

DoConnect

Batch : C-3
GROUP : G-11

Under the esteemed guidance of :
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PRESENTED BY :-

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Objectives

Our project main objective is to allow people to ask any question and also to answer any question over the internet. Through our DoConnect website, a person can be able to question and answer for any of the topic.

▶ The main objectives are as follows:

- Find the best solution for their questions.
- Can clarify their doubts.

Abstract

- ▶ We all have previously come across about different webpages like Stackoverflow, Quora and Answer Bag etc. In the same way DoConnect is a popular Q and A form in which questions can be asked and answered.
- ▶ One can be able to Login, Logout and Register into the application. One can be able to ask any question under any topic. One can be able to search the question on any string written in search box.
- ▶ One can be able to Answer any question asked by any other user. One can be able to answer more than one question and more than one time. One can be able to chat with other users using chat option. Images can be uploaded for reference while asking any question.

System Specifications:

▶ Software Requirements:

- Technologies : Angular, SpringBoot
- Languages : TypeScript , Java, SQL queries
- IDE : Spring Tool Suite 4 , VS Code

▶ Hardware Requirements:

- Operating System: Windows 7 or more, Linux
- Processor: Intel or AMD dual core x86processor.
- RAM: 2GB or more.
- Hard disk: 500MB or more.

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.

► 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 or Answers.

COMPONENTS (FRONTEND)

```
▼ DOCONNECTUI
  > .angular
  > .vscode
  > node_modules
  ▼ src
    ▼ app
      > admin
      > admin-login
      > admin-register
      > all-questions
      > ask-question
      > chat
      > get-answer
      > login
      > nav-bar
      > register
      > user
      TS admin.service.spec.ts
      TS admin.service.ts
      TS admin.spec.ts
      TS admin.ts
      TS answer.spec.ts
      TS answer.ts
      TS app-routing.module.ts
      # app.component.css
```

These are the components
used in Frontend-

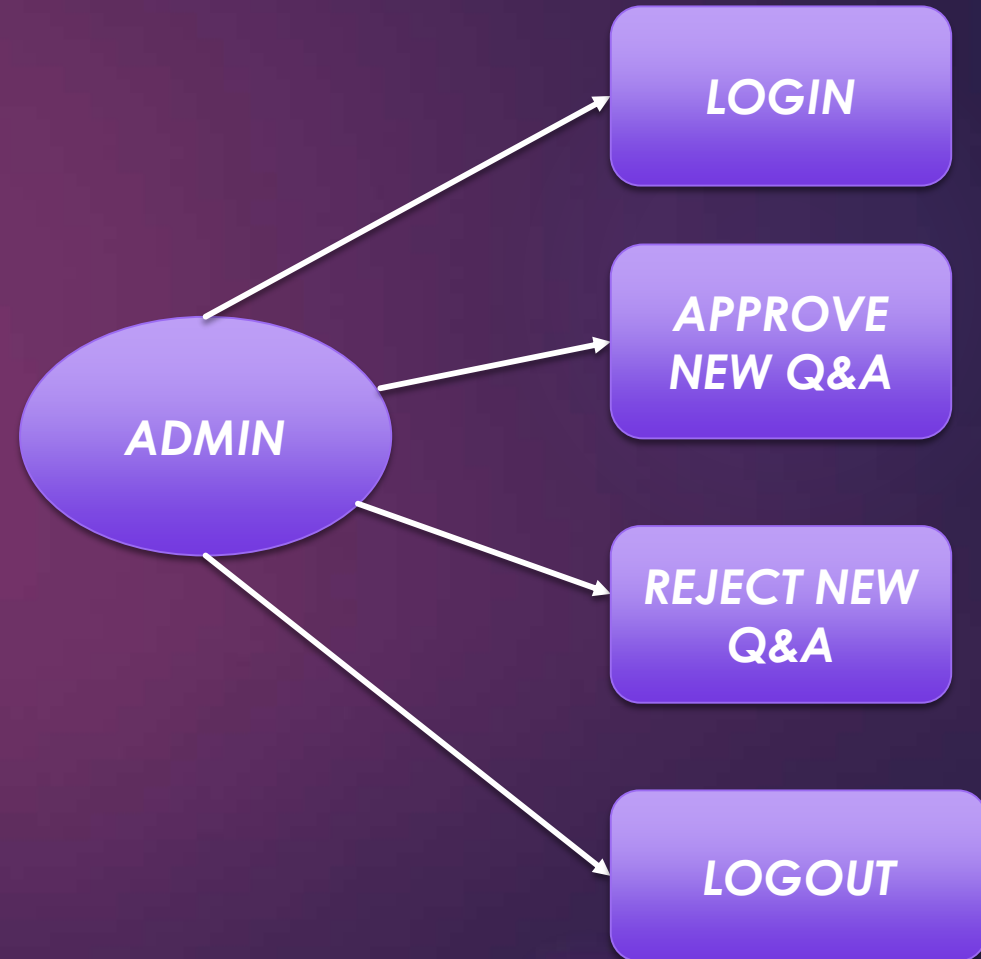
- 1) Admin
- 2) Question
- 3) Answer
- 4) User
- 5) Chat

USER CASE DIAGRAM

Functionality of User:



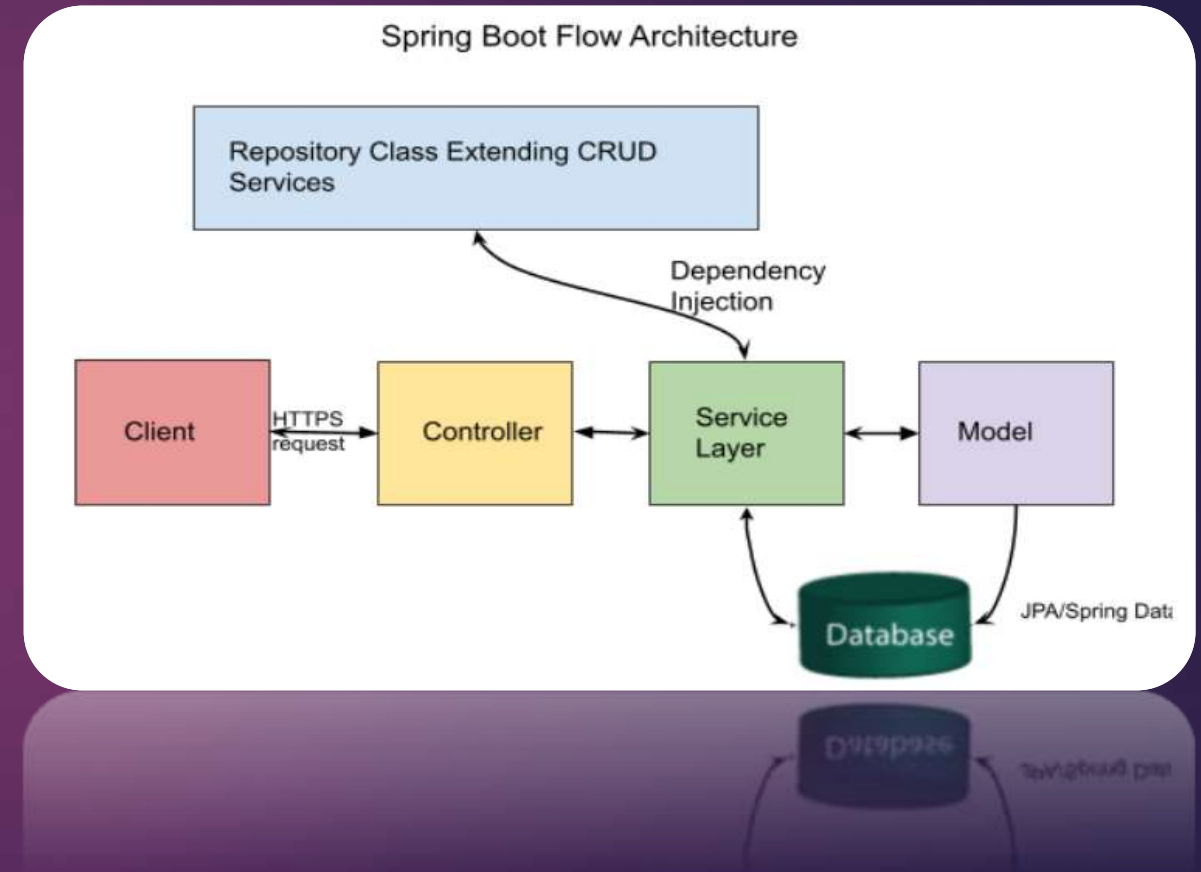
Functionality of Admin:



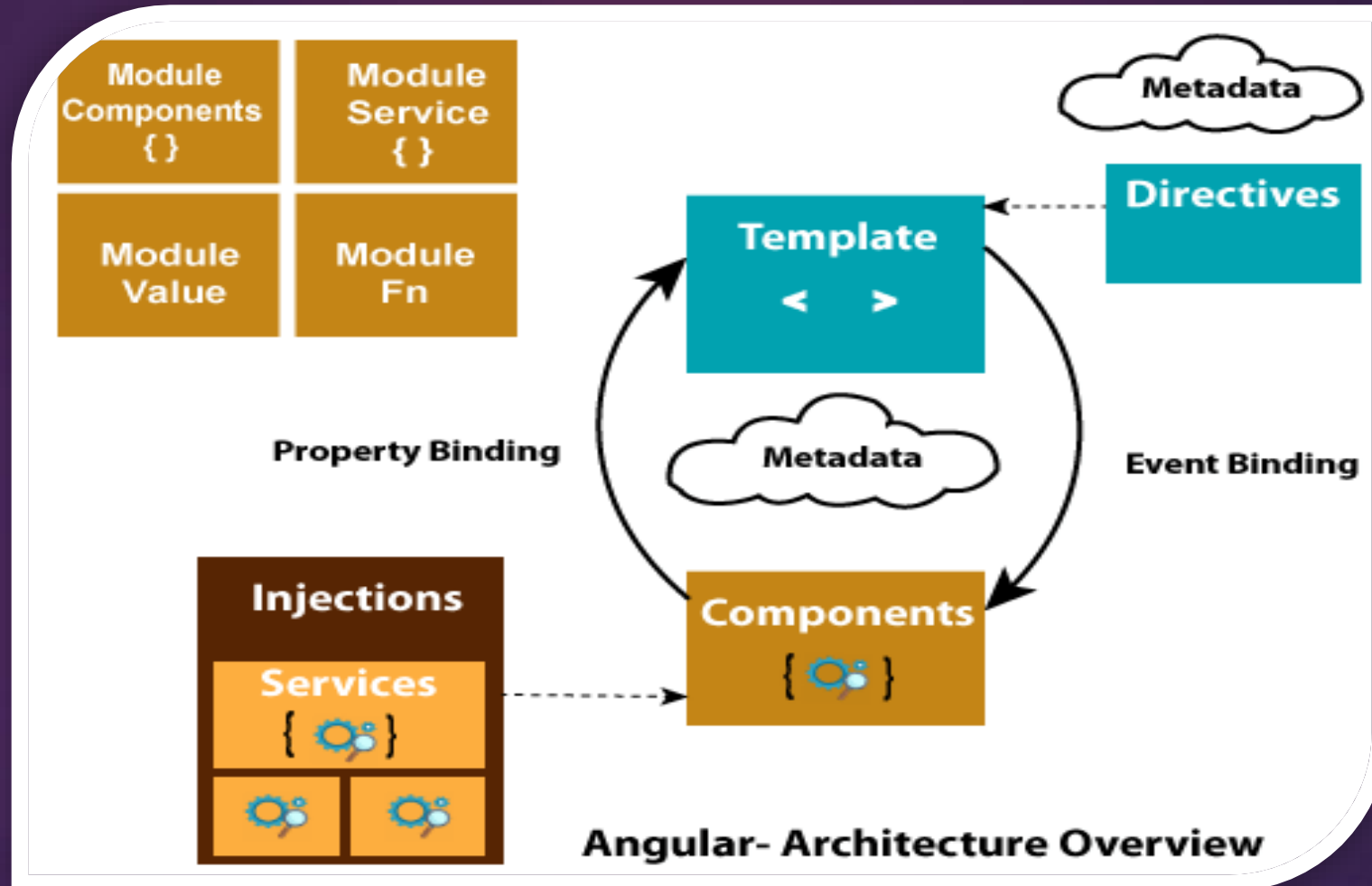
SpringBoot Architecture

The spring boot consists of the following four layers:

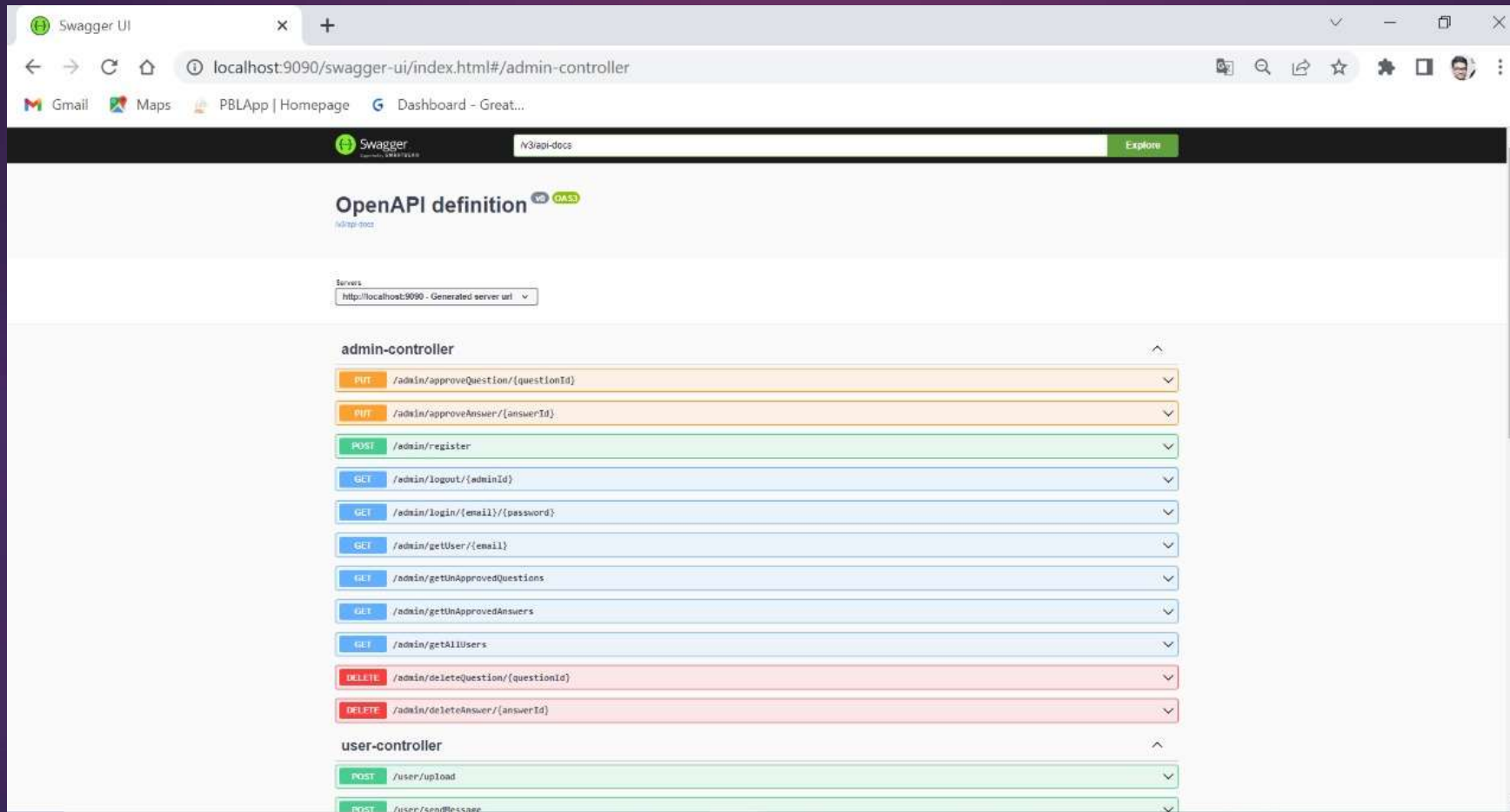
- Presentation Layer - Authentication & Json Translation
- Business Layer - Business Logic, Validation & Authorization
- Persistence Layer - Storage Logic
- Database Layer-Actual Database



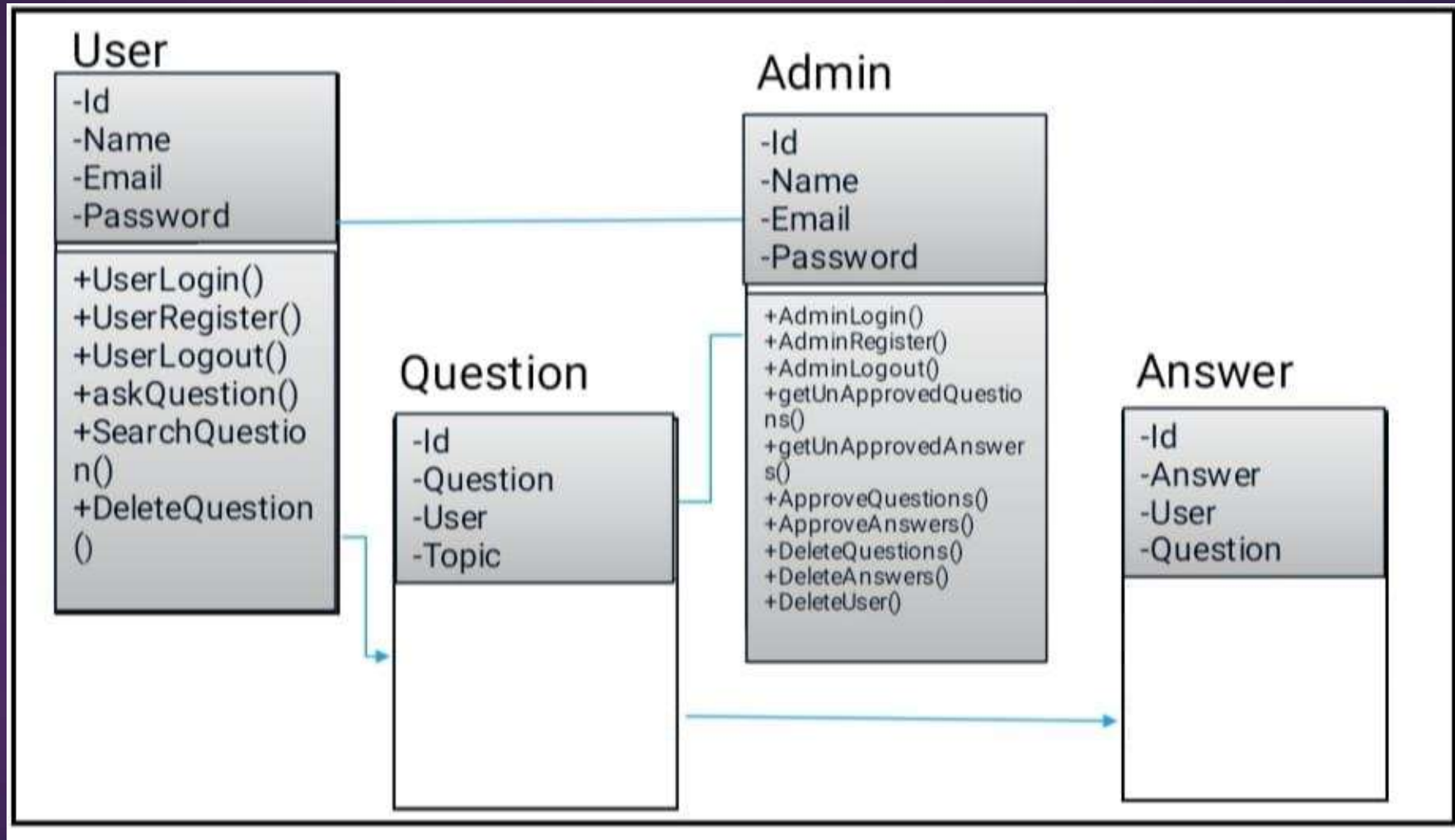
Angular Architecture



API Documentation- Swagger UI

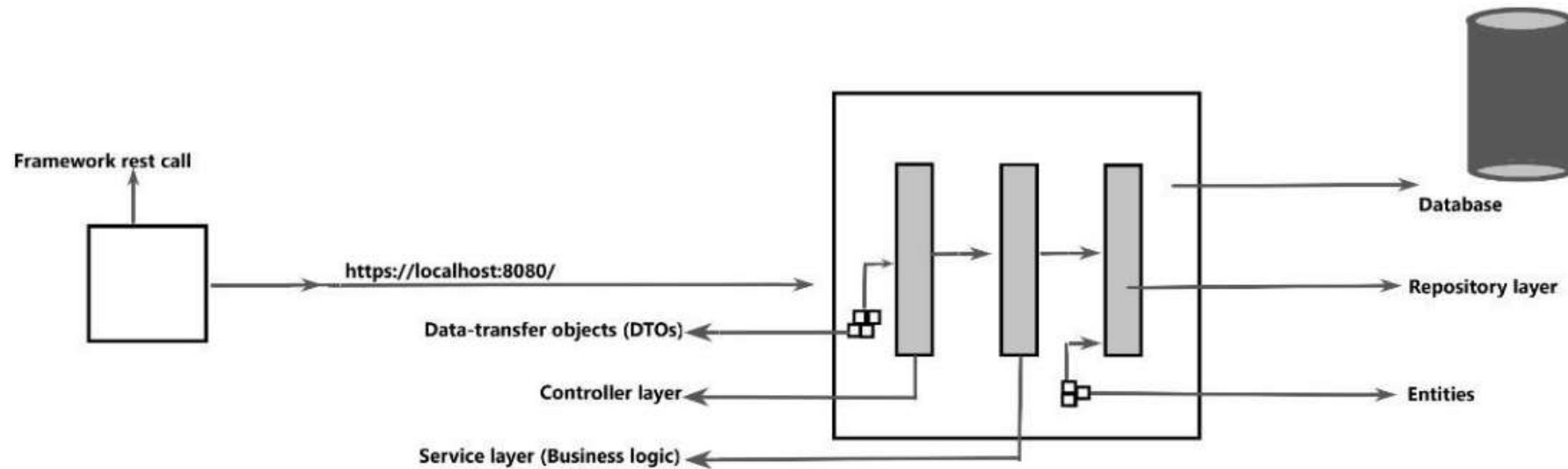


UML Diagram:

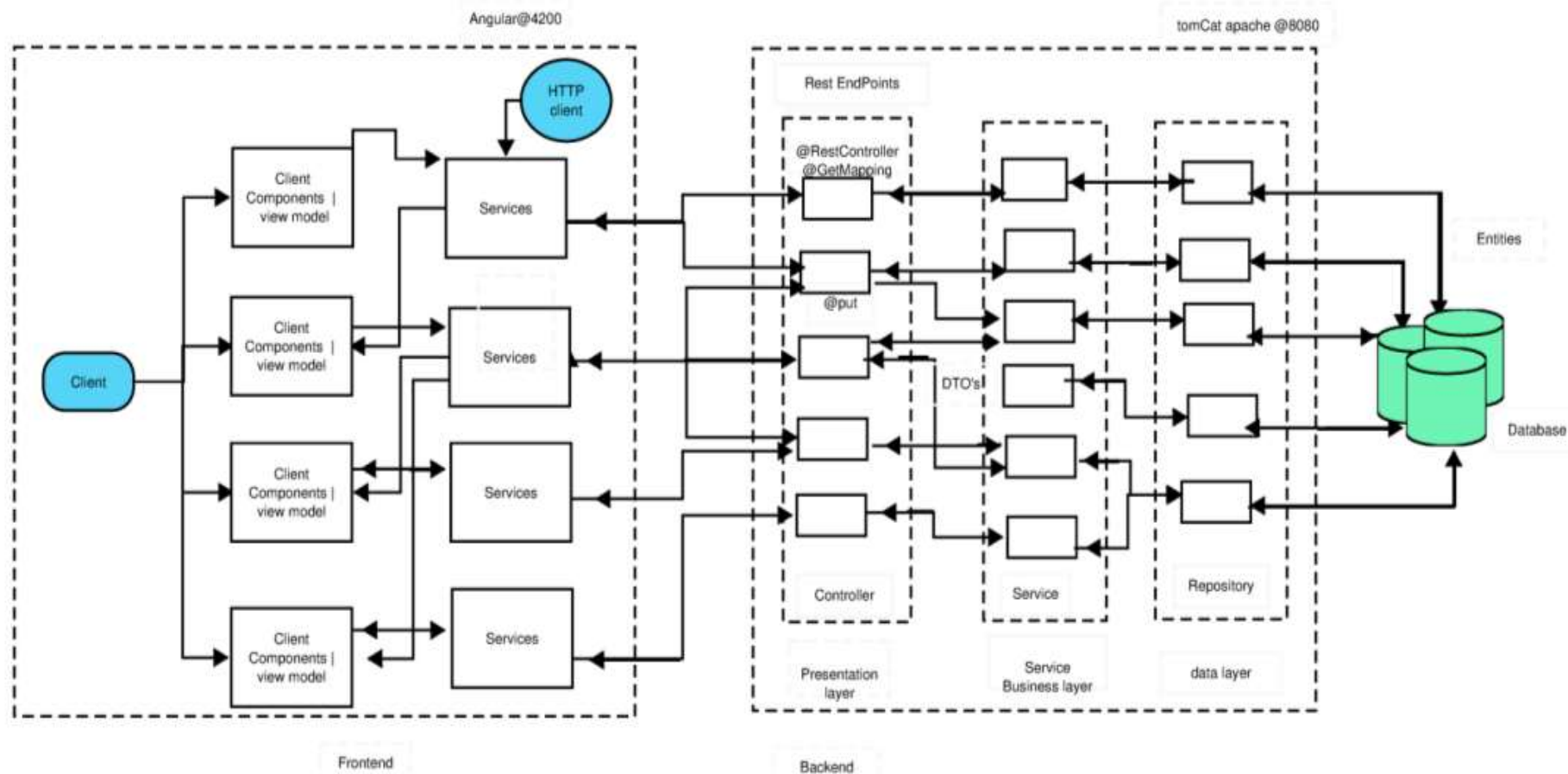


Backend Workflow

Application Workflow (Backend)



Total Work Flow



❖ Frontend:

The front end is the user interface and the part of the application with which users directly interact. The back end usually refers server applications such as a database. You may also hear of middleware, the software that glues it all together. The front end of DoConnect is the software that generates this page and other pages on demand. One might argue that your browser is also part of the front end.

❖ Backend:

The back end of DoConnect might be the database that stores and manages our questions, answers, activity statistics, and other information needed to run DoConnect and provides the raw data used to populate our screens when we click the buttons. DoConnect surely has middleware to link up people, and components of the pages, such as the customized selection of ads and the operation of tracking sites or clickstream analysis.

❖ DataBase:

Technology used: MySQL

USER REGISTRATION

DoConnect

Search

Log in Sign up

Register

Sai teja

saitejavelamala@gmail.com

9876546324

Register Reset

Have Account? Login here!

USER LOGIN

DoConnectUI

localhost:4200/login

Gmail Maps PBLApp | Homepage Dashboard - Great...

DoConnect Search Log in Sign up

Login

Email

saitejavelamala@gmail.com

Password

.....

Login

Don't Have Account Yet? Register here!

admin?, Login here!

USER DASHBOARD

DoconnectUI

localhost:4200/user

Gmail Maps PBLApp | Homepage Dashboard - Great...

DoConnect

Search

Hello Mr. sai teja

LogOut

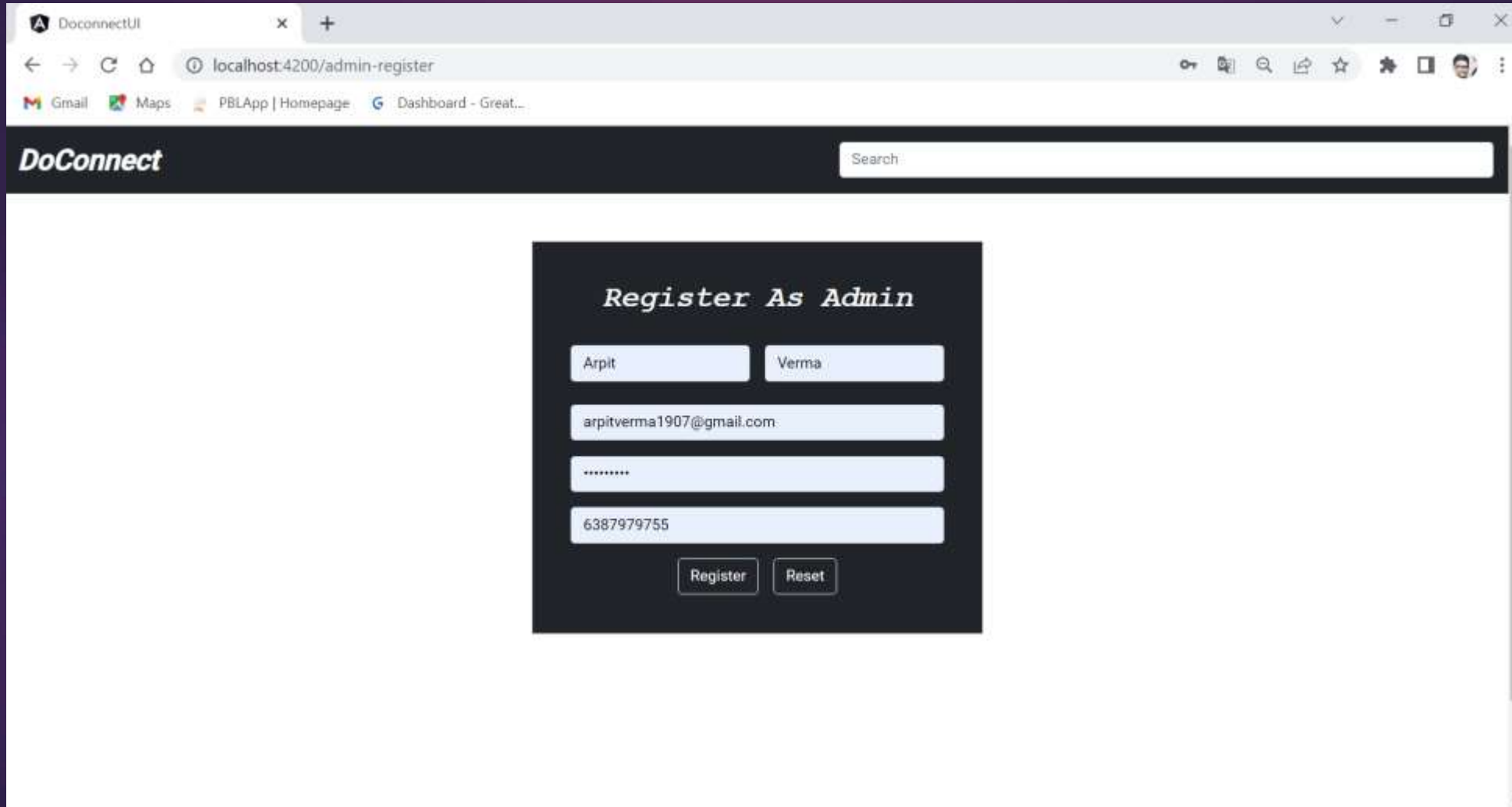
Ask Question

Chat

AllJavaPythonCloudOthers

Question	Posted By	Topic	Get Answers
What are OOPs concept?	sai teja	Java	Get Answers
What is the difference between list and tuples in Python?	Gaurav Pal	Python	Get Answers
What is Cloud computing?	jaswanth dammalapati	Cloud	Get Answers
What is polymorphism?	Gaurav Pal	Java	Get Answers
Which are some of the most popular DevOps tools?	Saumya Raj	Others	Get Answers
What is inheritance?	Ram Singh	Java	Get Answers
What is cloud?	Ram Singh	Cloud	Get Answers
What are tuples?	Shyam Sharma	Python	Get Answers
What is a list?	sai teja	Python	Get Answers
What is a class?	sai teja	Java	Get Answers

ADMIN REGISTRATION



The screenshot shows a web browser window with the address bar displaying 'localhost:4200/admin-register'. The browser's tab is labeled 'DoconnectUI'. The page features a dark header with the 'DoConnect' logo on the left and a search bar on the right. The main content area is white and contains a dark gray registration form titled 'Register As Admin'. The form includes input fields for a first name (Arpit), a last name (Verma), an email address (arpitverma1907@gmail.com), a password (represented by dots), and a phone number (6387979755). At the bottom of the form are 'Register' and 'Reset' buttons.

DoconnectUI

localhost:4200/admin-register

Gmail Maps PBLApp | Homepage Dashboard - Great...

DoConnect Search

Register As Admin

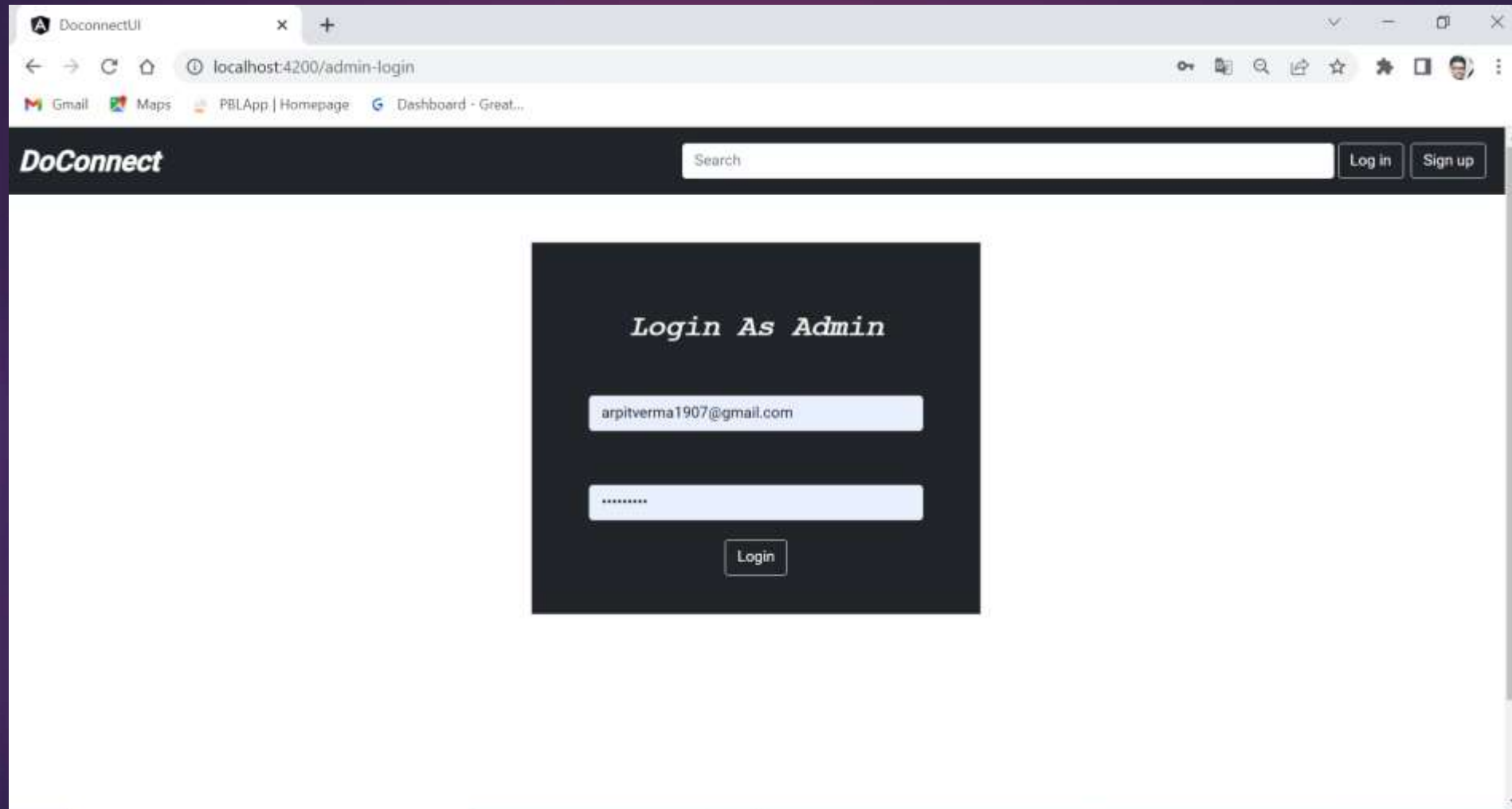
Arpit Verma

arpitverma1907@gmail.com

6387979755

Register Reset

ADMIN LOGIN



The screenshot shows a web browser window with the address bar displaying 'localhost:4200/admin-login'. The page features a dark header with the 'DoConnect' logo, a search bar, and 'Log in' and 'Sign up' buttons. The main content area contains a dark login box with the title 'Login As Admin', an email input field containing 'arpitverma1907@gmail.com', a password input field with masked characters, and a 'Login' button.

DoConnect

Search

Log in Sign up

Login As Admin

arpitverma1907@gmail.com

Login

ADMIN DASHBOARD

DococonnectUI

localhost:4200/admin

Gmail Maps PBLApp | Homepage Dashboard - Great...

DoConnect

Search

Log inSign up

Welcome Arpit Verma

LogOut

Expand to Add New Admin!

Expand to Choose to select UnApproved Questions

Expand to Choose to get all UnApproved Answers

Expand to Choose to Get All The Users.

Get All Users

Id	UserName	User Email	PhoneNumber
1	sai teja	saitajavelamala@gmail.com	9877655422
2	Saumya Raj	srivastavasomya11@gmail.com	6388495898
3	jaswanth dammalapati	dammalapatijaswanth66@gmail.com	9490568238
4	Gaurav Pal	gauravstar1250@gmail.com	7881148585
5	Ram Singh	ram@gmail.com	9999123452
6	Shyam Sharma	shyam@gmail.com	7653565477

ASK QUESTION WINDOW

The screenshot shows a web browser window with the address bar displaying 'localhost:4200/ask-question'. The browser's tab is labeled 'DoconnectUI'. The page features a dark header with the 'DoConnect' logo on the left and a search bar on the right. Below the header, a greeting 'Hello Mr. sai teja' is centered. The main content area contains a dark-themed form box. Inside this box, the title 'Choose topic From the Drop Down' is centered above a dropdown menu currently showing 'Java'. Below the dropdown, the text 'Post Your Question!' is followed by a large text input field containing the text 'What is abstraction?'. At the bottom of the form box, there are four buttons: 'Submit' (centered), 'Choose File' (left), 'Upload' (right), and 'Get Image' (bottom right, next to an 'Image name' input field).

DoconnectUI

localhost:4200/ask-question

DoConnect

Search

Hello Mr. sai teja

Choose topic From the Drop Down

Java

Post Your Question!

What is abstraction?

Submit

Choose File

Upload

Image name

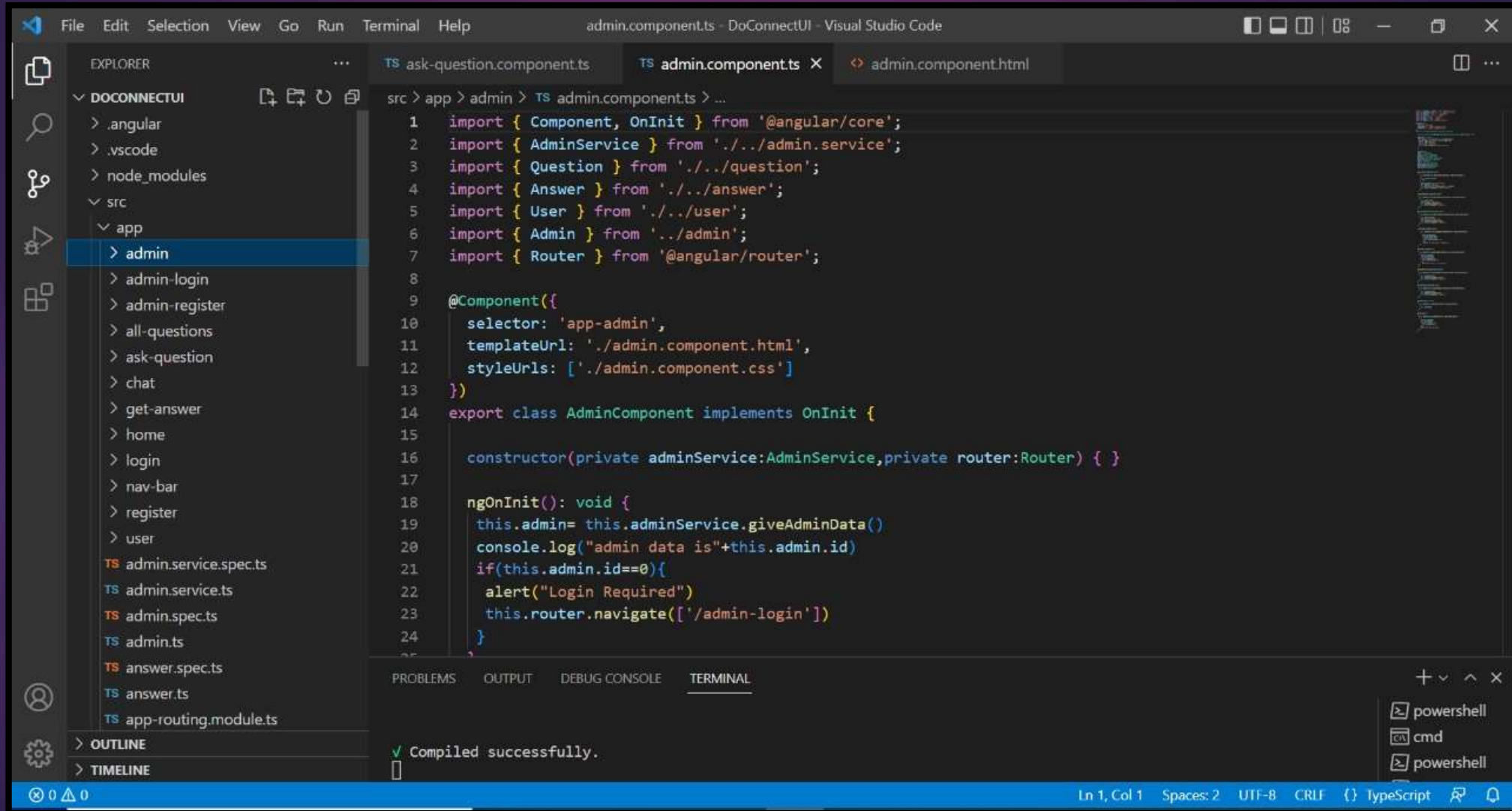
Get Image

CHAT SERVICE

The screenshot displays a web browser window with the address bar showing 'localhost:4200/user'. The page features a dark header with the 'DoConnect' logo and a search bar. Below the header, a personalized greeting 'Hello Mr. Saumya Raj' is shown. A blue 'Ask Question' button is positioned above a category filter bar containing 'All', 'Java', 'Python', and 'Cloud'. The main content area is a table with two columns: 'Question' and 'Posted By'. The 'Question' column lists various topics like OOPs, Python tuples, Cloud computing, polymorphism, DevOps tools, inheritance, cloud, tuples, and lists. The 'Posted By' column lists the names of the users who asked these questions. On the right side, a chat sidebar is open, displaying a welcome message for 'Saumya Raj' and a 'View Chat' link. Below this, two chat messages are visible: 'Why JAVA is a platform independent language?' by 'sai teja' and 'What are the different phases in DevOps?' by 'Saumya Raj'. At the bottom of the sidebar is a text input field labeled 'Enter message'.

Question	Posted By
What are OOPs concept?	sai teja
What is the difference between list and tuples in Python?	Gaurav Pal
What is Cloud computing?	jaswanth dammalapati
What is polymorphism?	Gaurav Pal
Which are some of the most popular DevOps tools?	Saumya Raj
What is inheritance?	Ram Singh
What is cloud?	Ram Singh
What are tuples?	Shyam Sharma
What is a list?	sai teja

STRUCTURE OF FRONTEND



The screenshot displays the Visual Studio Code interface for a project named 'DoConnectUI'. The Explorer panel on the left shows the file structure, with the 'admin' directory selected under the 'app' directory. The main editor window shows the code for 'admin.component.ts'. The code includes imports for various services and components, and defines the 'AdminComponent' class with its selector, templateUrl, styleUrls, and ngOnInit method. The terminal at the bottom shows a successful compilation message.

```
src > app > admin > TS admin.component.ts > ...
1  import { Component, OnInit } from '@angular/core';
2  import { AdminService } from '../admin.service';
3  import { Question } from '../question';
4  import { Answer } from '../answer';
5  import { User } from '../user';
6  import { Admin } from '../admin';
7  import { Router } from '@angular/router';
8
9  @Component({
10   selector: 'app-admin',
11   templateUrl: './admin.component.html',
12   styleUrls: ['./admin.component.css']
13 })
14 export class AdminComponent implements OnInit {
15
16   constructor(private adminService: AdminService, private router: Router) { }
17
18   ngOnInit(): void {
19     this.admin = this.adminService.giveAdminData();
20     console.log("admin data is" + this.admin.id);
21     if (this.admin.id == 0) {
22       alert("Login Required");
23       this.router.navigate(['/admin-login']);
24     }
25   }
26 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

✓ Compiled successfully.

Ln 1, Col 1 Spaces: 2 UTF-8 CRLF TypeScript

STRUCTURE OF BACKEND

The screenshot displays an IDE window titled "G11_CAPSTONE_PROJECT - DoConnect/src/main/java/com/wipro/doconnect/service/UserService.java - Spring Tool Suite 4". The interface is divided into three main sections: a Package Explorer on the left, a central code editor, and a bottom console area.

Package Explorer (Left): Shows the project structure for "DoConnect [boot] [devtools]". The "src/main/java" directory is expanded, revealing the package "com.wipro.doconnect.chat" and its sub-packages: "com.wipro.doconnect.chat.controller", "com.wipro.doconnect.chat.dto", "com.wipro.doconnect.chat.entity", "com.wipro.doconnect.chat.repository", and "com.wipro.doconnect.chat.service". The "src/main/resources" directory is also expanded, showing "static", "templates", and "application.properties".

Code Editor (Center): Displays the code for "UserService.java". The code defines a package, imports an exception, and declares a public interface "UserService" with several methods:

```
1 package com.wipro.doconnect.service;
2
3 import java.io.IOException;
4
5
6
7
8
9
10
11
12
13
14
15
16
17 public interface UserService
18 {
19     public User userLogin(String email, String password);
20     public String userLogout(Long userId);
21     public User userRegister(@Valid User user);
22
23     public Question askQuestion(@Valid AskQuestionDTO askQuestionDTO);
24     public Answer giveAnswer(@Valid PostAnswerDTO postAnswerDTO);
25
26
27     public List<Question> searchQuestion(String question);
28
29     public List<Answer> getAnswers(Long questionId);
30     public List<Question> getQuestions(String topic);
31
32     public BodyBuilder uploadImage(MultipartFile file) throws IOException;
33     public ImageModel getImage(String imageName);
34
35     public Message sendMessage(@Valid Message message);
36 }
37
```


Conclusion

Hence,we conclude that , we have successfully created and developed a website DoConnect using the database structure and entity frame work, with all the requirements mentioned in the case study.And we have successfully deployed our project in Angular and spring boot.



Thank you

