CAPSTONE PROJECT

WIPRO NGA - .NET FULL STACK ANGULAR

FY26 – BATCH C2

# SARAVANAN M

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#### **MENTOR**

# JYOTI S PATIL

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#### INTRODUCTION

The rise of technology and online learning has increased the need for platforms where people can share knowledge and solve problems together. **DoConnect** is a community-driven Q&A platform, similar to Stack Overflow, built as a capstone project to demonstrate full-stack development skills.

It supports two roles: **User** and **Admin**. Users can register, post questions, give answers, upload images, and search content. Admins moderate by approving/rejecting posts and managing accounts, ensuring quality and security.

#### PROBLEM STATEMENT

DoConnect is a Q&A platform where users can ask and answer questions related to various technical topics. The application has two types of users:

- ADMIN
- USER

#### **OBJECTIVE**

The objective of the DoConnect project is to design and implement a community-driven Question & Answer platform that enables effective knowledge sharing and problem-solving. The system aims to provide secure user participation, efficient content management, and role-based access control while showcasing full-stack development skills through a modern technology stack and best software engineering practices.



#### **SORTWARE REQUIREMENTS**

#### LANGUAGES USED:

- ANGULAR
- ASP.NET
- C#
- TYPESCRIPT
- SQL

#### **IDE USED:**

- VS CODE
- SSMS
- SWAGGER
- GITHUB



#### **HARDWARE REQUIREMENTS**

Processor : Intel Core i5 (or equivalent AMD)

RAM : 8 GB minimum (16 GB recommended for

smooth multitasking with IDEs, DB, and server)

• Storage : 250 GB SSD (for faster build, run, and DB

operations

Graphics : Integrated graphics sufficient (no heavy GPU

required)

Network : Stable internet connection (for Git, package)

managers, and API testing)

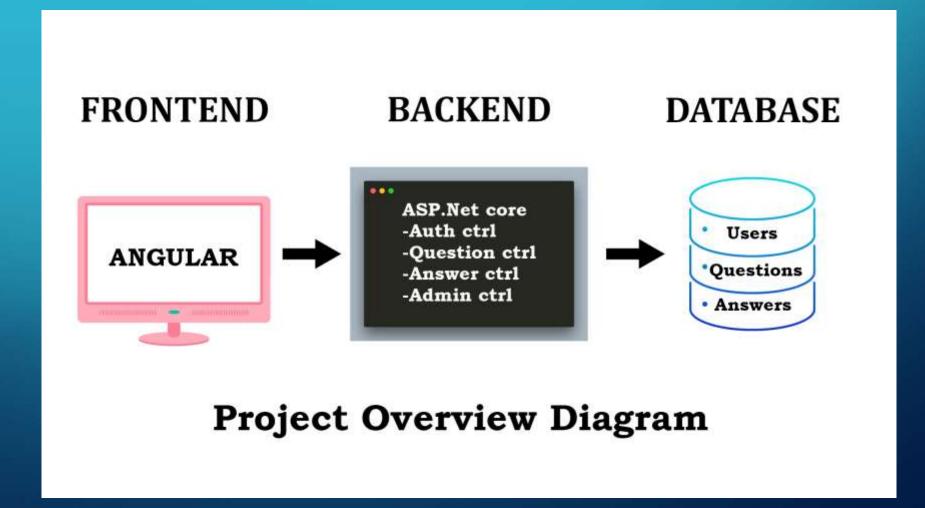
#### ANGULAR ARCHITECTURE

- Modules
- Components
- Templates
- Directives
- Services
- Routing
- Data Binding
- HTTP Client
- Dependency Injection

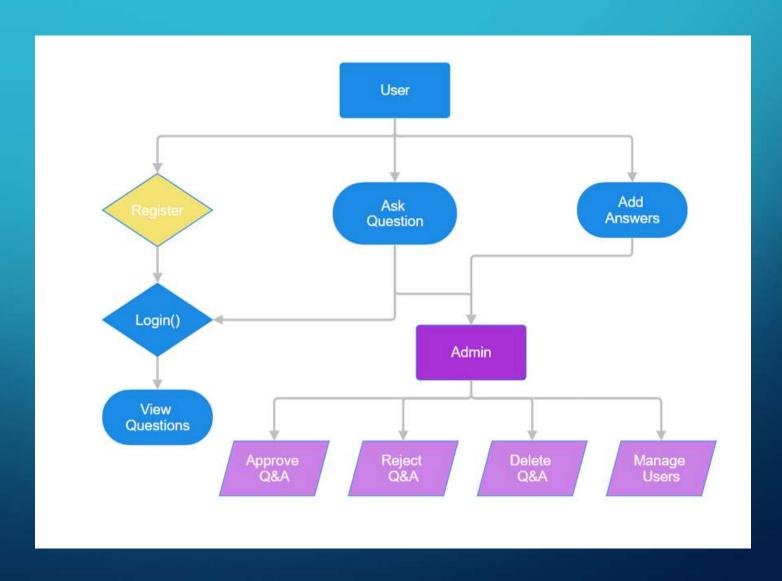
#### **ASP.NET ARCHITECTURE**

- Presentation Layer
- Business Layer
- Data Access Layer
- Database Layer

#### PROJECT OVERVIEW DIAGRAM



#### SYSTEM OVERFLOW DIAGRAM

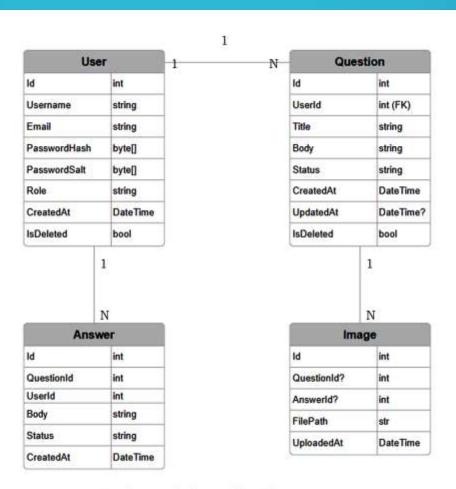


# login register ask Question user add answer logout approve Q & A approve Q & A Admin approve Q & A manage users Use Case Diagram

#### **DOCONNECT**

# USE CASE DIAGRAM

#### CLASS DIAGRAM



Entity Relationship Diagram

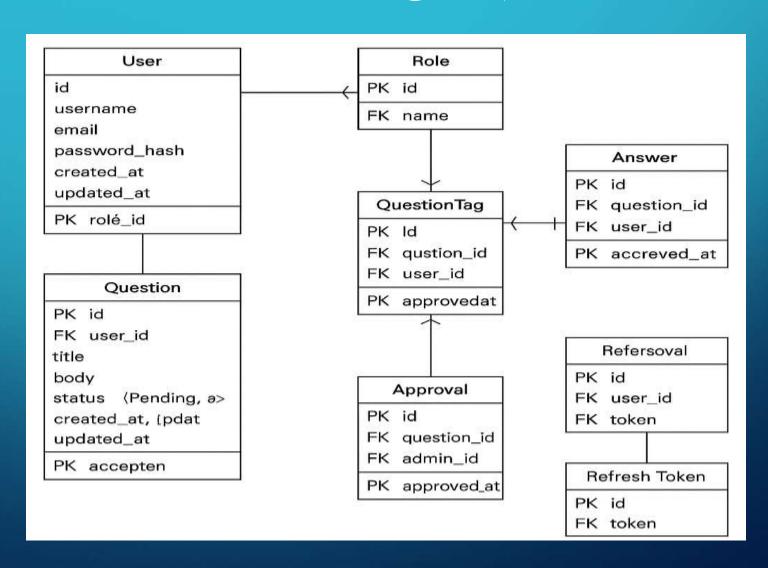
# LOGIN FLOW DIAGRAM

Angular SPA	AuthController/API	Database
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(localSt	torage)	Ţ

## ADMIN FLOW DIAGRAM

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#### ER DIAGRAM



# PROJECT SCREENSHOTS

#### **DOCONNECT**

#### FRONTEND CODE

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 w 🐷 integration
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#### DOCONNECT

#### **BACKEND CODE**

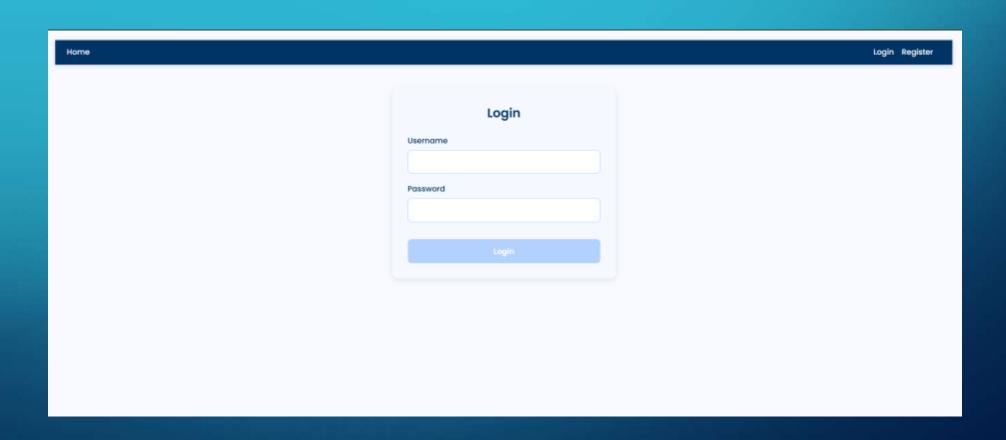
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  Database&Configure U
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  ■ DoConnect.Api.Tiests... U
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  nd DoConnect.sin
                                           opt TokenValidationParameters = new TokenValidationParameters
  doconnectzip
  8 README.md
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```

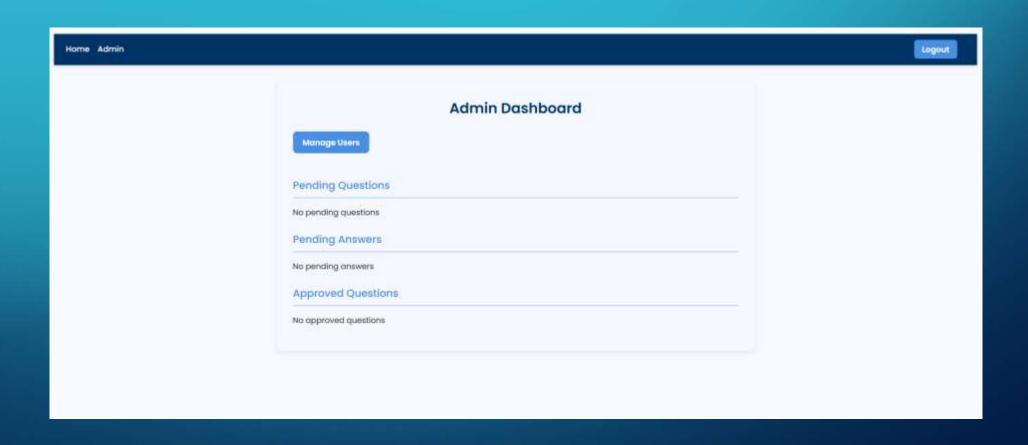
#### DOCONNECT

#### LOGIN PAGE



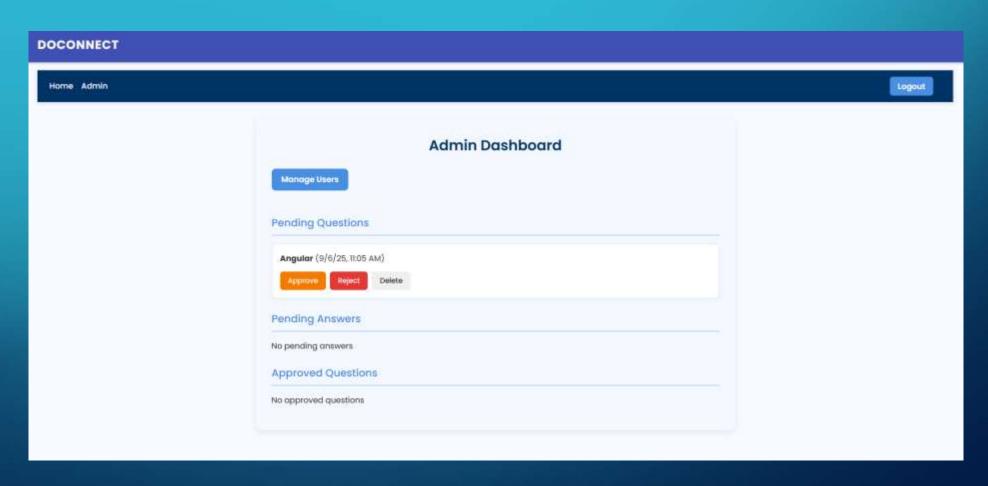
#### **DOCONNECT**

#### ADMIN DASHBOARD PAGE



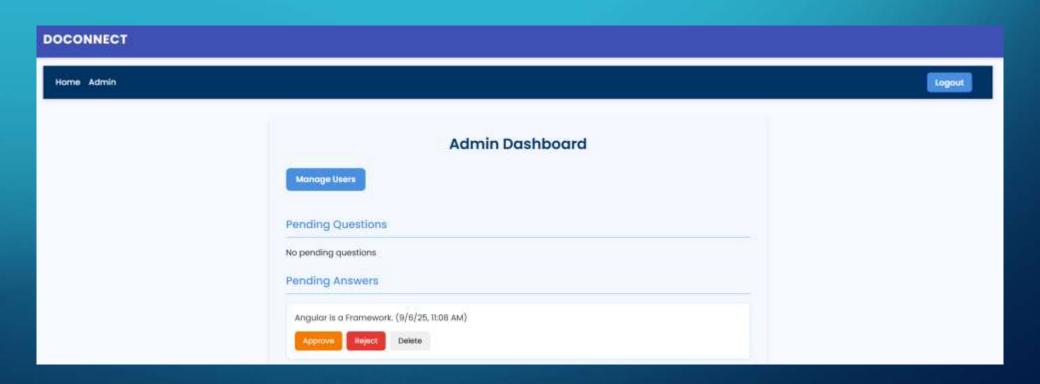
#### **DOCONNECT**

# ADMIN ACCEPT/REJECT QUESTION



#### **DOCONNECT**

# ADMIN ACCEPT/REJECT ANSWER



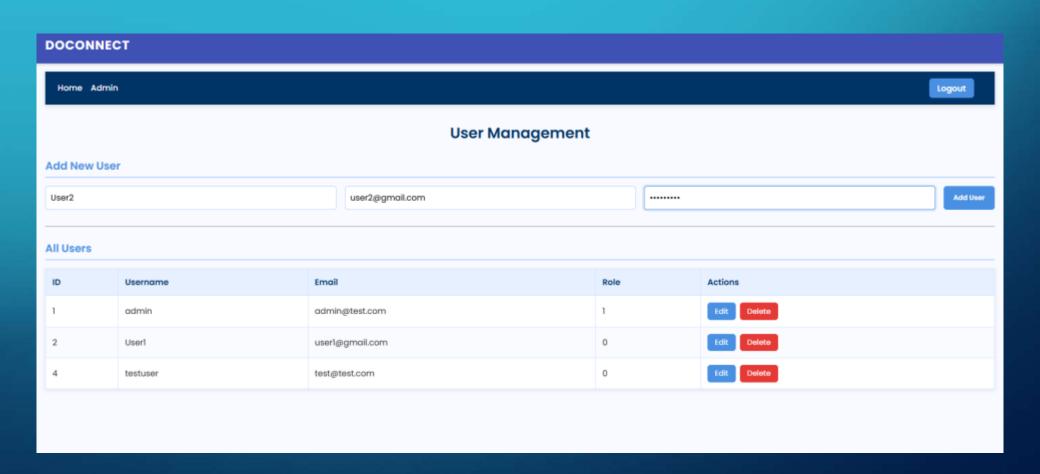
#### DOCONNECT

#### ADMIN DELETE QUESTION

Home Admin		Logout
	Admin Dashboard	
	Manage Users	
	Pending Questions	
	No pending questions	
	Pending Answers	
	No pending answers  Approved Questions	
	Angular (9/6/25, 8:39 AM)	
	Delete	

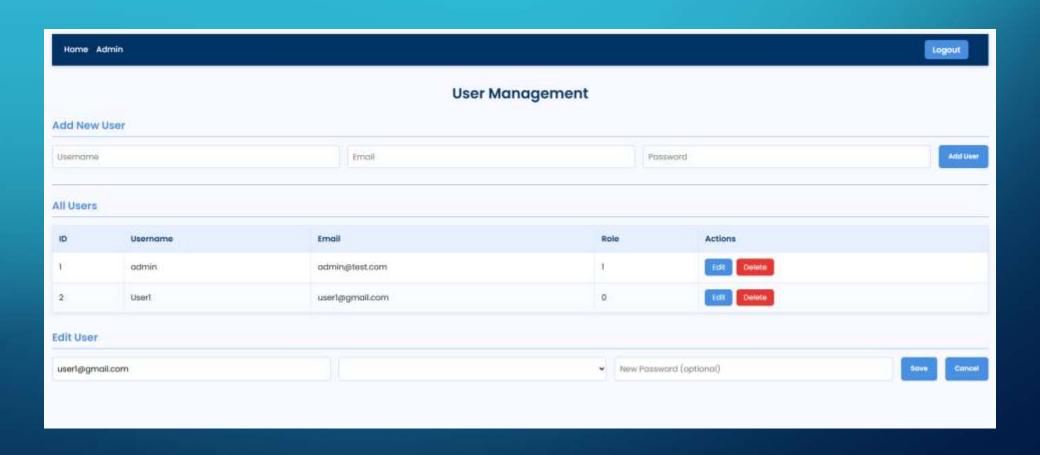
#### **DOCONNECT**

#### **ADMIN ADD USER**



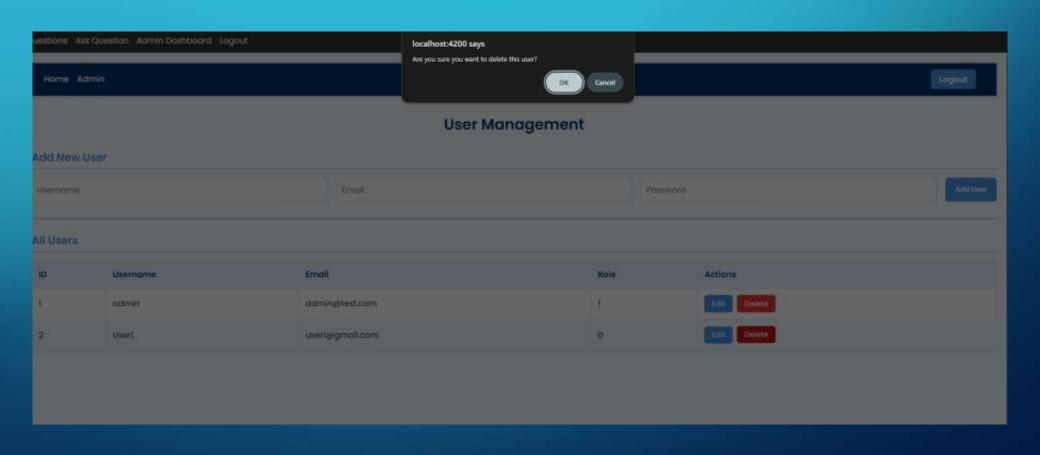
#### **DOCONNECT**

#### **ADMIN MODIFY USER**



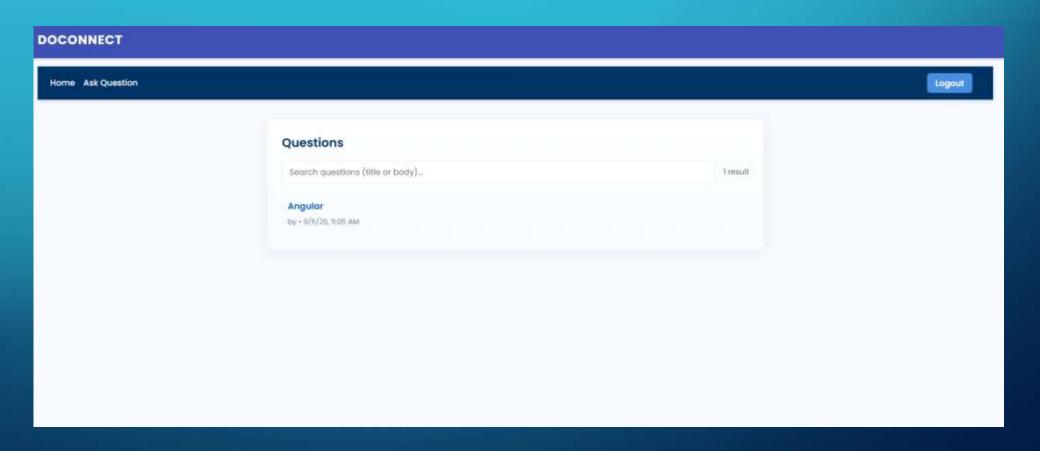
#### **DOCONNECT**

#### ADMIN DELETE USER



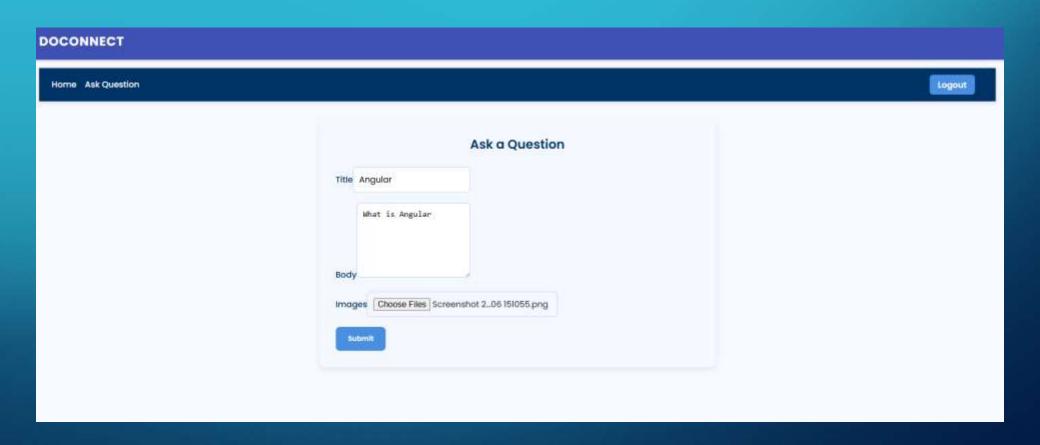
#### **DOCONNECT**

#### **USER DASHBOARD**



#### **DOCONNECT**

#### **USER ASK QUESTION**



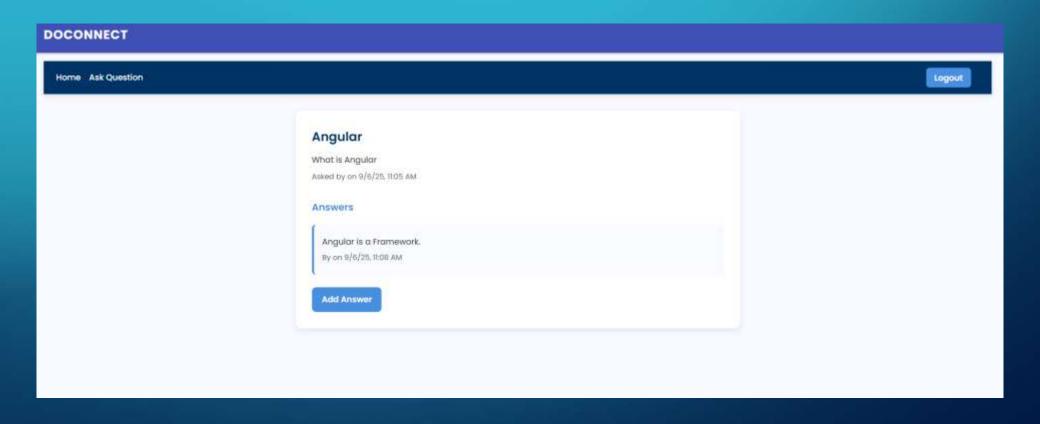
#### **DOCONNECT**

#### **USER ADD ANSWER**

DOCONNECT	
Home Ask Question	
	Write an Answer
	Answer
	Angular is a Framework.
	Images
	Choose Files No file chosen
	Submit

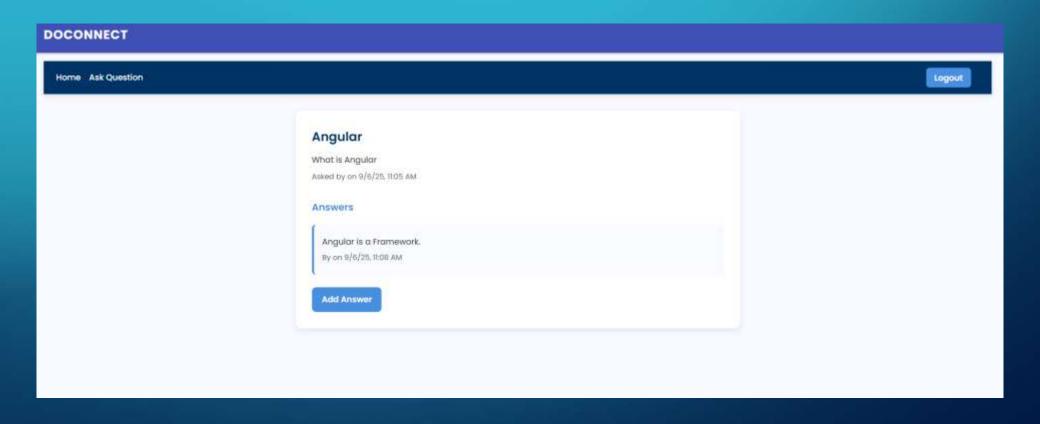
#### **DOCONNECT**

#### **USER VIEW QUESTION**



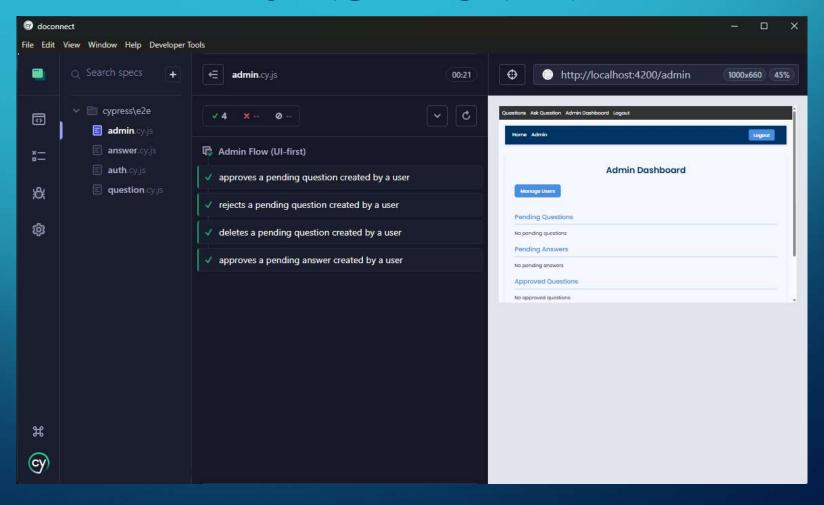
#### **DOCONNECT**

#### **USER VIEW QUESTION**



#### DOCONNECT

#### **TESTING - FRONTEND**



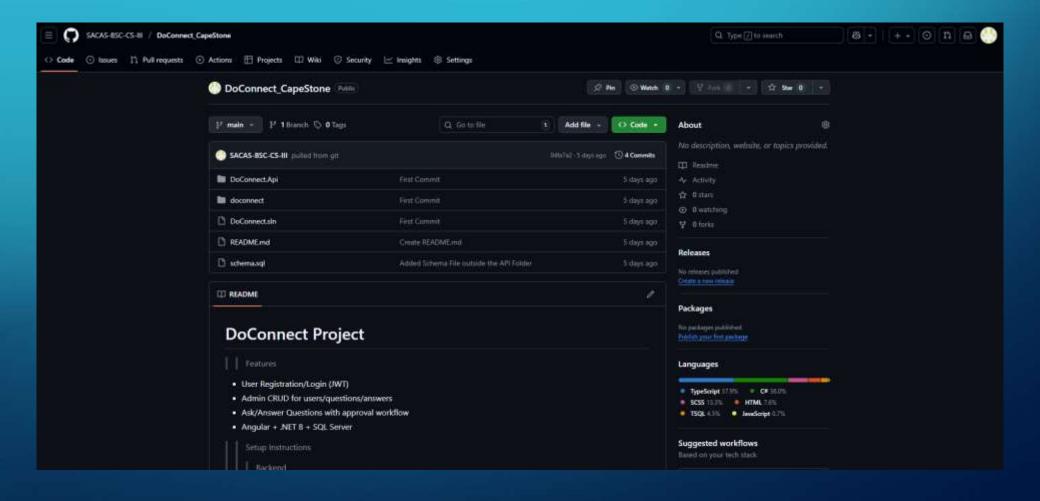
#### **DOCONNECT**

#### **TESTING - BACKEND**

```
PROBLEMS
            OUTPUT DEBUG CONSOLE TERMINAL
                                               PORTS
                                                       OUERY RESULTS
       SELECT "q"."Id", "q"."Body", "q"."CreatedAt", "q"."Status", "q"."Title", "q"."UserId"
       FROM "Questions" AS "q"
       WHERE "q"."Id" = @ p 0
       LIMIT 1
 [xUnit.net 00:00:15.61] Finished: DoConnect.Api.Tests
   DoConnect.Api.Tests test succeeded (20.9s)
 Test summary: total: 4, failed: 0, succeeded: 4, skipped: 0, duration: 20.9s
 Build succeeded in 35.1s
 Workload updates are available. Run `dotnet workload list` for more information.
 murug@SARAVANAN MINGW64 /d/DoConnect (main)
○ $
```

#### **DOCONNECT**

#### GITHUB REPOSITORY



# DOCONNECT THANKYOU