

# EduBridge



A Project

Report On

## **Tech-BLOG**

By

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**Batch : 2022 – 7905**

**Center : Trichy**

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**EduBridge**

(Digital Academy – Certification program  
in Java Full Stack)

## INTRODUCTION:

The projects while learning a programming language is really fun and exciting. We are going to make a simple Tech Blog project using Spring Boot REST Api. It's possible to make a complete functional blog project and GUI in java. In our simple Tech Blog project, the user can see post , comment .But to add post, add comment, update post, update comment they have to first signup and signin to the user account.

## MODULES:

1. **Admin Module** ● In Admin module , the admin can check the users account, post, comments and the admin can manage users, manage posts, manage comments for the existing account of the user.
2. **User Module** ● In User module, the user can view the post, comment of the posts. And the user need to add the new post and comment, they must to signup and signin their account to further proceed in the application.

I have developed this Application in **Java, JSP, Servlets, Hibernate and MySQL**. It's a web-based projects so I have used **HTML, CSS, JavaScript and Bootstrap ,Thymleaf**.

The main objective of the Tech blog is to view the post and comments of the Tech category like Java, Python, C, C++ , Data Science etc... When the user need to add the new post and add comment for the existing post , they must have to signup the account .Now the user can do add post , add

comment. And they can update post their own post in available category. In Admin module, admin can add more category in the website. Admin can only see the admin page and the user have do any vulgar comments and posts, the admin can remove from the account .

## **SOFTWARE REQUIREMENTS:**

- **Frontend** : Java/J2EE technologies (Servlet, JSP), HTML, CSS, JavaScript, Bootstrap, Thymleaf, Hibernate.
- **Backend** : MySQL Workbench 8.0 C E .
- **Middleware/ Server** : Apache Tomcat v8.5. IDE: Spring tool suite for
- Java EE Developers
- **Browser** : Google Chrome
- **Operating system** : Windows 11

# MySQL - Data Dictionary :

- Create database blogappdb

```
mysql> use blogappdb;
Database changed
mysql> show tables;
+-----+
| Tables_in_blogappdb |
+-----+
| category             |
| comment              |
| post                 |
| user                 |
+-----+
4 rows in set (0.59 sec)

mysql> desc post;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| post_id    | bigint    | NO   | PRI | NULL    |       |
| post_content | varchar(400) | NO   |     | NULL    |       |
| post_creation | datetime(6) | YES  |     | NULL    |       |
| post_image  | longblob  | NO   |     | NULL    |       |
| post_title  | varchar(50) | NO   |     | NULL    |       |
| post_updatation | datetime(6) | YES  |     | NULL    |       |
| category_id | bigint    | YES  | MUL | NULL    |       |
| user_id     | bigint    | YES  | MUL | NULL    |       |
+-----+-----+-----+-----+-----+-----+
8 rows in set (0.22 sec)

mysql> desc user;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| user_id    | bigint    | NO   | PRI | NULL    |       |
| about      | varchar(150) | YES  |     | NULL    |       |
| dob        | datetime(6) | YES  |     | NULL    |       |
| user_email | varchar(50) | YES  | UNI | NULL    |       |
| user_name  | varchar(100) | NO   |     | NULL    |       |
| user_password | varchar(20) | YES  |     | NULL    |       |
| role       | varchar(30) | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
7 rows in set (0.00 sec)
```

```
mysql> desc post;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| post_id    | bigint    | NO   | PRI | NULL    |       |
| post_content | varchar(400) | NO   |     | NULL    |       |
| post_creation | datetime(6) | YES  |     | NULL    |       |
| post_image  | longblob  | NO   |     | NULL    |       |
| post_title  | varchar(50) | NO   |     | NULL    |       |
| post_updatation | datetime(6) | YES  |     | NULL    |       |
| category_id | bigint    | YES  | MUL | NULL    |       |
| user_id     | bigint    | YES  | MUL | NULL    |       |
+-----+-----+-----+-----+-----+-----+
8 rows in set (0.22 sec)

mysql> desc user;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| user_id    | bigint    | NO   | PRI | NULL    |       |
| about      | varchar(150) | YES  |     | NULL    |       |
| dob        | datetime(6) | YES  |     | NULL    |       |
| user_email | varchar(50) | YES  | UNI | NULL    |       |
| user_name  | varchar(100) | NO   |     | NULL    |       |
| user_password | varchar(20) | YES  |     | NULL    |       |
| role       | varchar(30) | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
7 rows in set (0.00 sec)

mysql> desc category;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| category_id | bigint    | NO   | PRI | NULL    |       |
| category_name | varchar(20) | NO   | UNI | NULL    |       |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)


mysql> |
```

## Screenshots :


- Home Page :

## Tech Related Blogs







**Java**  
Java is a popular programming language. Java is ...  
[Read More](#)




**C**  
C is Structured language...  
[Read More](#)




**Python**  
Python is high level programming...  
[Read More](#)




**MySQL**  
MySQL is an open-source relational database manage...  
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**DataScience**  
Data science combines math and statistics. special...  
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**CSS**  
Cascading Style Sheets is a style sheet language. is...  
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**cloud computing**  
cloud computing is the delivery of computing serv...  
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**HTML**  
The HyperText Markup Language or HTML is the stand...  
[Read More](#)



**C++**  
C++ is a general-purpose programming language and ...  
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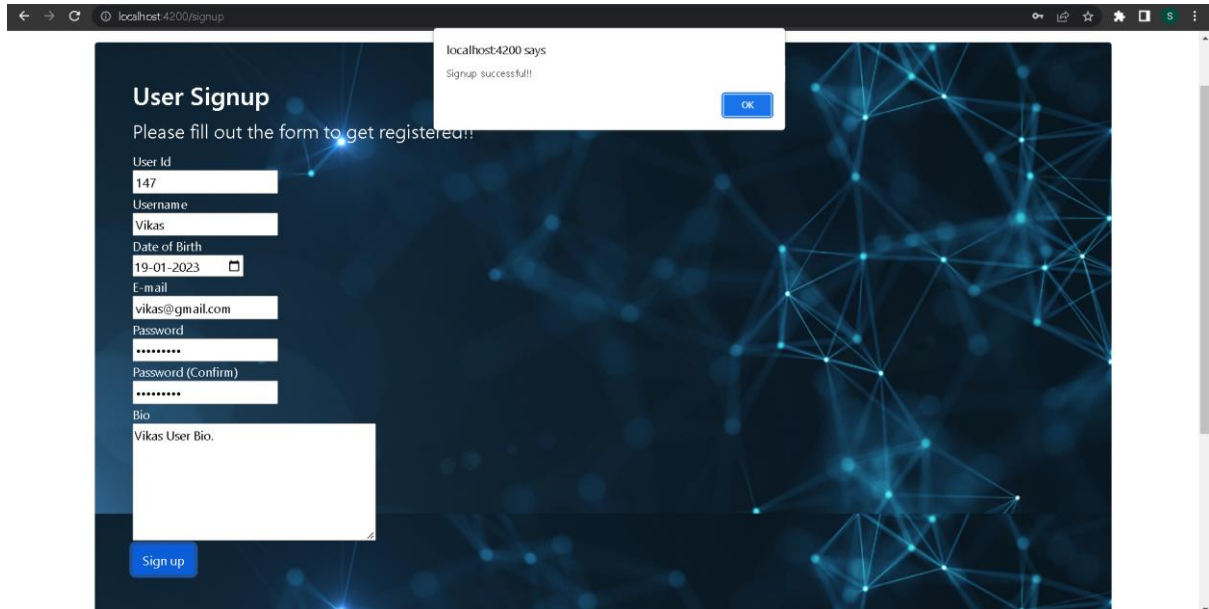
**Machine Learning**  
Machine learning is a subfield of artificial intel...  
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## Users :

- SignUp Page :



The screenshot shows a web browser window with the address bar displaying 'localhost:4200/signup'. The page has a dark blue background with a network diagram pattern. A white modal box in the center-left contains the 'User Signup' form. The form fields are filled with the following data: User Id (147), Username (Vikas), Date of Birth (19-01-2023), E-mail (vikas@gmail.com), Password (masked with dots), Password (Confirm) (masked with dots), and Bio (Vikas User Bio.). A blue 'Sign up' button is at the bottom left of the form. A white toast notification at the top center says 'localhost:4200 says Signup successful!' with an 'OK' button. The text 'Please fill out the form to get registered!!' is above the form fields.

**User Signup**  
Please fill out the form to get registered!!

User Id  
147

Username  
Vikas

Date of Birth  
19-01-2023

E-mail  
vikas@gmail.com

Password  
\*\*\*\*\*

Password (Confirm)  
\*\*\*\*\*

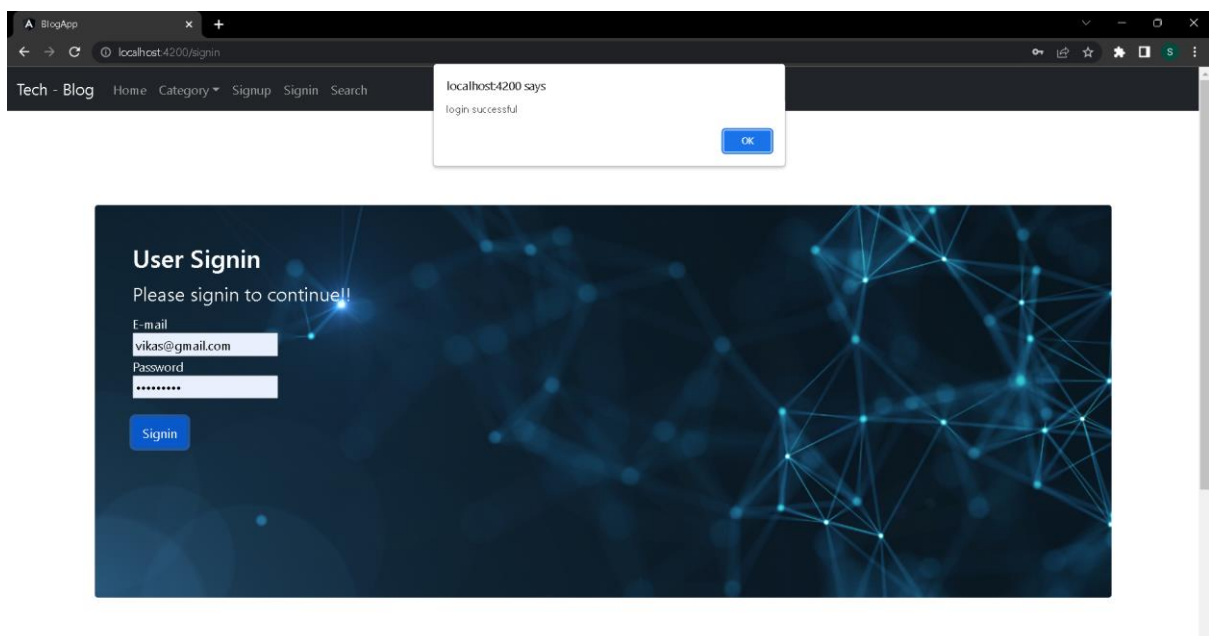
Bio  
Vikas User Bio.

Sign up

localhost:4200 says  
Signup successful!

OK

- SignIn Page :



The screenshot shows a web browser window with the address bar displaying 'localhost:4200/signin'. The page has a dark blue background with a network diagram pattern. A white modal box in the center-left contains the 'User Signin' form. The form fields are filled with the following data: E-mail (vikas@gmail.com) and Password (masked with dots). A blue 'Signin' button is at the bottom left of the form. A white toast notification at the top center says 'localhost:4200 says login successful' with an 'OK' button. The text 'Please signin to continue!!' is above the form fields. The browser's top navigation bar includes 'Tech - Blog', 'Home', 'Category', 'Signup', 'Signin', and 'Search'.

**User Signin**  
Please signin to continue!!

E-mail  
vikas@gmail.com

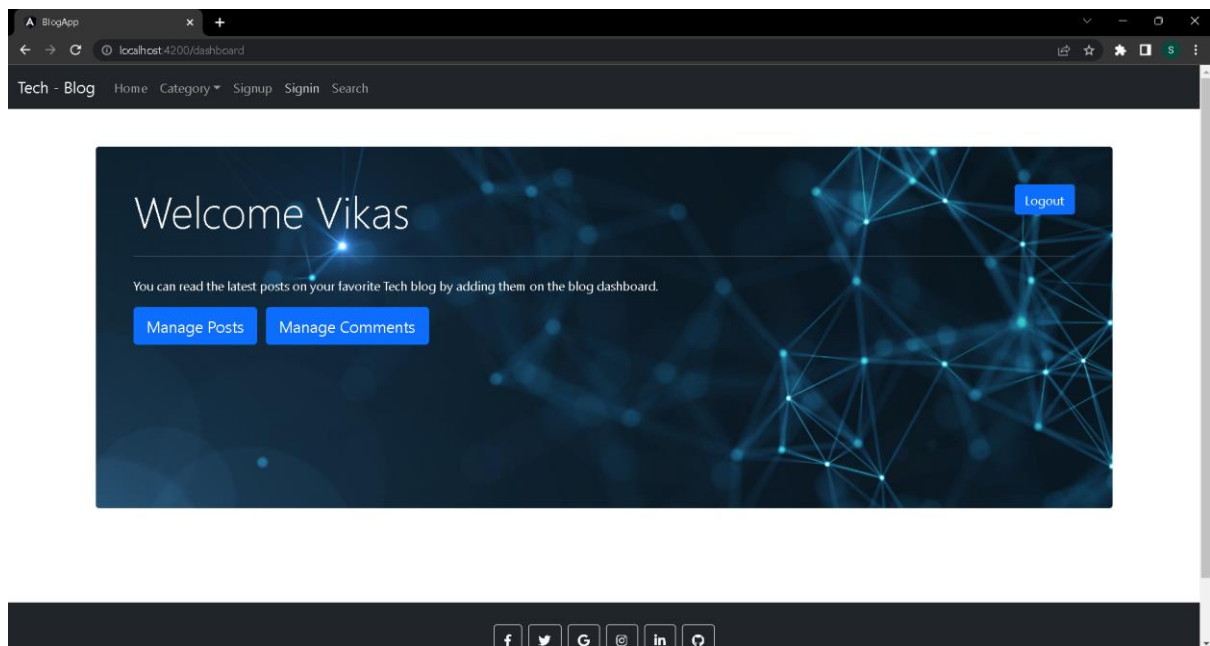
Password  
\*\*\*\*\*

Signin

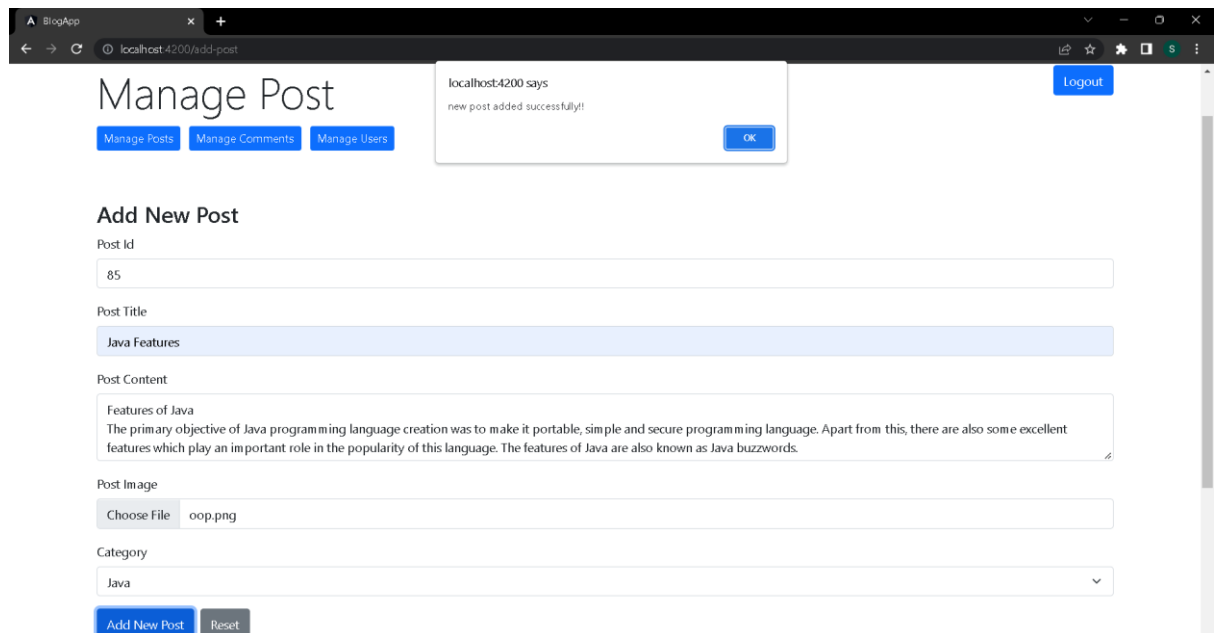
localhost:4200 says  
login successful

OK

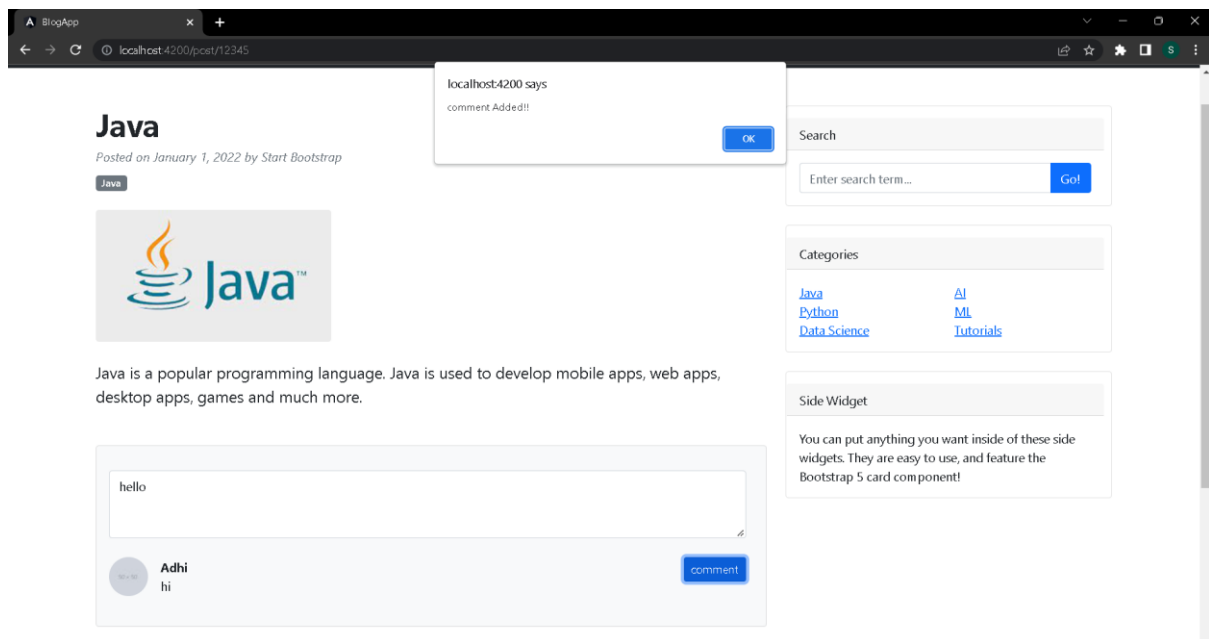
- Dashboard Page :



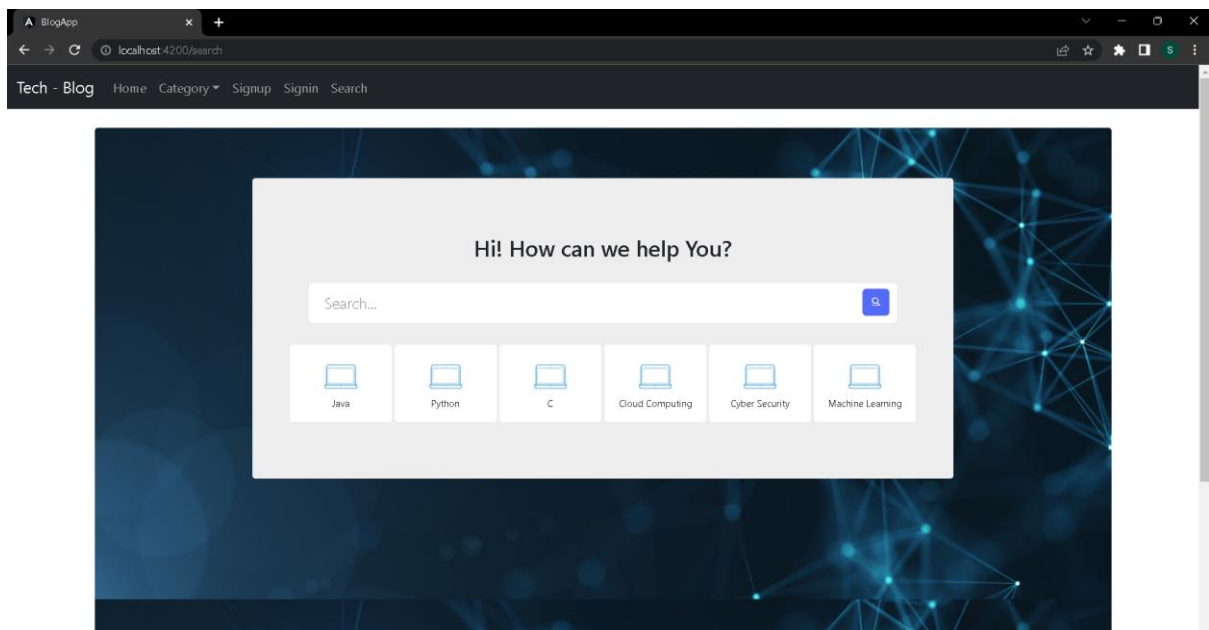
- Add new Post :



- Add new Comment :

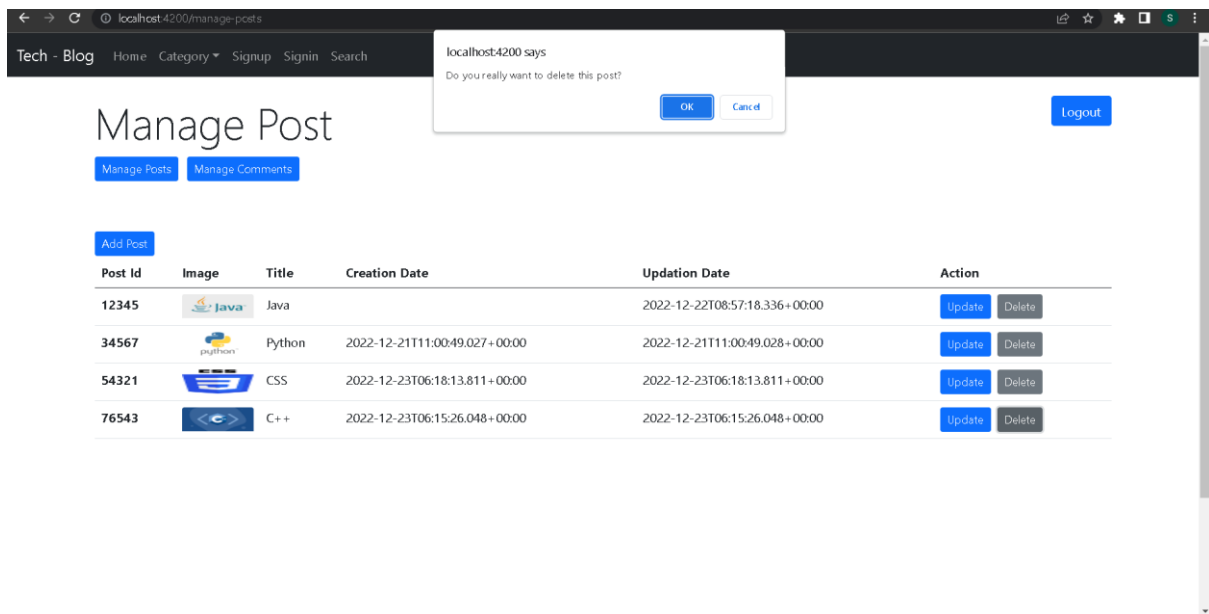


- Search Post by Post name :

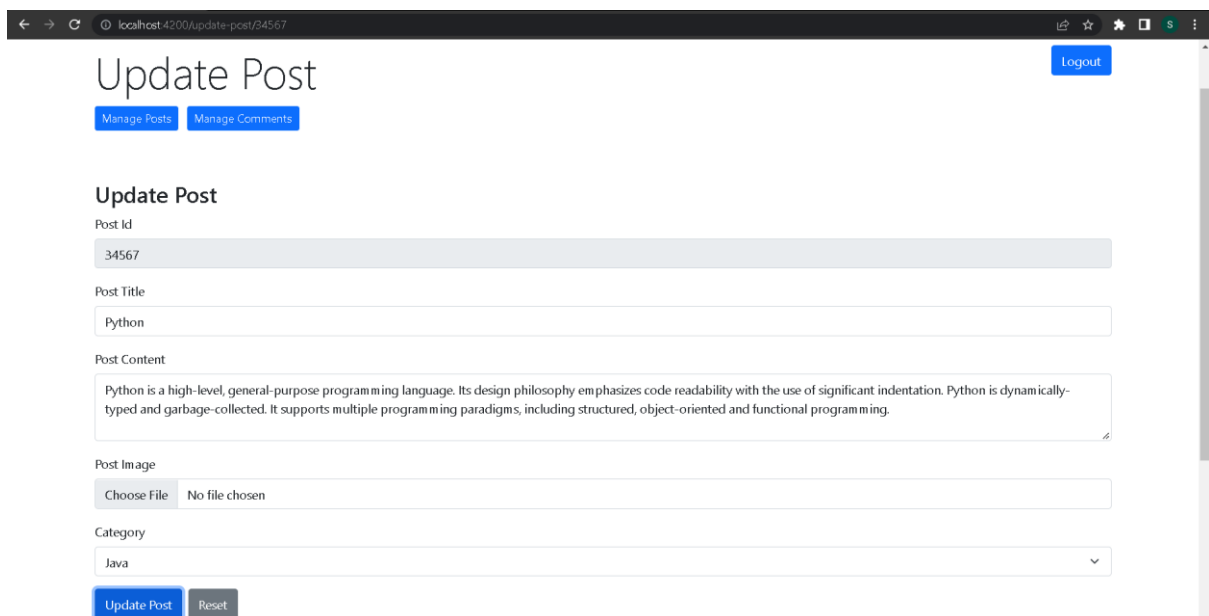


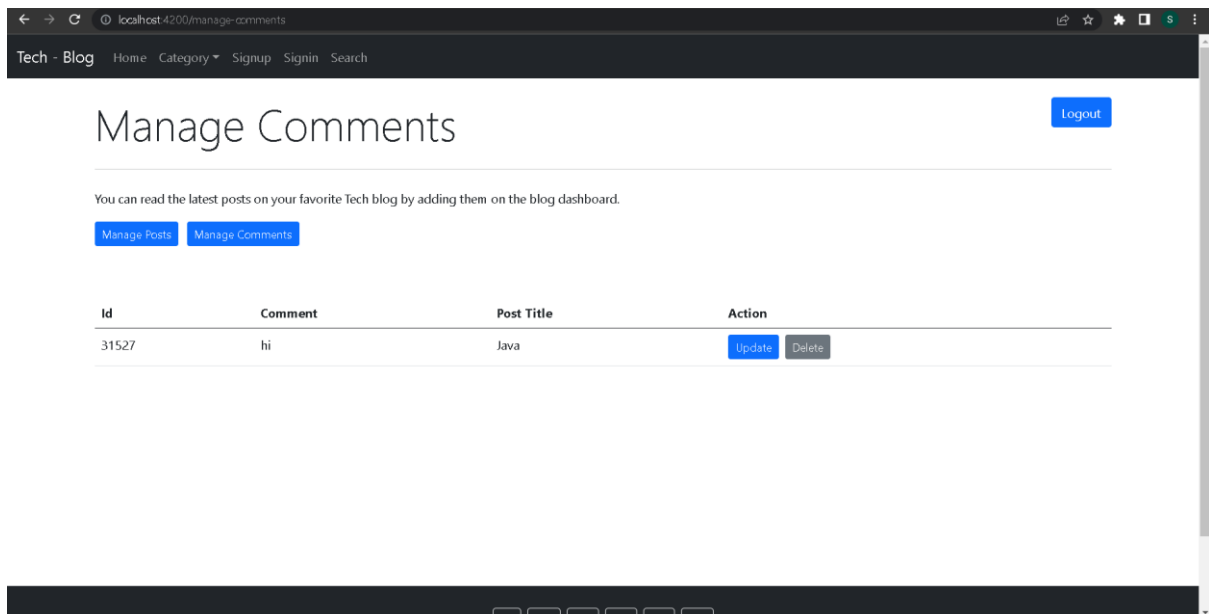


- User Delete their own post :



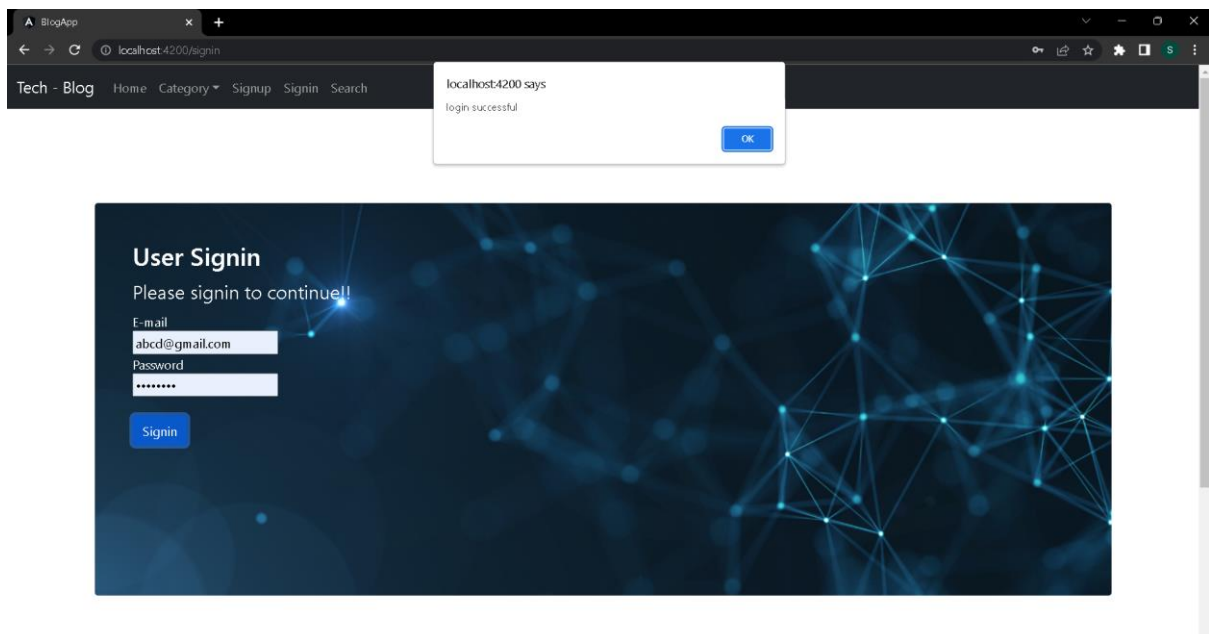
- User Update their own post :



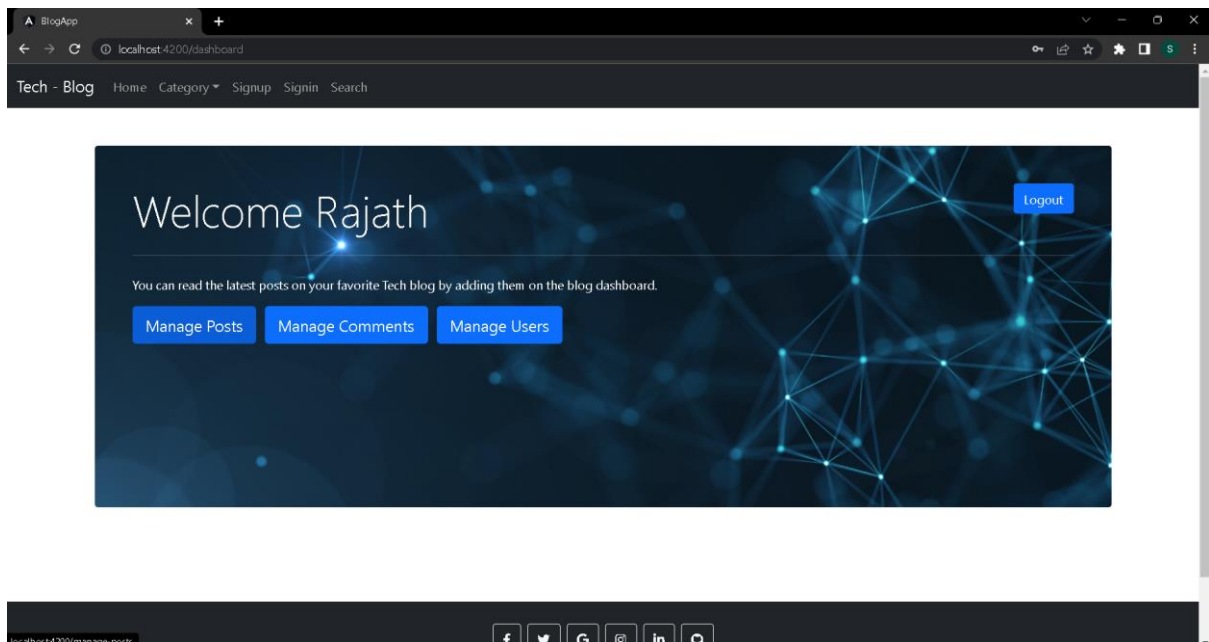


## Admin :

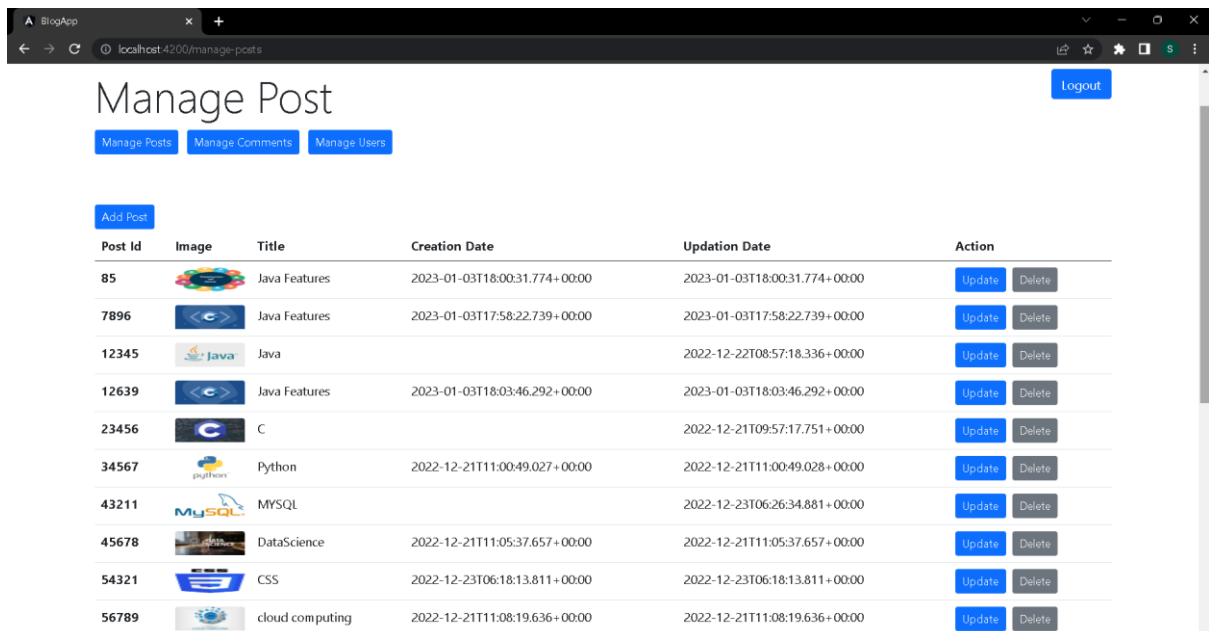
- SignIn Page :



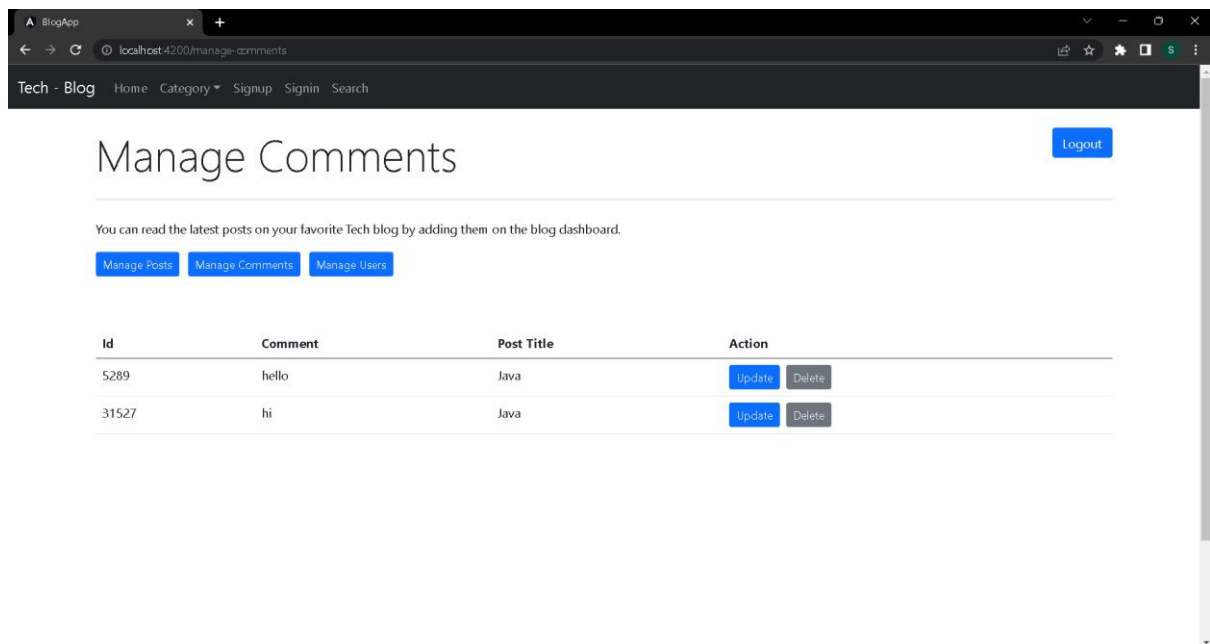
- Dashboard :



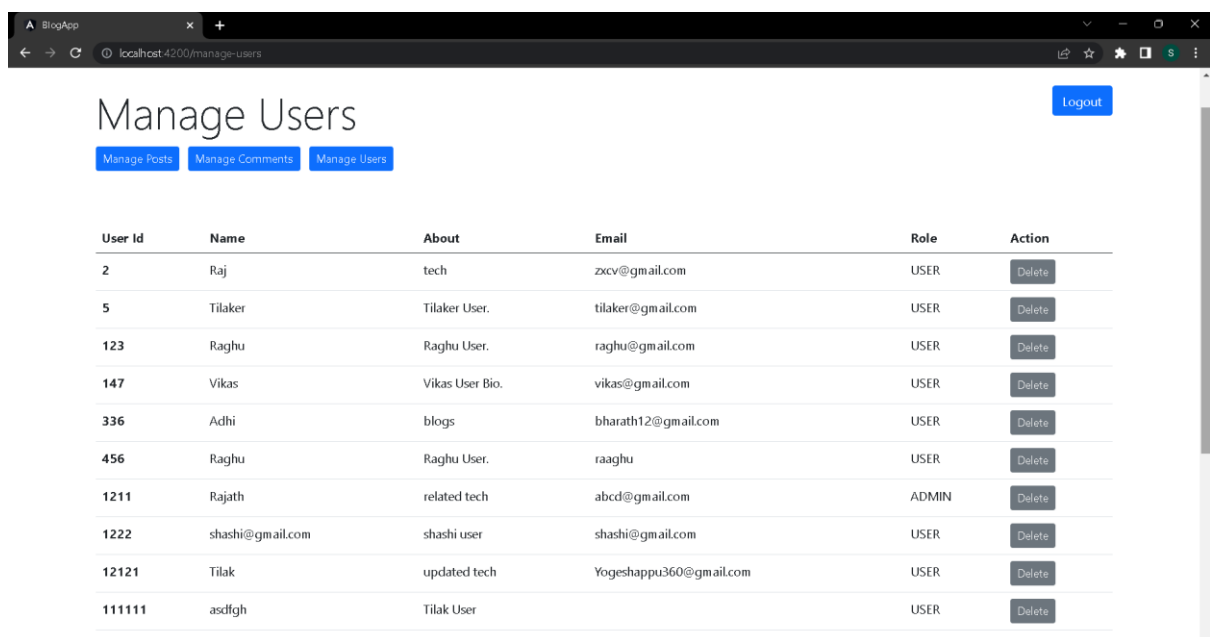
- Manage Post :



- Manage Comment :



- Manage Users :



- Manage Post:

localhost:4200 says  
Do you really want to delete this post?

OK Cancel Logout

## Manage Post

Manage Posts Manage Comments Manage Users

Add Post

Post Id	Image	Title	Creation Date	Updation Date	Action
85		Java Features	2023-01-03T18:00:31.774+00:00	2023-01-03T18:00:31.774+00:00	<a href="#">Update</a> <a href="#">Delete</a>
7896		Java Features	2023-01-03T17:58:22.739+00:00	2023-01-03T17:58:22.739+00:00	<a href="#">Update</a> <a href="#">Delete</a>
12345		Java		2022-12-22T08:57:18.336+00:00	<a href="#">Update</a> <a href="#">Delete</a>
12639		Java Features	2023-01-03T18:03:46.292+00:00	2023-01-03T18:03:46.292+00:00	<a href="#">Update</a> <a href="#">Delete</a>
23456		C		2022-12-21T09:57:17.751+00:00	<a href="#">Update</a> <a href="#">Delete</a>
34567		Python	2022-12-21T11:00:49.027+00:00	2022-12-21T11:00:49.028+00:00	<a href="#">Update</a> <a href="#">Delete</a>
43211		MYSQL		2022-12-23T06:26:34.881+00:00	<a href="#">Update</a> <a href="#">Delete</a>
45678		DataScience	2022-12-21T11:05:37.657+00:00	2022-12-21T11:05:37.657+00:00	<a href="#">Update</a> <a href="#">Delete</a>
54321		CSS	2022-12-23T06:18:13.811+00:00	2022-12-23T06:18:13.811+00:00	<a href="#">Update</a> <a href="#">Delete</a>

localhost:4200 says  
post deleted!!

OK Logout

## Manage Post

Manage Posts Manage Comments Manage Users

Add Post

Post Id	Image	Title	Creation Date	Updation Date	Action
7896		Java Features	2023-01-03T17:58:22.739+00:00	2023-01-03T17:58:22.739+00:00	<a href="#">Update</a> <a href="#">Delete</a>
12345		Java		2022-12-22T08:57:18.336+00:00	<a href="#">Update</a> <a href="#">Delete</a>
12639		Java Features	2023-01-03T18:03:46.292+00:00	2023-01-03T18:03:46.292+00:00	<a href="#">Update</a> <a href="#">Delete</a>
23456		C		2022-12-21T09:57:17.751+00:00	<a href="#">Update</a> <a href="#">Delete</a>
34567		Python	2022-12-21T11:00:49.027+00:00	2022-12-21T11:00:49.028+00:00	<a href="#">Update</a> <a href="#">Delete</a>
43211		MYSQL		2022-12-23T06:26:34.881+00:00	<a href="#">Update</a> <a href="#">Delete</a>
45678		DataScience	2022-12-21T11:05:37.657+00:00	2022-12-21T11:05:37.657+00:00	<a href="#">Update</a> <a href="#">Delete</a>
54321		CSS	2022-12-23T06:18:13.811+00:00	2022-12-23T06:18:13.811+00:00	<a href="#">Update</a> <a href="#">Delete</a>

**THANK YOU !!!**