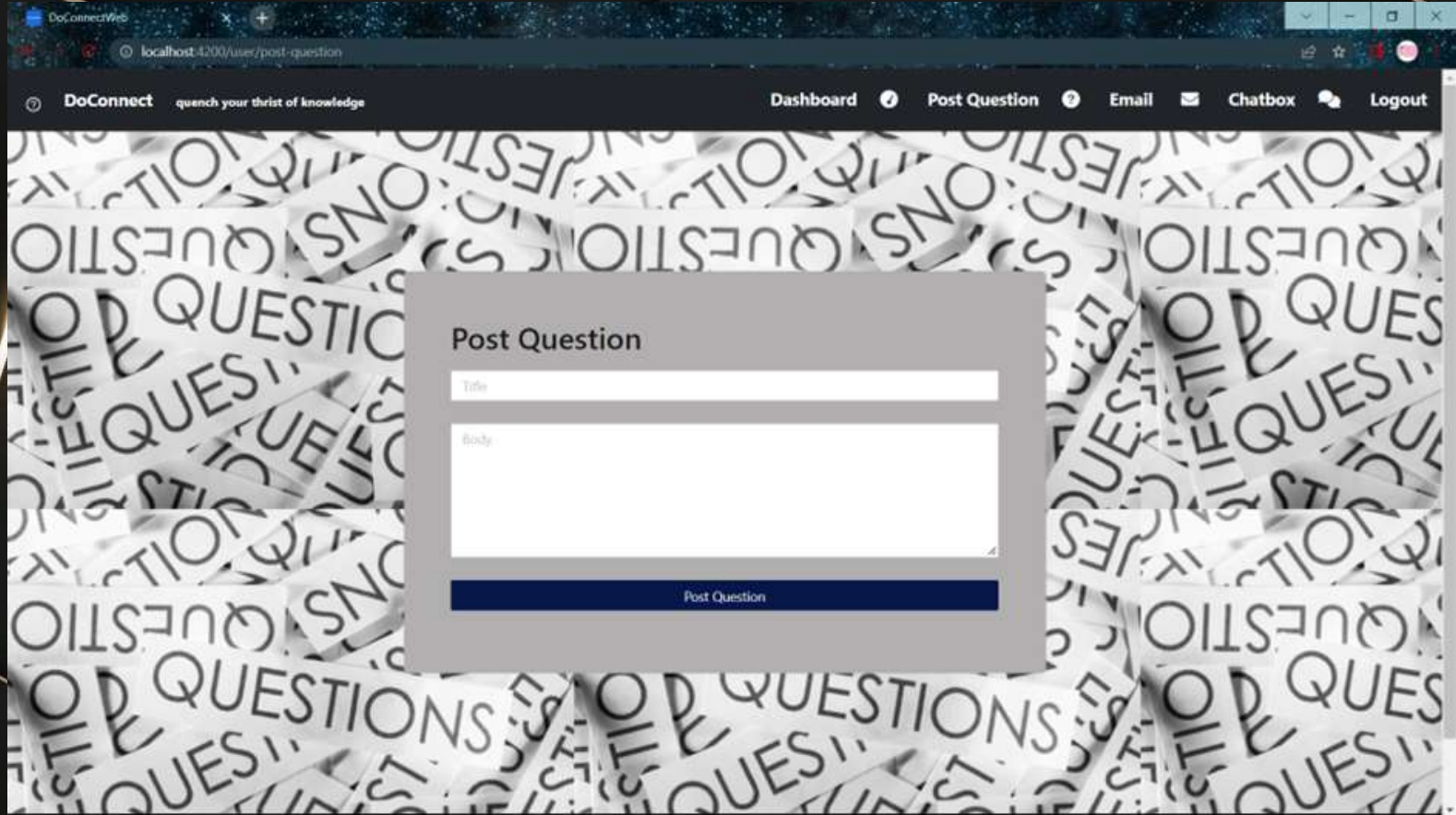
Dashboard – User Functionalities



Search – User Functionalities



Post Question – User Functionalities



The screenshot displays a web browser window with the address bar showing 'localhost:4200/user/post-question'. The page header includes the 'DoConnect' logo with the tagline 'quench your thirst of knowledge' and a navigation menu with links to 'Dashboard', 'Post Question', 'Email', 'Chatbox', and 'Logout'. The main content area features a background pattern of the word 'QUESTIONS' and a central 'Post Question' form. The form consists of a title input field, a larger body text area, and a dark blue 'Post Question' button at the bottom.

DoConnectWeb

localhost:4200/user/post-question

DoConnect quench your thirst of knowledge

Dashboard Post Question Email Chatbox Logout

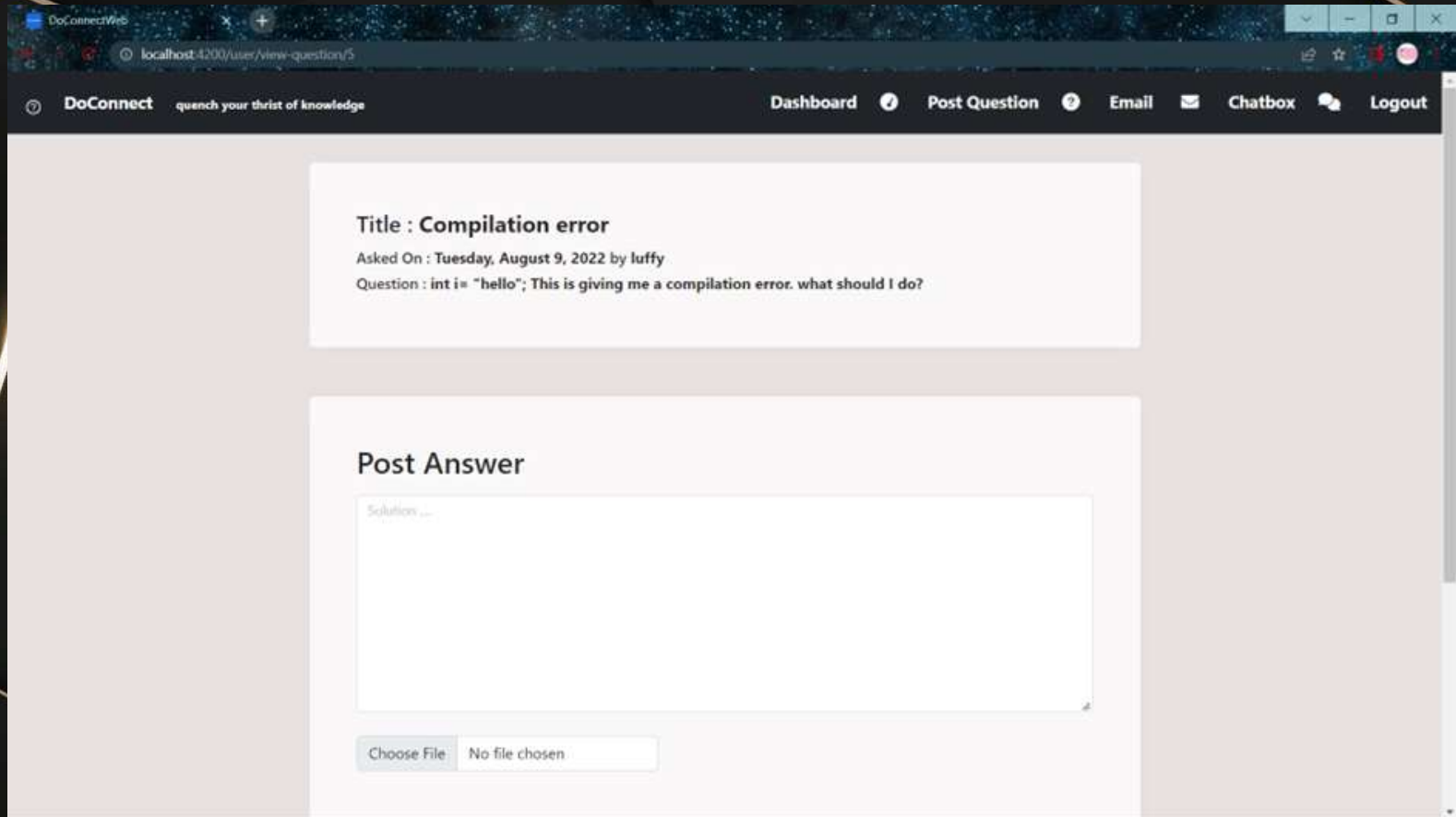
Post Question

Title

body

Post Question

Post Answer – User Functionalities



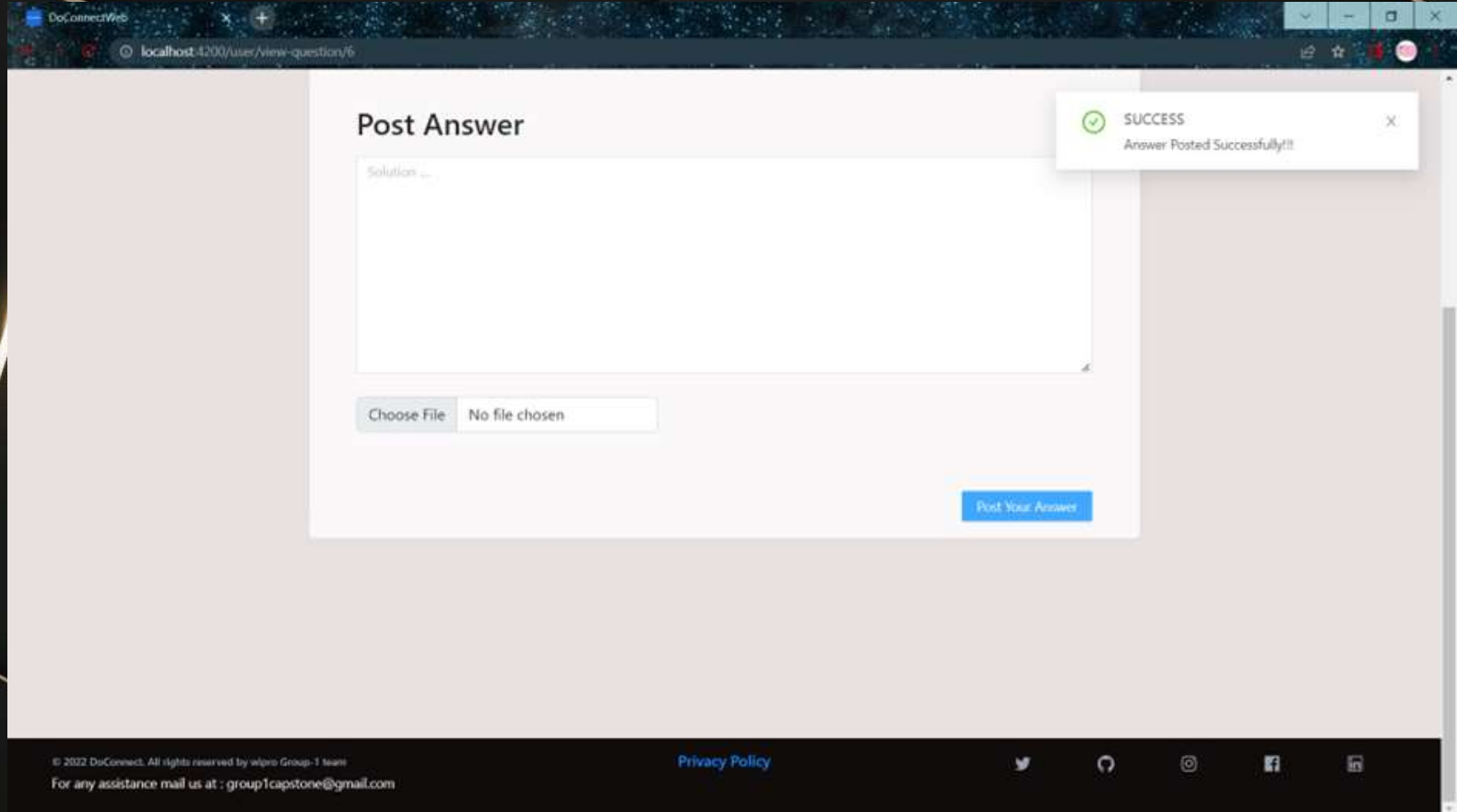
The screenshot shows a web browser window with the URL `localhost:4200/user/view-question/5`. The page has a dark header with the logo "DoConnect" and the tagline "quench your thirst of knowledge". Navigation links include "Dashboard", "Post Question", "Email", "Chatbox", and "Logout".

The main content area displays a question card with the following details:

- Title :** Compilation error
- Asked On :** Tuesday, August 9, 2022 by luffy
- Question :** `int i= "hello";` This is giving me a compilation error. what should I do?

Below the question card is a "Post Answer" section. It features a large text area labeled "Solution" for writing the answer. At the bottom of this section, there is a "Choose File" button and a text input field showing "No file chosen".

Post Answer – User Functionalities



The screenshot shows a web browser window with the address bar displaying 'localhost:4200/user/view-question/6'. The page title is 'DoConnectWeb'. The main content area is titled 'Post Answer' and contains a large text input field labeled 'Solution ...'. Below the text field is a file upload section with a 'Choose File' button and a text box showing 'No file chosen'. At the bottom right of the form is a blue button labeled 'Post Your Answer'. A success message box is overlaid on the right side of the form, displaying a green checkmark icon, the word 'SUCCESS', and the text 'Answer Posted Successfully!!!'. The footer of the page includes copyright information: '© 2022 DoConnect. All rights reserved by wipro Group-1 team', a link to 'Privacy Policy', and social media icons for Twitter, GitHub, Instagram, Facebook, and YouTube. A contact email 'group1capstone@gmail.com' is also provided.

Post Answer

Solution ...

Choose File No file chosen

Post Your Answer

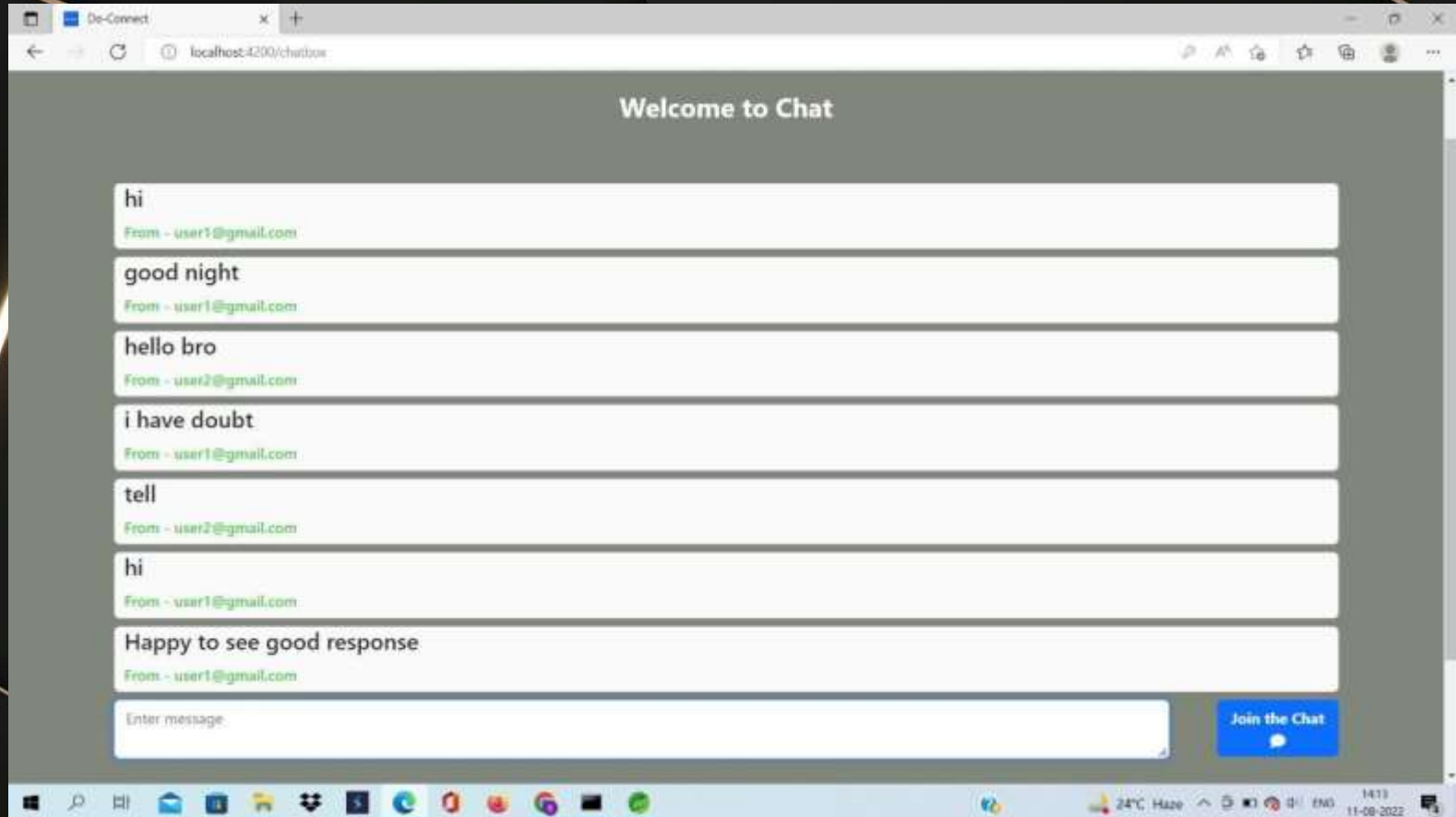
SUCCESS
Answer Posted Successfully!!!

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For any assistance mail us at : group1capstone@gmail.com

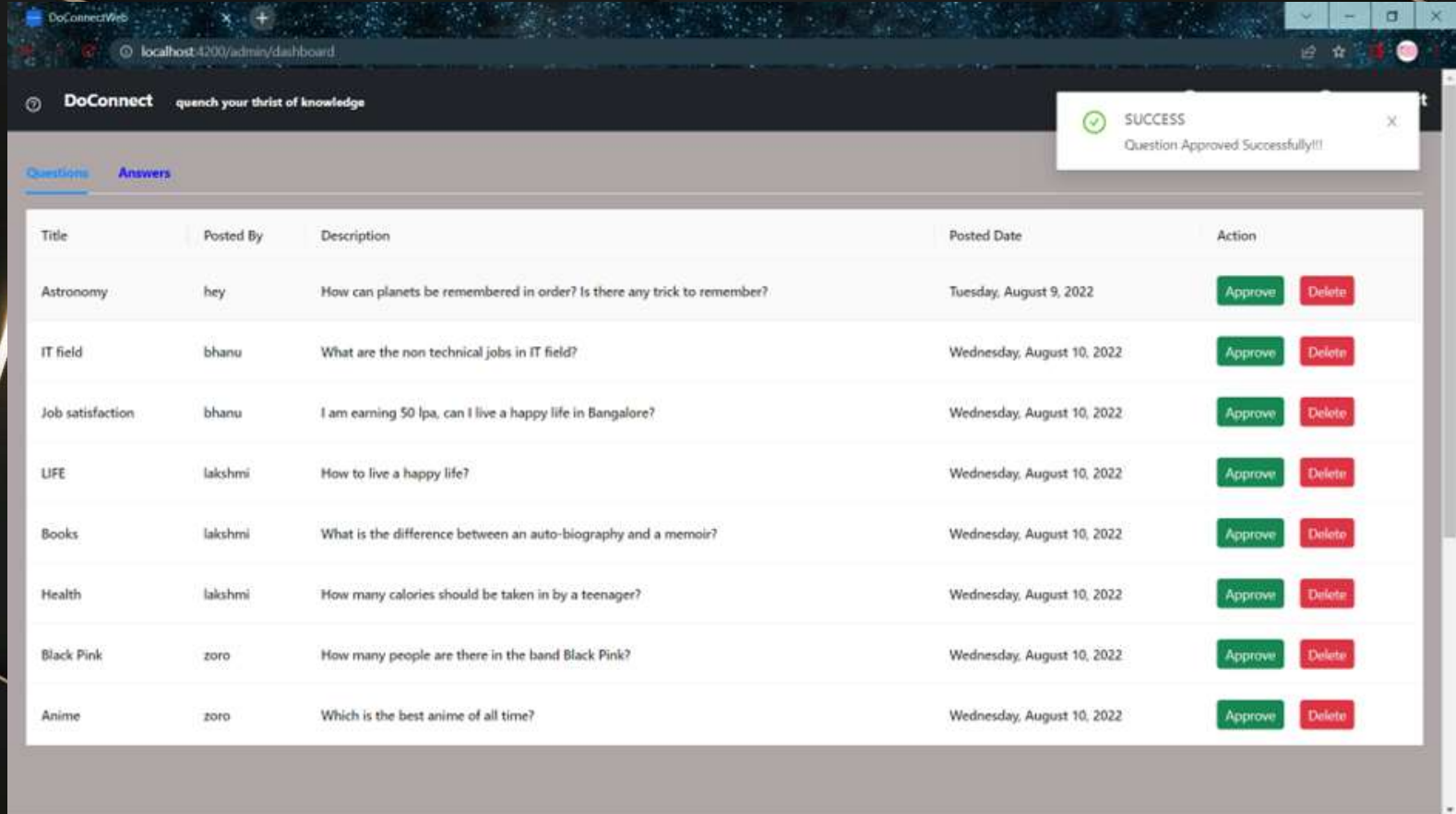
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Chat – User Functionalities



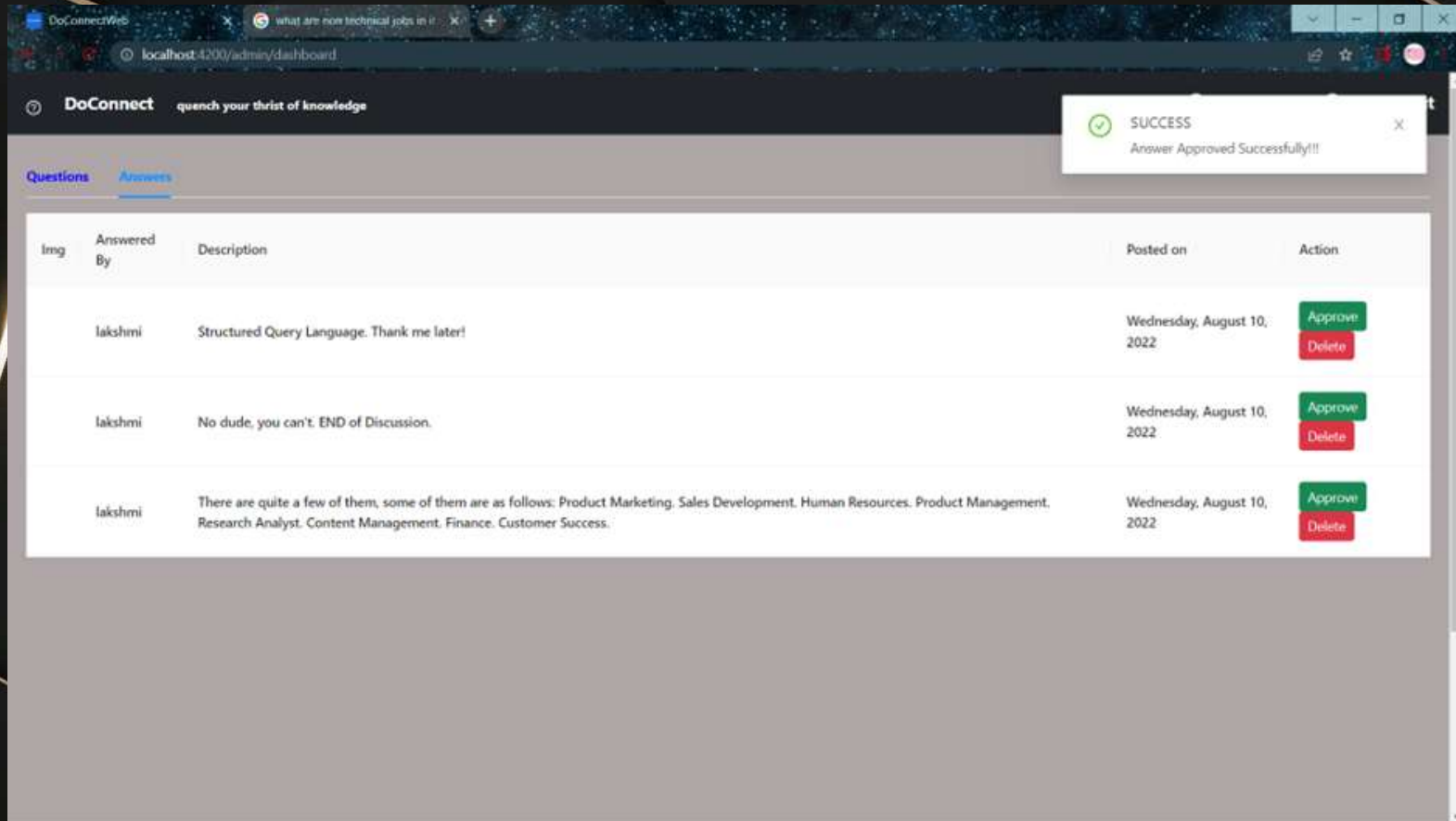
Approve Question – Admin Functionalities



The screenshot displays the DoConnect admin dashboard. At the top, the browser address bar shows 'localhost:4200/admin/dashboard'. The dashboard header includes the DoConnect logo and the tagline 'quench your thirst of knowledge'. A success message box in the top right corner states 'SUCCESS Question Approved Successfully!!!'. Below the header, there are two tabs: 'Questions' (active) and 'Answers'. The main content area features a table with the following columns: Title, Posted By, Description, Posted Date, and Action. The table lists eight questions, each with an 'Approve' button and a 'Delete' button in the Action column.

Title	Posted By	Description	Posted Date	Action
Astronomy	hey	How can planets be remembered in order? Is there any trick to remember?	Tuesday, August 9, 2022	<button>Approve</button> <button>Delete</button>
IT field	bhanu	What are the non technical jobs in IT field?	Wednesday, August 10, 2022	<button>Approve</button> <button>Delete</button>
Job satisfaction	bhanu	I am earning 50 lpa, can I live a happy life in Bangalore?	Wednesday, August 10, 2022	<button>Approve</button> <button>Delete</button>
LIFE	lakshmi	How to live a happy life?	Wednesday, August 10, 2022	<button>Approve</button> <button>Delete</button>
Books	lakshmi	What is the difference between an auto-biography and a memoir?	Wednesday, August 10, 2022	<button>Approve</button> <button>Delete</button>
Health	lakshmi	How many calories should be taken in by a teenager?	Wednesday, August 10, 2022	<button>Approve</button> <button>Delete</button>
Black Pink	zoro	How many people are there in the band Black Pink?	Wednesday, August 10, 2022	<button>Approve</button> <button>Delete</button>
Anime	zoro	Which is the best anime of all time?	Wednesday, August 10, 2022	<button>Approve</button> <button>Delete</button>

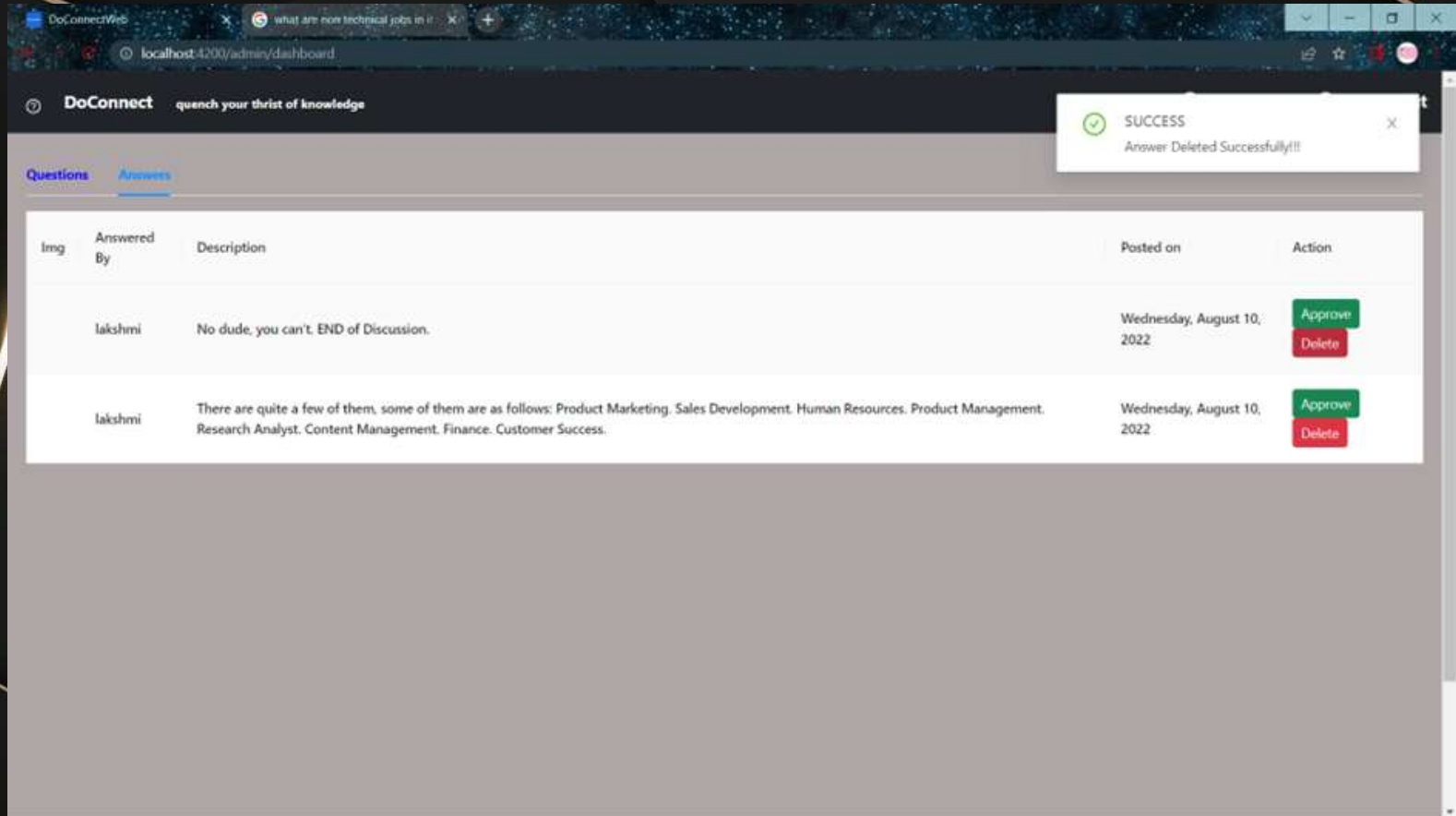
Approve Answer – Admin Functionalities



The screenshot displays the DoConnect admin dashboard. At the top, the browser address bar shows 'localhost:4200/admin/dashboard'. The dashboard header includes the 'DoConnect' logo and the tagline 'quench your thirst of knowledge'. A navigation bar has 'Questions' and 'Answers' tabs, with 'Answers' being the active tab. A success notification box in the top right corner states 'SUCCESS Answer Approved Successfully!!!'. Below this, a table lists three answers submitted by a user named 'lakshmi'. Each row in the table includes an 'Img' placeholder, the 'Answered By' name, the 'Description' of the answer, the 'Posted on' date, and an 'Action' column with 'Approve' and 'Delete' buttons. The first two answers are approved, while the third is still pending approval.

Img	Answered By	Description	Posted on	Action
	lakshmi	Structured Query Language. Thank me later!	Wednesday, August 10, 2022	<button>Approve</button> <button>Delete</button>
	lakshmi	No dude, you can't. END of Discussion.	Wednesday, August 10, 2022	<button>Approve</button> <button>Delete</button>
	lakshmi	There are quite a few of them, some of them are as follows: Product Marketing. Sales Development. Human Resources. Product Management. Research Analyst. Content Management. Finance. Customer Success.	Wednesday, August 10, 2022	<button>Approve</button> <button>Delete</button>

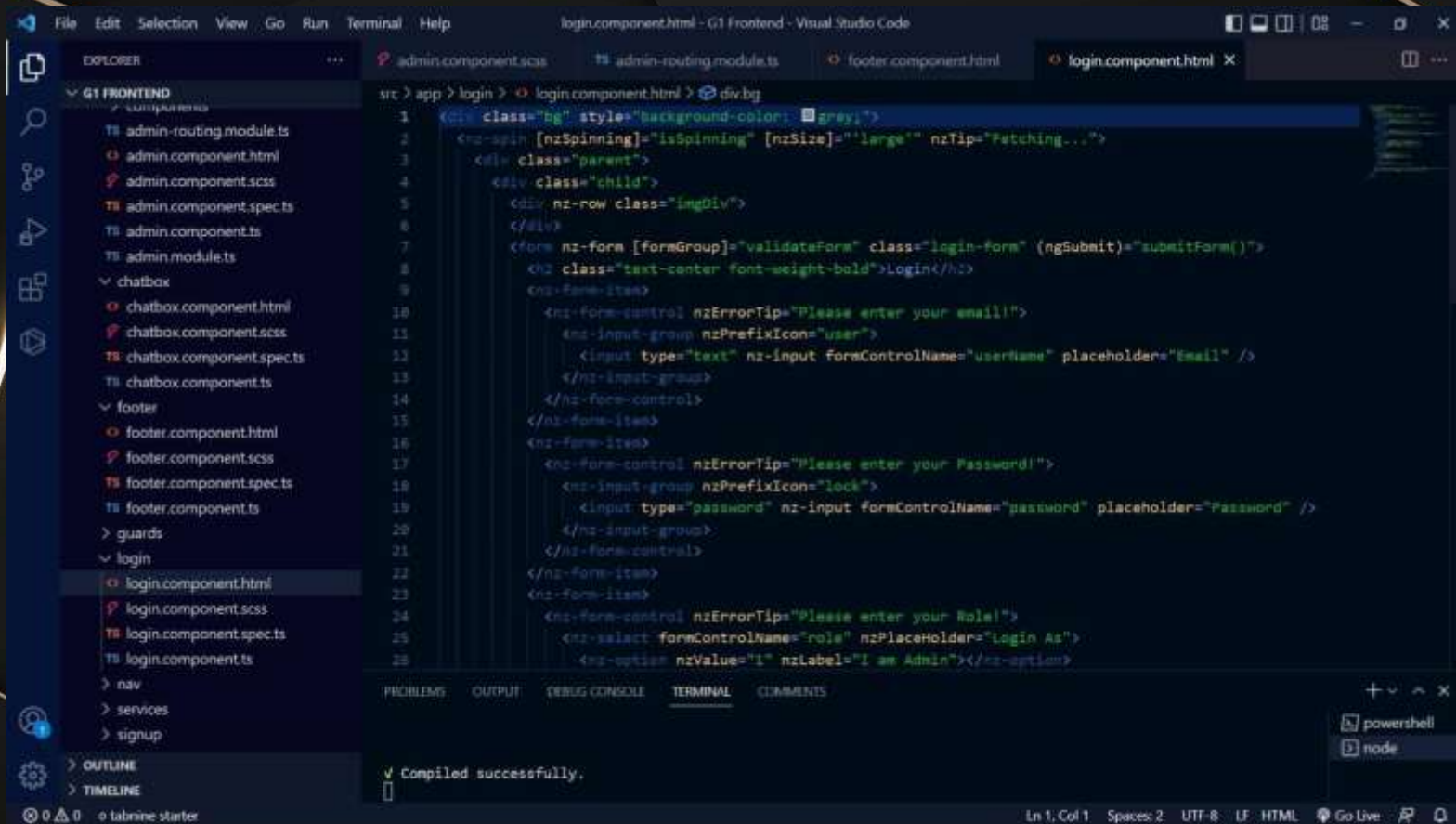
Delete Answer – Admin Functionalities



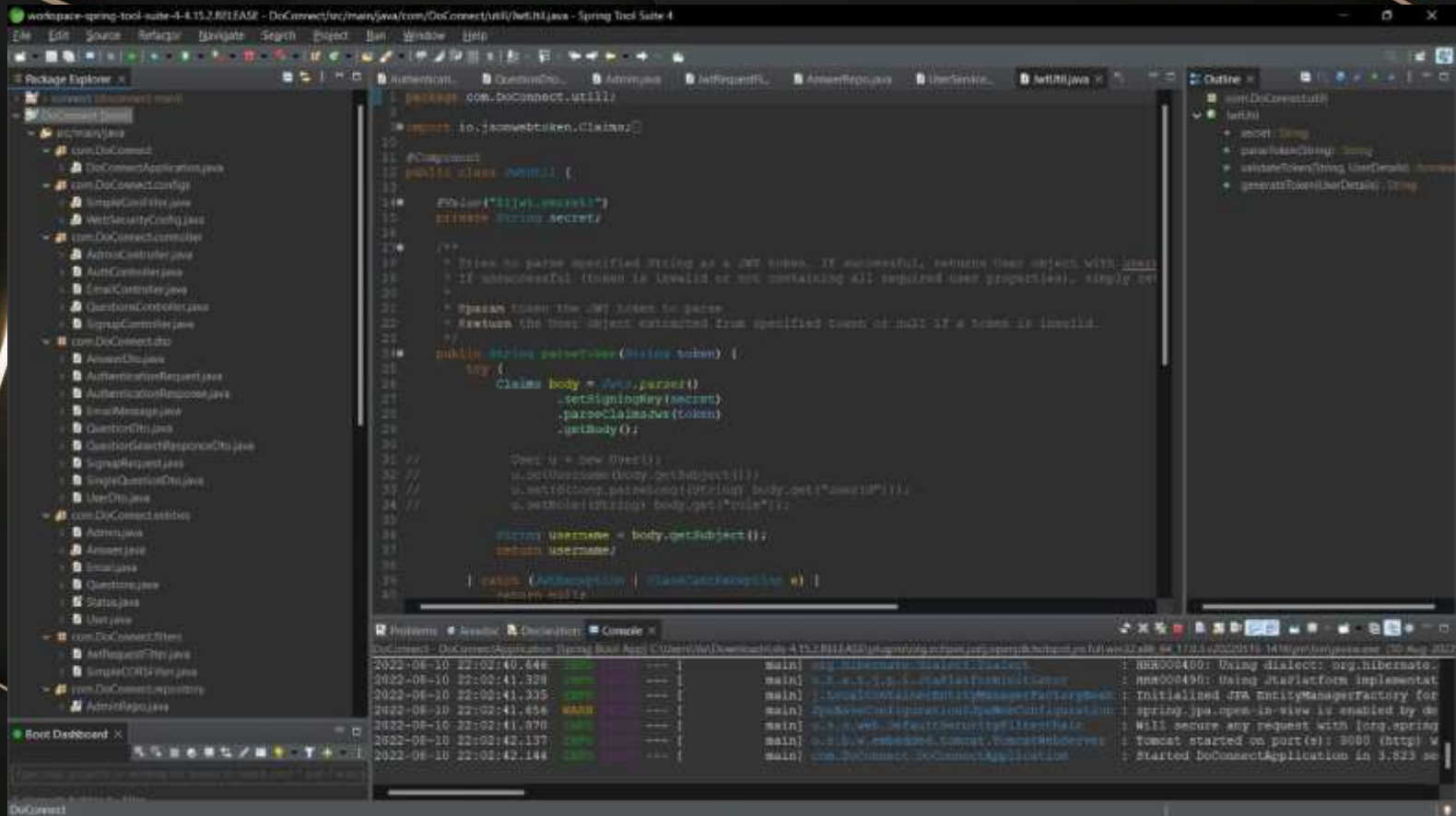
The screenshot displays the DoConnect admin dashboard. The browser address bar shows 'localhost:4200/admin/dashboard'. The dashboard header includes the DoConnect logo and the tagline 'quench your thirst of knowledge'. A success message box in the top right corner states 'SUCCESS Answer Deleted Successfully!!!'. The main content area features a tabbed interface with 'Questions' and 'Answers' tabs. The 'Answers' tab is active, showing a table of user answers.

Img	Answered By	Description	Posted on	Action
	lakshmi	No dude, you can't. END of Discussion.	Wednesday, August 10, 2022	<button>Approve</button> <button>Delete</button>
	lakshmi	There are quite a few of them, some of them are as follows: Product Marketing. Sales Development. Human Resources. Product Management. Research Analyst. Content Management. Finance. Customer Success.	Wednesday, August 10, 2022	<button>Approve</button> <button>Delete</button>

Frontend Structure



Backend Structure



Database - Admin Table

MySQL Workbench interface showing the 'admin' table in the 'docconnect_db' database. The table structure is displayed in the bottom left, and the 'Action Output' log is visible at the bottom.

Table: admin

Columns:

- id: InnoDB AUTO INCREMENTAL (255)
- email: VARCHAR(255)
- name: VARCHAR(255)
- password: VARCHAR(255)

Action Output Log:

#	Time	Action	Message	Duration / Fields
1	21:30:01	SELECT * FROM docconnect_db.user LIMIT 0, 1000	3 rows returned	0.000 sec / 0.000 sec
2	21:31:36	DROP DATABASE 'docconnect'	3 rows affected	0.110 sec
3	21:31:48	DROP DATABASE 'docconnect'	3 rows affected	0.094 sec
4	21:31:58	SELECT * FROM docconnect.docconnect.admin LIMIT 0, 1000	1 row returned	0.018 sec / 0.000 sec
5	21:42:34	SELECT * FROM docconnect.docconnect.message LIMIT 0, 1000	0 rows returned	0.000 sec / 0.000 sec
6	22:01:00	SELECT * FROM docconnect.docconnect.admin LIMIT 0, 1000	1 row returned	0.018 sec / 0.000 sec

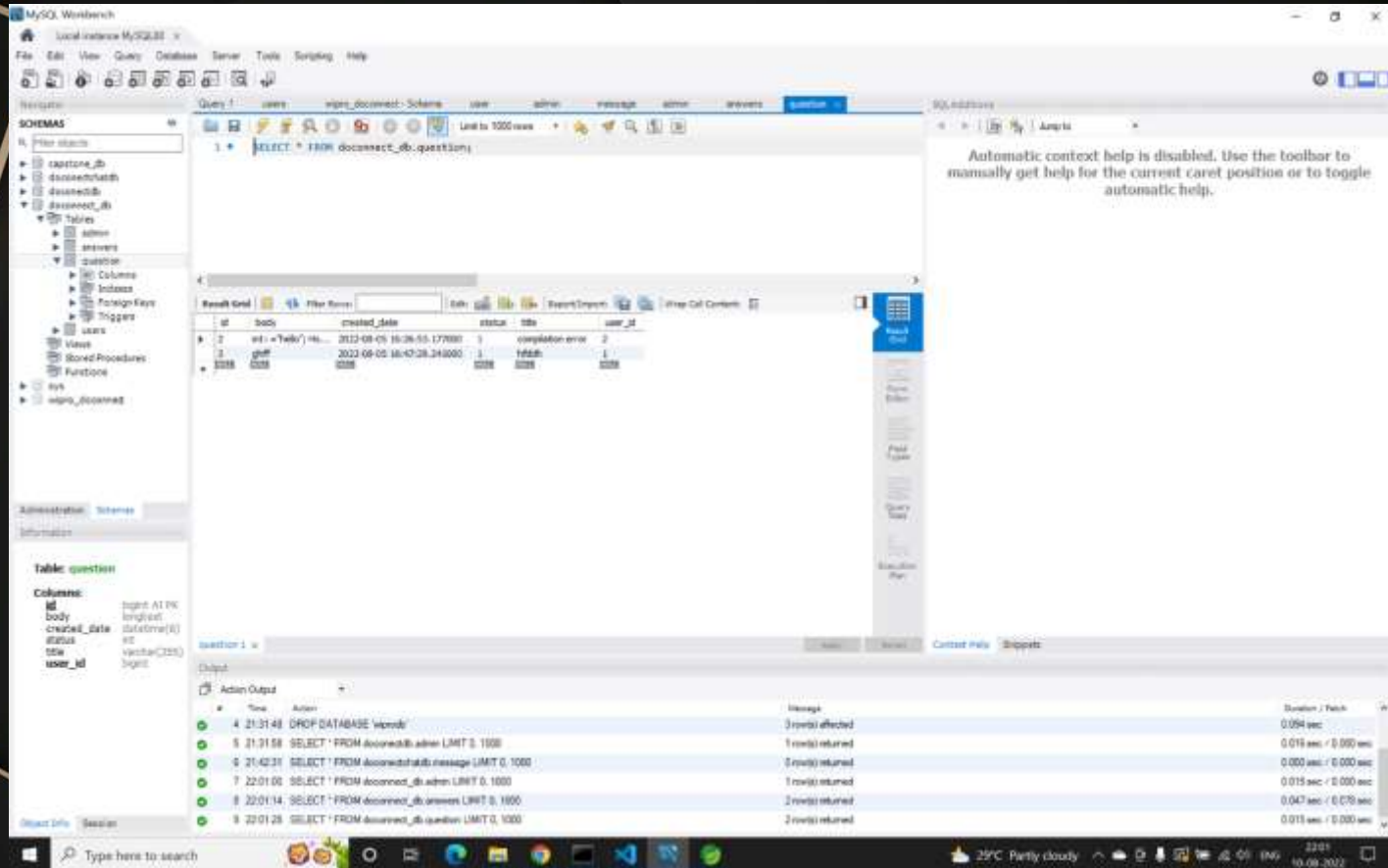
Database – Answers Table

The screenshot displays the MySQL Workbench interface. On the left, the 'SCHEMAS' pane shows the 'document_db' database selected, with the 'answers' table highlighted under the 'Tables' section. The 'Table: answers' pane shows the following columns: id (INTEGER), body (TEXT), created_date (DATETIME), msg (INTEGER), status (INTEGER), question_id (INTEGER), and user_id (INTEGER). The main query window shows the query: `SELECT * FROM document_db.answers;` The results pane displays two rows of data. The bottom pane shows the 'Action Output' with a list of executed queries and their execution times.

id	body	created_date	msg	status	question_id	user_id
1	You need to assign only integer values not str...	2022-08-01 11:12:33.128000	1	1	1	1
2	highlevelconfic: siglec	2022-08-01 16:40:04.587000	1	2	1	1

#	Time	Action	Message	Duration / Patch
3	21:21:39	DROP DATABASE 'document'	0 rows affected	0.110 sec
4	21:21:48	DROP DATABASE 'highlevel'	0 rows affected	0.094 sec
5	21:21:58	SELECT * FROM document_db.admin LIMIT 0, 1000	1 row(s) returned	0.018 sec / 0.000 sec
6	21:42:31	SELECT * FROM document_db.message LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
7	22:01:00	SELECT * FROM document_db.admin LIMIT 0, 1000	1 row(s) returned	0.015 sec / 0.000 sec
8	22:01:14	SELECT * FROM document_db.answers LIMIT 0, 1000	2 row(s) returned	0.047 sec / 0.076 sec

Database - Question Table



MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigation Query 1 users vipco_document: Schema view admin message admin answers question

1 * `SELECT * FROM document_db.question;`

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Table: question

Columns:

- id: bigint(4) PK
- body: longtext
- created_date: datetime(3)
- status: int
- title: varchar(255)
- user_id: bigint

#	id	body	created_date	status	title	user_id
2	1	id = 1	2023-08-05 16:28:55.177000	1	compilation error	2
3	2	id = 2	2023-08-05 16:47:28.248000	1	id = 2	1

question 1 =

Output

#	Time	Action	Message	Duration / Fetch
4	21:31:48	DROP DATABASE vipco	3 rows affected	0.094 sec
5	21:31:58	SELECT * FROM document_db.admin LIMIT 0, 1000	1 row(s) returned	0.019 sec / 0.000 sec
6	21:42:31	SELECT * FROM document_db.message LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
7	22:01:00	SELECT * FROM document_db.admin LIMIT 0, 1000	1 row(s) returned	0.015 sec / 0.000 sec
8	22:01:14	SELECT * FROM document_db.answers LIMIT 0, 1000	2 row(s) returned	0.047 sec / 0.070 sec
9	22:01:28	SELECT * FROM document_db.question LIMIT 0, 1000	2 row(s) returned	0.015 sec / 0.000 sec

25°C Partly cloudy 10.08.2022

Database – Users Table

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigation: Schemas, Filter objects, Tables, Columns, Indexes, Foreign Keys, Triggers, Views, Stored Procedures, Functions, sys, wpms_document

Query 1: `SELECT * FROM document_db.users`

Result Grid:

#	id	email	name	password	role
1	1	mlenke133@gmail.com	Panga Isakades	6d1508f9172b9b4a47c7c9e2354a4c21...	2
2	2	prley@gmail.com	Pony	6d1508f9172b9b4a47c7c9e2354a4c21...	2

Table: users

Columns:

- id: Integer(4) PK, autoIncrement(255)
- email: varchar(255)
- name: varchar(255)
- password: varchar(255)
- role: int

Output:

#	Time	Action	Message	Duration / Fields
6	21:31:58	SELECT * FROM document_db.admin LIMIT 0, 1000	7 rows(s) returned	0.016 sec / 0.000 sec
7	21:42:31	SELECT * FROM document_db.message LIMIT 0, 1000	0 rows(s) returned	0.000 sec / 0.000 sec
8	22:01:06	SELECT * FROM document_db.admin LIMIT 0, 1000	7 rows(s) returned	0.015 sec / 0.000 sec
9	22:01:14	SELECT * FROM document_db.admin LIMIT 0, 1000	2 rows(s) returned	0.047 sec / 0.016 sec
10	22:01:28	SELECT * FROM document_db.question LIMIT 0, 1000	2 rows(s) returned	0.015 sec / 0.000 sec
11	22:01:37	SELECT * FROM document_db.users LIMIT 0, 1000	2 rows(s) returned	0.003 sec / 0.000 sec

25°C Partly cloudy 10.09.2022

Database – Message Table

The screenshot displays the MySQL Workbench interface. The left sidebar shows the 'Schemas' tree with 'disconnect_db' expanded, listing tables: 'admin', 'answers', 'hibernate_sequence', 'message', 'question', and 'user'. The 'message' table is selected, showing its columns: 'id', 'from_user', and 'message'. The main editor shows a query: `SELECT * FROM disconnect_db.message;`. The 'Result Grid' displays the following data:

id	from_user	message
1	user1@gmail.com	hi
2	user1@gmail.com	good night
3	user2@gmail.com	hello bro

The 'Output' tab at the bottom shows the execution log:

Time	Action	Message	Duration / Feeds
21:53:27	DROP DATABASE disconnect_db	4 row(s) affected	2.953 sec
23:02:31	Apply changes to disconnect_db	Changes applied	
23:21:37	SELECT * FROM disconnect_db.admin LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
23:27:26	SELECT * FROM disconnect_db.message LIMIT 0, 1000	3 row(s) returned	0.016 sec / 0.000 sec
23:27:36	SELECT * FROM disconnect_db.hibernate_sequence LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
23:29:01	SELECT * FROM disconnect_db.hibernate_sequence LIMIT 0, 1000	1 row(s) returned	0.016 sec / 0.000 sec

Database – Hibernate sequence Table

The screenshot displays the MySQL Workbench interface. On the left, the 'SCHEMAS' pane shows the 'doconnect_db' database with tables 'admin', 'message', and 'hibernate_sequence'. The 'hibernate_sequence' table is selected, showing its columns and indexes. The main editor shows a SQL query: `SELECT * FROM doconnect_db.hibernate_sequence;`. The 'Result Grid' shows one row with the value '5'. The 'Action Output' pane at the bottom shows the execution of several SQL statements, including the creation of the database and the sequence table.

Table: hibernate_sequence

Columns: next_val, bigint

SQL Query:

```
SELECT * FROM doconnect_db.hibernate_sequence;
```

Result Grid:

next_val
5

Action Output:

Time	Action	Message	Duration / Fetch
21:51:27	DROP DATABASE 'doconnect_db';	4 row(s) affected	2.953 sec
23:52:31	Apply changes to doconnect_db	Changes applied	
23:21:37	SELECT * FROM doconnect_db.admin LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
23:27:26	SELECT * FROM doconnect_db.message LIMIT 0, 1000	3 row(s) returned	0.016 sec / 0.000 sec
23:27:36	SELECT * FROM doconnect_db.hibernate_sequence LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
23:28:01	SELECT * FROM doconnect_db.hibernate_sequence LIMIT 0, 1000	1 row(s) returned	0.016 sec / 0.000 sec



Thank You