DoConnect

Team Members:
- Jaddu Sai Prasad
- Tapas Kumar Saha
- Ravi Kant Prasad
- Komal Anil Lawand
- Devashish Ashok Pathrabe

Under the supervision of
Mr. Javeed Mohammed Husnuddin
Mentor
Great Learning

Capstone Project

31st August 2022

Acknowledgement

Contents

Introduction

- DoConnect is a Q & A application in which users can ask questions and those questions can be answered by other users.

- DoConnect also allows users to chat with each other on a group chat.

- The application supports users with two different roles: User and Admin.

- The admins are informed via email whenever a new question or answer is added by a user.

- Admins can either approve or delete the newly added questions or answers by a user.

- Admins can also manage other users on the application.

- DoConnect Application is developed using Angular, Spring Boot and MySQL.

- There is no restriction as to how many admins are supported.

Objectives

- Provide a platform to users where they can freely ask and answer questions on a wide range of topics.
- Provide a platform to users where they can filter questions on certain topics or by a query string.
- Provide support for Admins to monitor the platform so that users do not abuse it; by allowing Admins to approve or delete any question or answer, a user submits.
- Create a User experience where users can achieve their target action with minimal effort.
- Provide a responsive UI which supports multiple screen sizes and is mobile friendly.
- Provide secure access to the platform by use of JWT.
- Provide users an ability to chat with other users.
- Provide users an ability to add images to questions and answers for reference.
- Keep admins up to date with their approval queues by sending them email whenever a new question or answer is added to the platform by any user.

Sequence Diagram
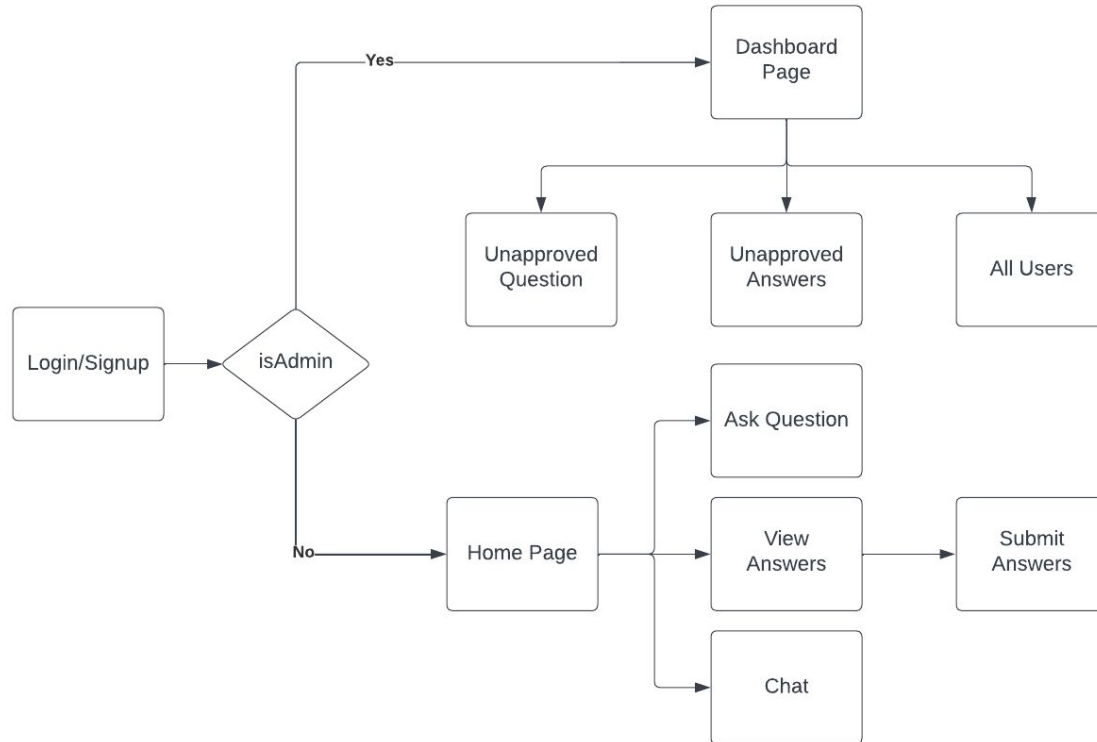
Entity–Relationship Model

messages
- 🔑 id BIGINT
- 🔷 message VARCHAR(512)
- 🔷 posted_at DATETIME
- 🔷 posted_by VARCHAR(255)
- Indexes ▶

users
- 🔑 id BIGINT
- 🔷 email VARCHAR(512)
- 🔷 is_admin BIT(1)
- 🔷 name VARCHAR(512)
- 🔷 password VARCHAR(128)
- 🔷 username VARCHAR(512)
- Indexes ▶

logout_token
- 🔑 id BIGINT
- 🔷 token VARCHAR(512)
- Indexes ▶

answers
- 🔑 id BIGINT
- 🔷 answer VARCHAR(1024)
- 🔷 approved_by VARCHAR(255)
- 🔷 images VARCHAR(255)
- 🔷 is_approved BIT(1)
- 🔷 posted_at DATETIME
- 🔷 posted_by VARCHAR(255)
- 🔶 question_id BIGINT
- Indexes ▶

questions
- 🔑 id BIGINT
- 🔷 approved_by VARCHAR(255)
- 🔷 images VARCHAR(255)
- 🔷 is_approved BIT(1)
- 🔷 posted_at DATETIME
- 🔷 posted_by VARCHAR(255)
- 🔷 question VARCHAR(1024)
- 🔷 topic VARCHAR(255)
- Indexes ▶

Class Diagram

Use Case Diagram
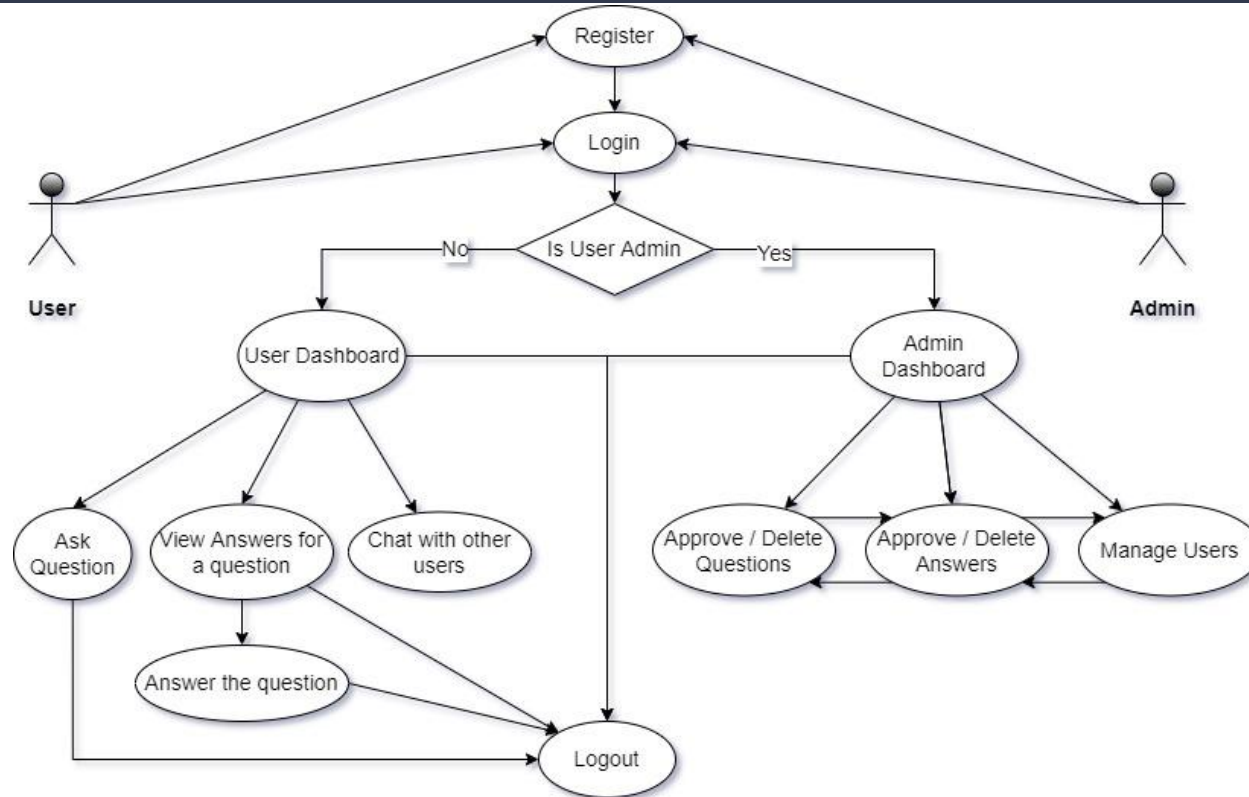
Technologies Used

Frontend

- Angular
- TypeScript
- Node JS
- NPM for managing packages
- VSCode (IDE)
- Angular CLI
- Bootstrap 5 (for styling pages)
- HTML5
- CSS
- JWT (for authentication)

Backend

- Spring Boot
- Spring Data JPA
- Spring Boot Starter Mail
- Maven for managing packages
- Java JDK
- Tomcat Server
- MySQL Database
- JWT (for authentication and authorization)

Microservices

DoConnect Main Microservice

Responsible for:

- User authentication and authorization
- Storing and retrieving questions, answers, users and images.
- Sending email to admins.

Available Controllers:

- AnswerController
- AuthenticationController
- ChatController
- ImageController
- QuestionController
- UserController

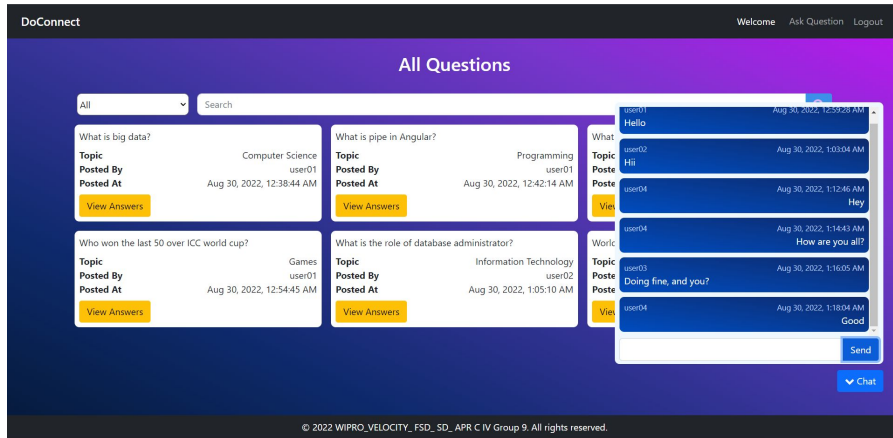## DoConnect Chat Microservice

Responsible for:

- Storing and retrieving user group chats.

Available Controller:

- MessageController

DoConnect Application

User Screen
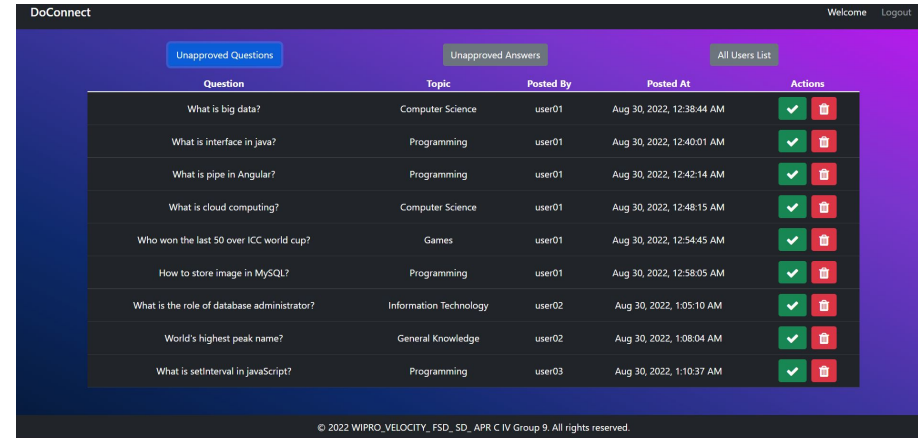
Admin Screen

More screenshots in appendix...

Conclusion

DoConnect is a Q & A application in which users can ask questions and answer questions asked by other users. Users can also upload images to questions and answers for reference. It allows users to search questions based on a particular topic or by a query string. It informs admins via email whenever a new question or answer is added to DoConnect. It allows admins to approve / delete questions and approve / delete answers and manage users. It allows users to chat with other users. JWT is used for user authentication and authorization.

Thank You

Appendix

All Questions

Which is the tallest statue in the world?

Topic	General Knowledge
Posted By	TestUser01
Posted At	Aug 30, 2022, 4:05:02 PM

As an Actor, what experience do you have in developing accents for specific roles?

Topic	Actors
Posted By	TestUser01
Posted At	Aug 30, 2022, 4:08:03 PM

Who invited Babur to invade India?

Topic	History
Posted By	TestUser01
Posted At	Aug 30, 2022, 4:12:14 PM

Which movie according to you is the best movie you have seen and why?

Topic	Movies
Posted By	TestUser01
Posted At	Aug 30, 2022, 4:14:56 PM

Which Television is best to buy under Rs. 50000/- budget?

Topic	Television
Posted By	TestUser01
Posted At	Aug 30, 2022, 4:16:11 PM

What is the recipe for making pizza?

Topic	Food
Posted By	TestUser01
Posted At	Aug 30, 2022, 4:17:45 PM

Register

Username*

Name*

Email*

Password*

Role*

User

Register

Already registered? Click to Login

DoConnect

localhost:4200 says

TestUser02 has been registered successfully as a user. Proceed to login to get your authorization token.

OK

Register

Username*

TestUser02

Name*

Test User 02

Email*

testuser02@gmail.com

Password*

••••••••

Role*

User

Register

Already registered? Click to Login

Login

Username*

Password*

Login

New user? Click to register

All Questions

| All ⌄ | Search | 🔍 |

Which is the tallest statue in the world?

Topic General Knowledge
Posted By TestUser01
Posted At Aug 30, 2022, 4:05:02 PM

View Answers

As an Actor, what experience do you have in developing accents for specific roles?

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View Answers

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⌃ Chat

All Questions

All   Search   🔍

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Topic   History
Poste
Poste

Vie

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View Answers

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Topic   Television
Posted By   TestUser01
Posted At   Aug 30, 2022, 4:16:11 PM

View Answers

What

Topic
Poste
Poste

Vie

| TestUser02 | Aug 30, 2022, 4:33:40 PM |
| | Hi There! |

| TestUser01 | Aug 30, 2022, 4:34:21 PM |
| Hi TestUser02. How are you doing? | |

| TestUser02 | Aug 30, 2022, 4:34:39 PM |
| | I am doing great. Thanks for asking. How about you? |

| TestUser01 | Aug 30, 2022, 4:35:14 PM |
| I am also doing fine. Thanks for asking. What are planning to do over the weekend? | |

| TestUser02 | Aug 30, 2022, 4:36:10 PM |
| | I am planning to go to Ramtek for a picnic with family. What about you? |

Send

⌄ Chat

DoConnect

Welcome TestUser02   Ask Question   Logout

All Questions

All ▼

Search   🔍

All
Actors
Algebra
Applications
Arts
Books
Climate Change
Comedy / Humour
Commerce
Computer Science
Current Affairs
Electronics
Engineering
Food
Games
General
General Knowledge
History
Hobbies
Humanity

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∧ Chat

All Questions

General Knowledge ▼

Search 🔍

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to   🔍

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Topic	Television
Posted By	TestUser01
Posted At	Aug 30, 2022, 4:16:11 PM

View Answers

⌃ Chat

Ask Question

Topic*

General Knowledge

Question*

Which is the tallest statue in the world?

Images

Choose File bucket.png

Only '.png' and '.jpeg' are supported

Submit

Action Required: Approval needed for newly added question

noreplydoconnect@gmail.com

to me

4:12 PM (0 minutes ago)

Dear Admin,

A new question has been added to DoConnect application. Please visit the application to either approve or delete the newly added question.

DoConnect Bot

Auto generated email. Please do not reply.

↩ Reply   ↱ Forward

What is the recipe for making pizza?

Topic	Food
Posted By	TestUser01
Posted At	Aug 30, 2022, 4:17:45 PM
Approved By	Devashish

Other Answers

Take a dough kneading plate and add all-purpose flour to it. Next, add salt and baking powder in it and sieve the flour once. Then, make a well in the centre and add 1 teaspoon of oil to it. On the other hand, take a little warm water and mix the yeast in it along with 1 teaspoon of sugar. Mix well and keep aside for 10-15 minutes. The yeast will rise in the meantime. Once the yeast has risen, add it to the flour knead the dough nicely using some water. Keep this dough aside for 4-6 hours. Then knead the dough once again. Now, the pizza dough is ready.

Posted By	TestUser02
Posted At	Aug 30, 2022, 4:44:12 PM
Approved By	Devashish

Your Answer

Images

Choose File No file chosen

Only '.png' and '.jpeg' are supported

Submit

Preheat the oven at 180 degree Celsius. Now, is the time to make the pizza base when the dough is ready. Dust the space a little using dry flour and take a large amount of the pizza dough. Using a rolling pin, roll this dough into a nice circular base. (Note: Make sure that the circular base is even at all ends.) Once you have made the base, use a fork and prick the base with it so that the base doesn't rise and gets baked nicely. Put it into the preheated oven and bake it 10 minutes. Now, your pizza base is ready.

Posted By	TestUser02
Posted At	Aug 30, 2022, 4:47:57 PM
Approved By	Devashish

Now, wash the capsicum and slice it thinly in a bowl. Then, peel the onions and cut thin slices
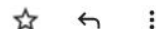
Action Required: Approval needed for newly added answer Inbox ×

noreplydoconnect@gmail.com
to me

4:39 PM (1 minute ago)

Dear Admin,

A new answer has been added to DoConnect application for question - 'Which is the tallest statue in the world?'. Please visit the application to either approve or delete the newly added question.

DoConnect Bot

Auto generated email. Please do not reply.

DoConnect

Welcome TestUser02   Ask Question   Logout

localhost:4200 says

You have been successfully logged out.

OK

All ⌄ | Search 🔍

Which is the tallest statue in the world?

Topic	General Knowledge
Posted By	TestUser01
Posted At	Aug 30, 2022, 4:05:02 PM

View Answers

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Posted At	Aug 30, 2022, 4:08:03 PM

View Answers

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View Answers

What is the recipe for making pizza?

Topic	Food
Posted By	TestUser01
Posted At	Aug 30, 2022, 4:17:45 PM

View Answers

⌃ Chat

DoConnect

localhost:4200 says

Devashish has been registered successfully as an admin. Proceed to login to get your authorization token.

OK

Register

Username*

Devashish

Name*

Devashish Pathrabe

Email*

devashishpathrabe@gmail.com

Password*

••••••••

Role*

Admin

Register

Already registered? Click to Login

Welcome Devashish   Logout

Unapproved Questions   Unapproved Answers   All Users List

Question	Topic	Posted By	Posted At	Actions
Which is the tallest statue in the world?	General Knowledge	TestUser01	Aug 30, 2022, 4:05:02 PM	✔ 🗑
As an Actor, what experience do you have in developing accents for specific roles?	Actors	TestUser01	Aug 30, 2022, 4:08:03 PM	✔ 🗑
Who invited Babur to invade India?	History	TestUser01	Aug 30, 2022, 4:12:14 PM	✔ 🗑
Which movie according to you is the best movie you have seen and why?	Movies	TestUser01	Aug 30, 2022, 4:14:56 PM	✔ 🗑
Which Television is best to buy under Rs. 50000/- budget?	Television	TestUser01	Aug 30, 2022, 4:16:11 PM	✔ 🗑
What is the recipe for making pizza?	Food	TestUser01	Aug 30, 2022, 4:17:45 PM	✔ 🗑

Unapproved Questions   Unapproved Answers   All Users List

Question	Answer	Posted By	Posted At	Actions
Which is the tallest statue in the world?	Statue of Unity in India is the tallest statue in the world.	TestUser01	Aug 30, 2022, 4:39:41 PM	✔ 🗑
Who invited Babur to invade India?	Ibrahim Lodi	TestUser01	Aug 30, 2022, 4:40:58 PM	✔ 🗑
Who invited Babur to invade India?	Ibrahim Lodi	TestUser02	Aug 30, 2022, 4:41:27 PM	✔ 🗑
Which is the tallest statue in the world?	Statue of Unity	TestUser02	Aug 30, 2022, 4:42:48 PM	✔ 🗑
What is the recipe for making pizza?	Take a dough kneading plate and add all-purpose flour to it. Next, add salt and baking powder in it and sieve the flour once. Then, make a well in the centre and add 1 teaspoon of oil to it. On the other hand, take a little warm water and mix the yeast in it along with 1 teaspoon of sugar. Mix well and keep aside for 10-15 minutes. The yeast will rise in the meantime. Once the yeast has risen, add it to the flour knead the dough nicely using some water. Keep this dough aside for 4-6 hours. Then knead the dough once again. Now, the pizza dough is ready.	TestUser02	Aug 30, 2022, 4:44:12 PM	✔ 🗑
Which Television is best to buy under Rs. 50000/-budget?	1. Xiaomi Mi TV 5 Pro 65-inch Ultra HD 4K Smart QLED TV 2. Realme RMV2001 55 inch SLED 4K TV 3. OnePlus 55-Inch U Series 4K LED Android TV (55U1) Share	TestUser02	Aug 30, 2022, 4:45:44 PM	✔ 🗑
Which movie according to you is the best movie you have seen and why?	Léon: The Professional, featuring Natalie Portman in her debut role, tells the unlikely story of a hitman (Jean Reno) who takes an orphan girl (Portman) under his wing after her family is killed by a corrupt DEA agent.	TestUser02	Aug 30, 2022, 4:46:50 PM	✔ 🗑

Unapproved Questions

Unapproved Answers

All Users List

Username	Name	Email	Role	Action
TestUser01	Test User 01	testuser01@gmail.com	User	🗑️
Devashish	Devashish Pathrabe	devashishpathrabe@gmail.com	Admin	🗑️
TestUser02	Test User 02	testuser02@gmail.com	User	🗑️