A Project
Report On

Sport blog application

By

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Batch: 2022 – 7888

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Technical Trainer

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Introduction:

The sport blog app project provides access to the home page that contains all different kind of posts with different sport categories. It allows the user to view the posts in the application and comment on it. They can register to the application so that they can add their own post, update their own posts and comments.

I have developed this Application in **Java, Spring Boot and MySQL.** It's a web-based project so I have used **HTML, CSS, Angular and Bootstrap 5.**

- **Features: -**

1. **Sign-up Module:** This Module is used to add a new user by allowing the user to register to the application by entering User-name, User-id, Email, Date of birth, password, and their bio. Once the user is registered, they are navigated to sign-in.
2. **Sign-in Module:** This module is used for the registered user to enter their correct username and email for login to the dashboard.
3. **Dashboard:** The dashboard contains the operation the user can perform. It welcomes the registered user with its name. If it's a current user it can manage posts and comments and if it's an admin user he can manage posts, comments and users. User and admin logging out will navigate back to the sign in page.
4. **Category:** This module is used when a user and admin want to view a particular category of post by choosing from the dropdown menus. Once an option is chosen it navigates to the particular category of posts with its category name.
5. **Search:** This module is used to search the post based on the title name. If there is a post uploaded by the current user, it's all related posts will be shown in the search result. If there is no title related post uploaded by the user then it shows no posts found.

- **<u>Software Requirements:</u>**

- **Front end:** Angular, HTML, CSS, Bootstrap 5.
- **Back end**: MySQL workbench 8.0.23CE, java, Spring boot.
  Middleware/Server: Apache Tomcat v8.5. IDE: Spring Tool Suite (STS) for Java EE Developers.

  - **Browser:** Best result on Google Chrome
  - **Operating System:** Window 10.

Database Spring boot:

- **Create a Database sport blog db.**

MySQL 8.0 Command Line Client

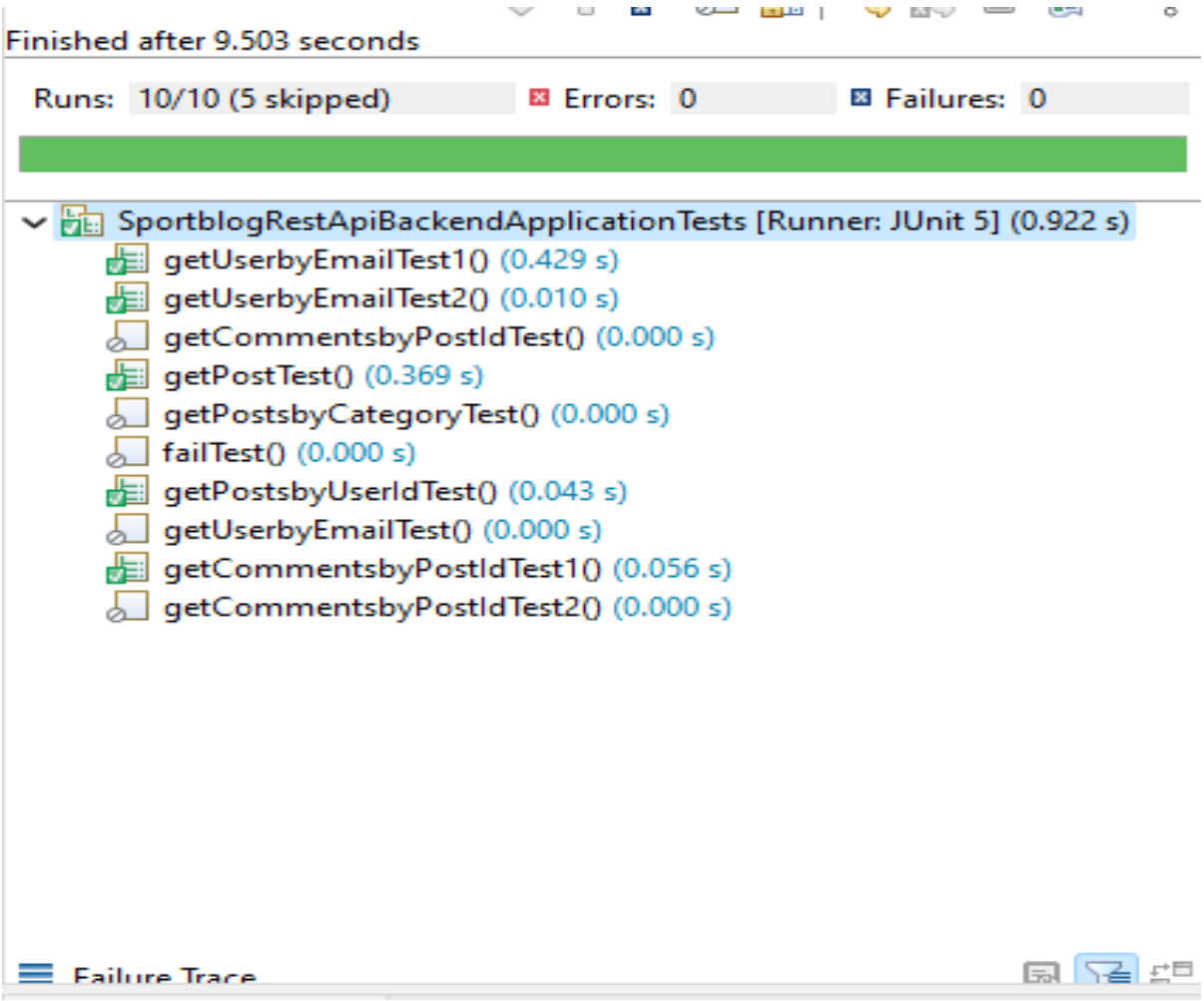
```
mysql> use sportblogdb;
Database changed
mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| bankingdb          |
| blogappdb          |
| darshandb          |
| hibernatedb        |
| hqldb              |
| information_schema |
| joinexamples       |
| joinexmaples       |
| mapdb              |
| mappingdb          |
| mvcdb              |
| mysql              |
| performance_schema |
| rest1db            |
| restdb             |
| sportblogdb        |
| studentdb          |
| studentdbms        |
| sys                |
+--------------------+
19 rows in set (0.02 sec)

mysql>
```

- **Tables of sport blog database**

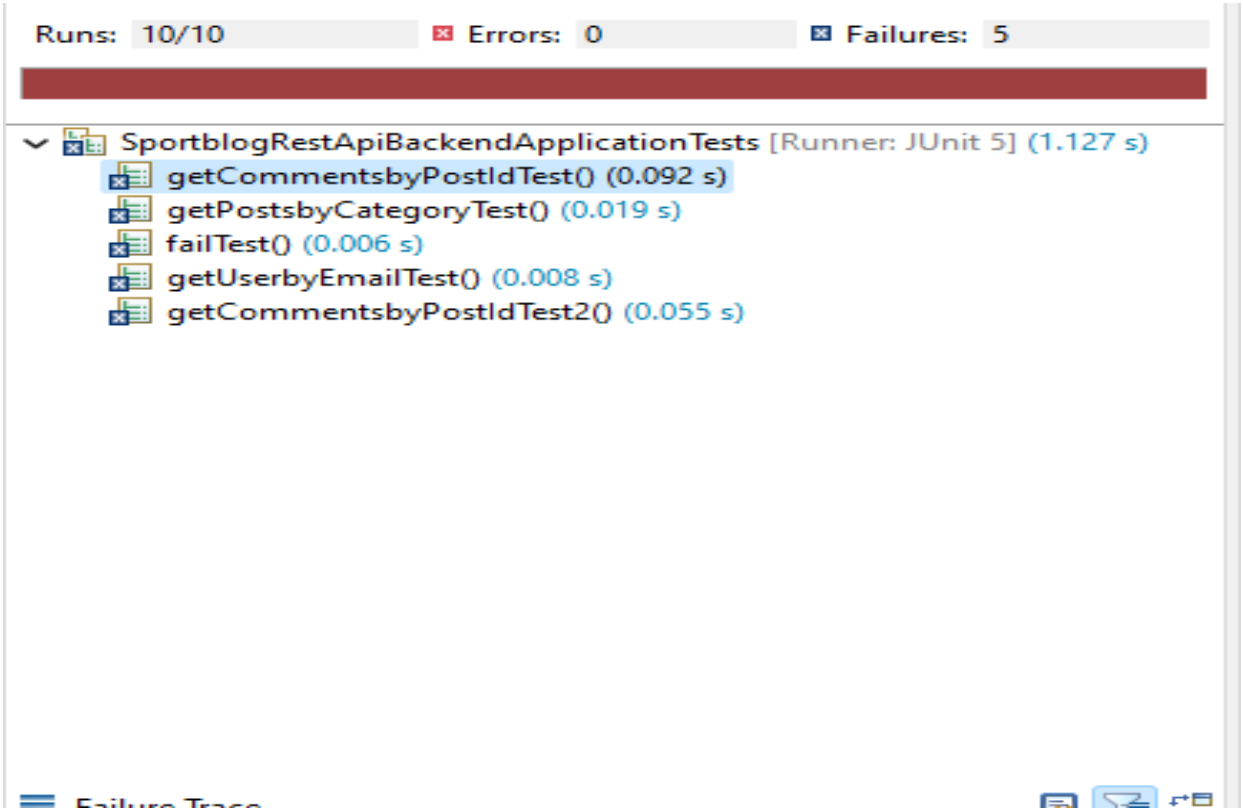
MySQL 8.0 Command Line Client

```
mysql> desc post;
+---------------+-------------+------+-----+---------+-------+
| Field         | Type        | Null | Key | Default | Extra |
+---------------+-------------+------+-----+---------+-------+
| post_id       | bigint      | NO   | PRI | NULL    |       |
| post_content  | varchar(500) | NO   |     | NULL    |       |
| post_creation | datetime(6) | YES  |     | NULL    |       |
| post_image    | longblob    | NO   |     | NULL    |       |
| post_title    | varchar(100) | NO   |     | NULL    |       |
| post_updation | datetime(6) | YES  |     | NULL    |       |
| category_id   | bigint      | YES  | MUL | NULL    |       |
| user_id       | bigint      | YES  | MUL | NULL    |       |
+---------------+-------------+------+-----+---------+-------+
8 rows in set (0.01 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    |       |
| role          | varchar(20) | NO   |     | NULL    |       |
| user_email    | varchar(50) | YES  | UNI | NULL    |       |
| user_name     | varchar(100) | NO   |     | NULL    |       |
| user_password | varchar(20) | YES  |     | NULL    |       |
+---------------+-------------+------+-----+---------+-------+
7 rows in set (0.00 sec)

mysql> desc comment;
+------------+-------------+------+-----+---------+-------+
| Field      | Type        | Null | Key | Default | Extra |
+------------+-------------+------+-----+---------+-------+
| comment_id | bigint      | NO   | PRI | NULL    |       |
| content    | varchar(500) | NO   |     | NULL    |       |
| post_id    | bigint      | YES  | MUL | NULL    |       |
| user_id    | bigint      | YES  | MUL | NULL    |       |
+------------+-------------+------+-----+---------+-------+
4 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>
```

- **Spring boot j-unit test cases**
  - **Pass test case**



- **Fail Test Case**



- **Spring boot sports blog backend running application**

```
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( ( )\___ | '_ | '_| | '_ \/ _` | \ \ \ \
 \\/  ___)| |_)| | | | | || (_| |  ) ) ) )
  '  |____| .__|_| |_|_| |_\__, | / / / /
 =========|_|==============|___/=/_/_/_/
 :: Spring Boot ::                (v2.7.6)

2023-01-01 14:58:55.047  INFO 37064 --- [  restartedMain] o.b.SportblogRestApiBackendApplication   : Starting SportblogRestApiBackendApplication using Java 18.0.2.1 on LAPTOP-JOPVAU16 with PID
2023-01-01 14:58:55.051  INFO 37064 --- [  restartedMain] o.b.SportblogRestApiBackendApplication   : No active profile set, falling back to 1 default profile: "default"
2023-01-01 14:58:55.119  INFO 37064 --- [  restartedMain] .e.DevToolsPropertyDefaultsPostProcessor : Devtools property defaults active! Set 'spring.devtools.add-properties' to 'false' to disab
2023-01-01 14:58:55.119  INFO 37064 --- [  restartedMain] .e.DevToolsPropertyDefaultsPostProcessor : For additional web related logging consider setting the 'logging.level.web' property to 'DE
2023-01-01 14:58:56.087  INFO 37064 --- [  restartedMain] .s.d.r.c.RepositoryConfigurationDelegate : Bootstrapping Spring Data JPA repositories in DEFAULT mode.
2023-01-01 14:58:56.142  INFO 37064 --- [  restartedMain] .s.d.r.c.RepositoryConfigurationDelegate : Finished Spring Data repository scanning in 46 ms. Found 4 JPA repository interfaces.
2023-01-01 14:58:56.725  INFO 37064 --- [  restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer  : Tomcat initialized with port(s): 8080 (http)
2023-01-01 14:58:56.734  INFO 37064 --- [  restartedMain] o.apache.catalina.core.StandardService   : Starting service [Tomcat]
2023-01-01 14:58:56.734  INFO 37064 --- [  restartedMain] org.apache.catalina.core.StandardEngine  : Starting Servlet engine: [Apache Tomcat/9.0.69]
2023-01-01 14:58:56.812  INFO 37064 --- [  restartedMain] o.a.c.c.C.[Tomcat].[localhost].[/]       : Initializing Spring embedded WebApplicationContext
2023-01-01 14:58:56.812  INFO 37064 --- [  restartedMain] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in 1691 ms
2023-01-01 14:58:56.951  INFO 37064 --- [  restartedMain] o.hibernate.jpa.internal.util.LogHelper  : HHH000204: Processing PersistenceUnitInfo [name: default]
2023-01-01 14:58:56.994  INFO 37064 --- [  restartedMain] org.hibernate.Version                    : HHH000412: Hibernate ORM core version 5.6.14.Final
2023-01-01 14:58:57.137  INFO 37064 --- [  restartedMain] o.hibernate.annotations.common.Version   : HCANN000001: Hibernate Commons Annotations {5.1.2.Final}
2023-01-01 14:58:57.223  INFO 37064 --- [  restartedMain] com.zaxxer.hikari.HikariDataSource       : HikariPool-1 - Starting...
2023-01-01 14:58:57.508  INFO 37064 --- [  restartedMain] com.zaxxer.hikari.HikariDataSource       : HikariPool-1 - Start completed.
2023-01-01 14:58:57.534  INFO 37064 --- [  restartedMain] org.hibernate.dialect.Dialect            : HHH000400: Using dialect: org.hibernate.dialect.MySQL8Dialect
2023-01-01 14:58:58.383  INFO 37064 --- [  restartedMain] o.h.e.t.j.p.i.JtaPlatformInitiator       : HHH000490: Using JtaPlatform implementation: [org.hibernate.engine.transaction.jta.platform
2023-01-01 14:58:58.392  INFO 37064 --- [  restartedMain] j.LocalContainerEntityManagerFactoryBean : Initialized JPA EntityManagerFactory for persistence unit 'default'
2023-01-01 14:58:58.936  WARN 37064 --- [  restartedMain] JpaBaseConfiguration$JpaWebConfiguration : spring.jpa.open-in-view is enabled by default. Therefore, database queries may be performed
2023-01-01 14:58:59.173  INFO 37064 --- [  restartedMain] o.s.b.d.a.OptionalLiveReloadServer       : LiveReload server is running on port 35729
2023-01-01 14:58:59.342  INFO 37064 --- [  restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer  : Tomcat started on port(s): 8080 (http) with context path ''
2023-01-01 14:58:59.351  INFO 37064 --- [  restartedMain] d.s.w.p.DocumentationPluginsBootstrapper : Context refreshed
2023-01-01 14:58:59.368  INFO 37064 --- [  restartedMain] d.s.w.p.DocumentationPluginsBootstrapper : Found 1 custom documentation plugin(s)
2023-01-01 14:58:59.375  INFO 37064 --- [  restartedMain] s.d.s.w.s.ApiListingReferenceScanner     : Scanning for api listing references
2023-01-01 14:58:59.503  INFO 37064 --- [  restartedMain] .d.s.w.r.o.CachingOperationNameGenerator : Generating unique operation named: getAllCategoriesUsingGET_1
2023-01-01 14:58:59.592  INFO 37064 --- [  restartedMain] o.b.SportblogRestApiBackendApplication   : Started SportblogRestApiBackendApplication in 4.862 seconds (JVM running for 5.648)
```
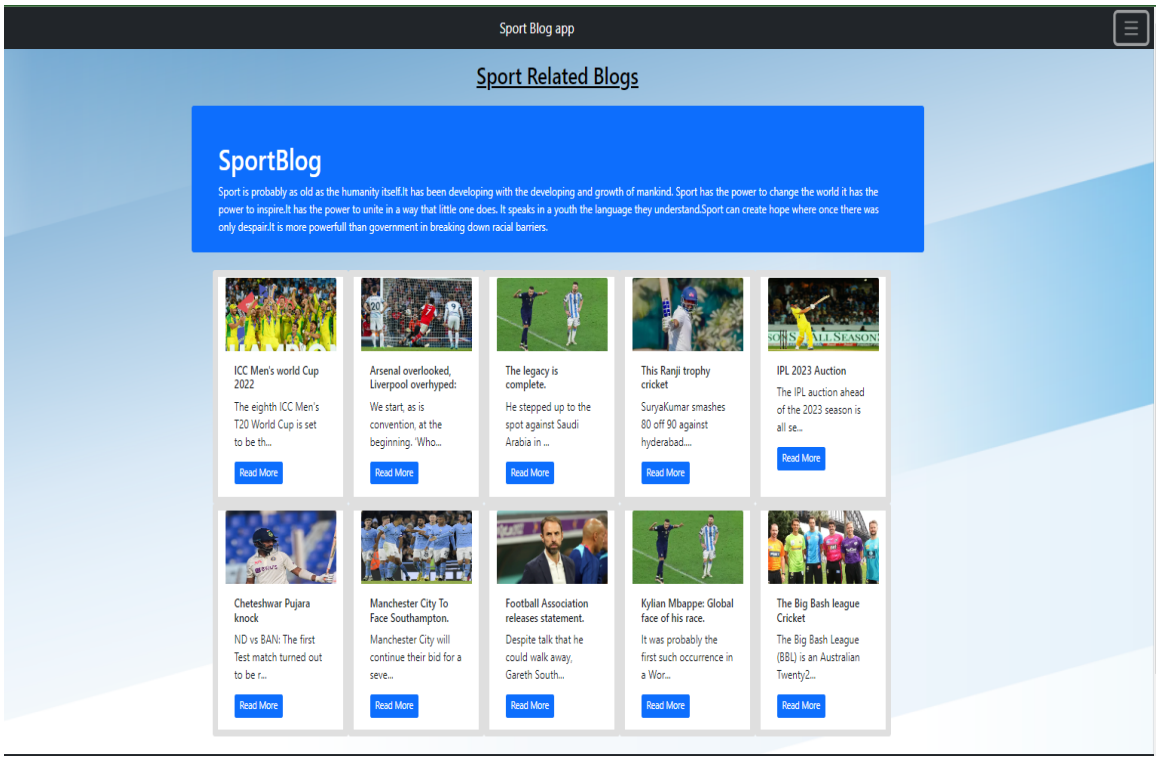
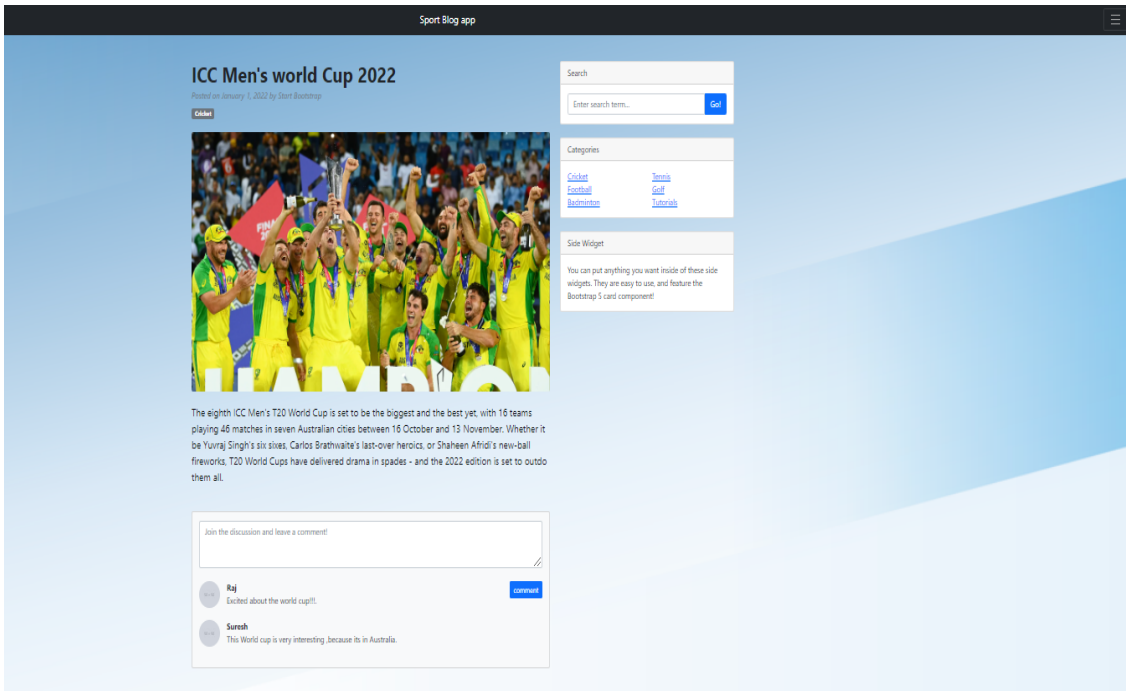
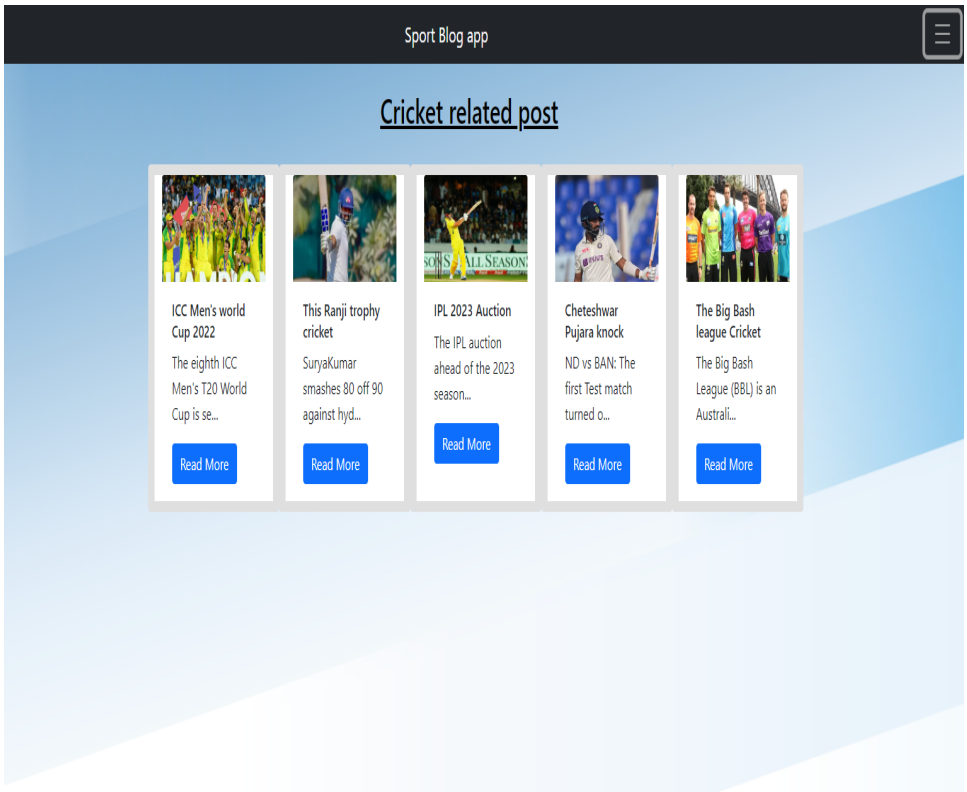

- **Front-End: Home page**



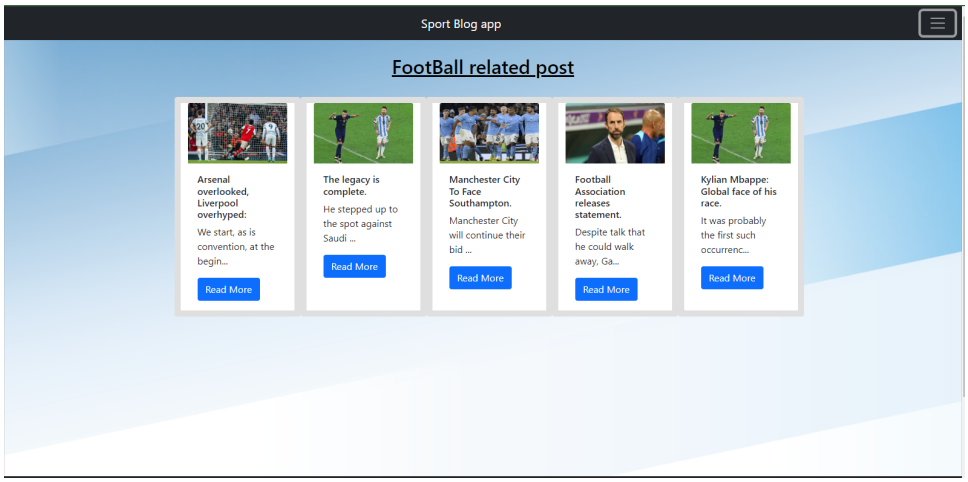
- **View a post**



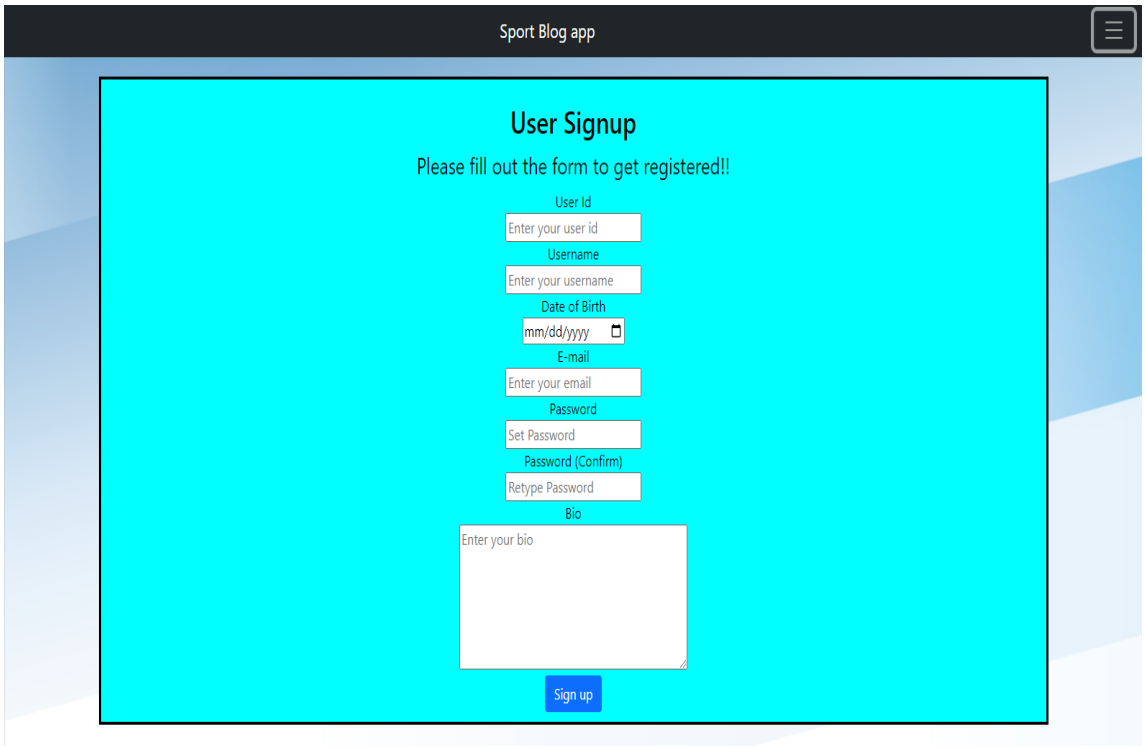
- **View Category related post**
  - **Cricket Related Post**



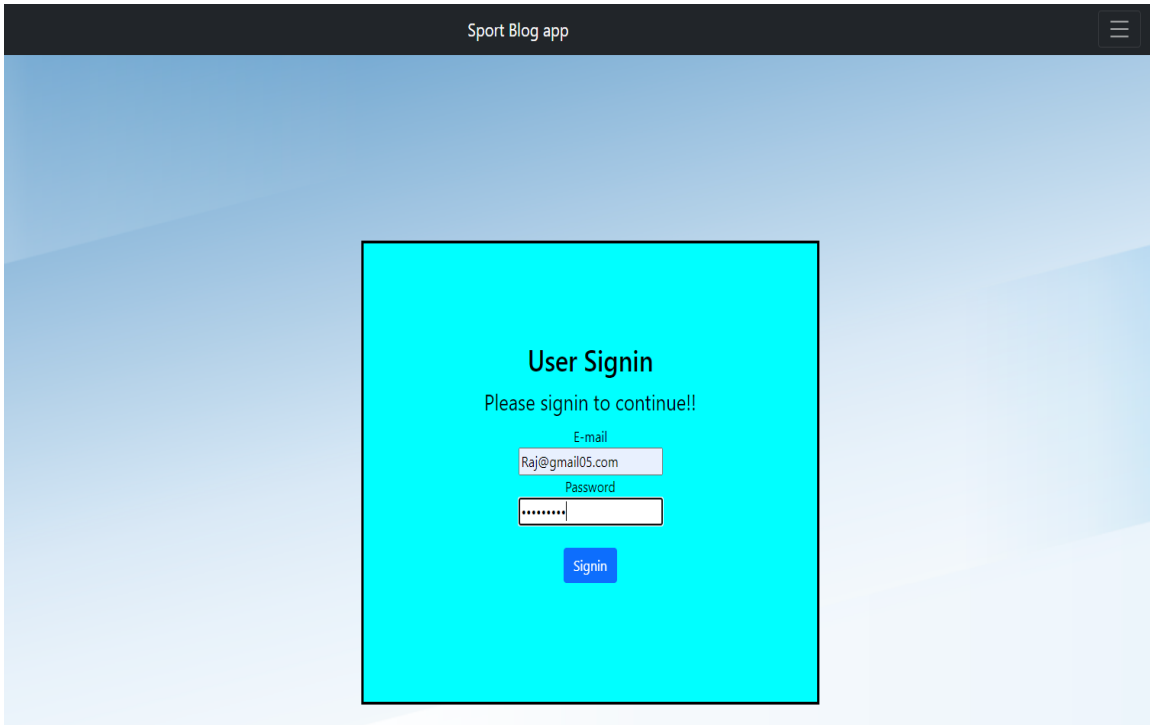
- **Football Related Post**



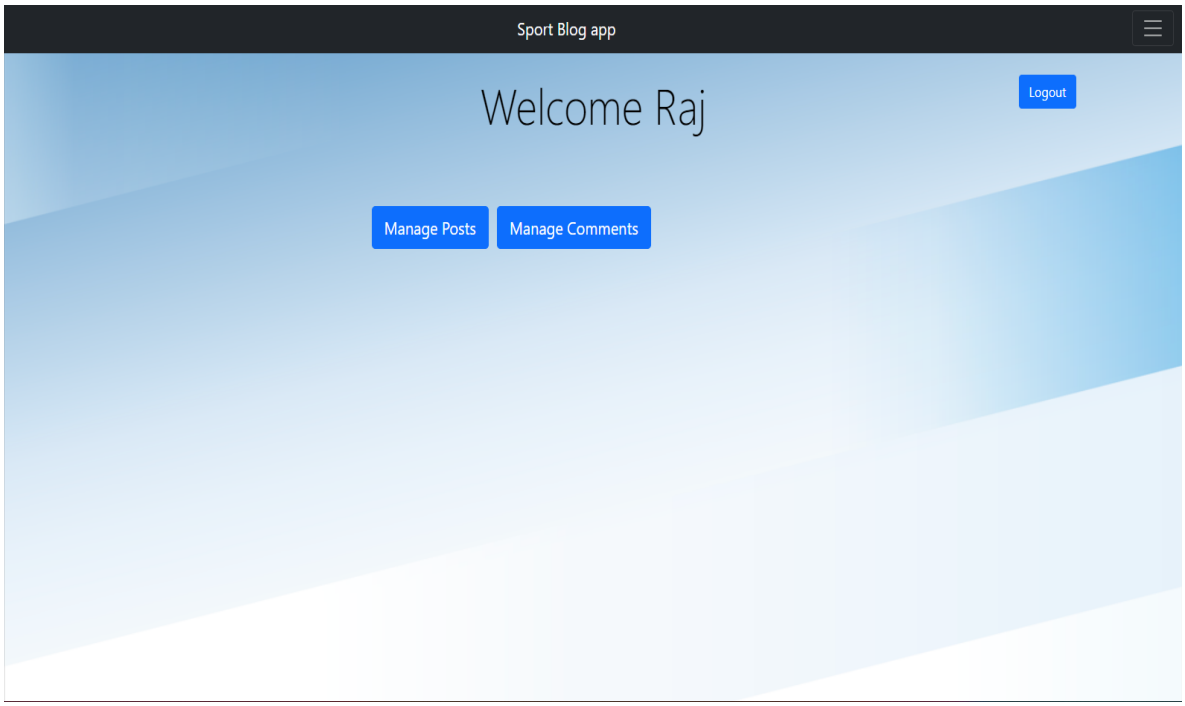
- **Signup User**



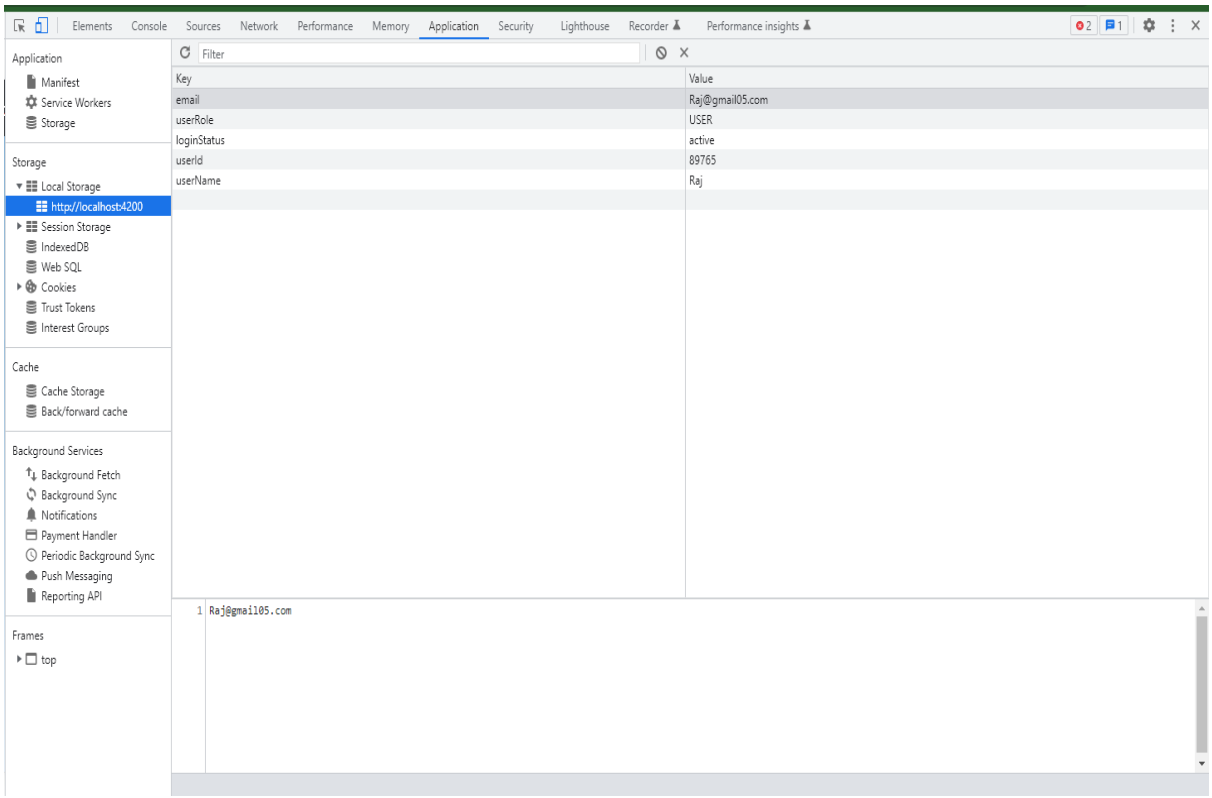
Sign in User



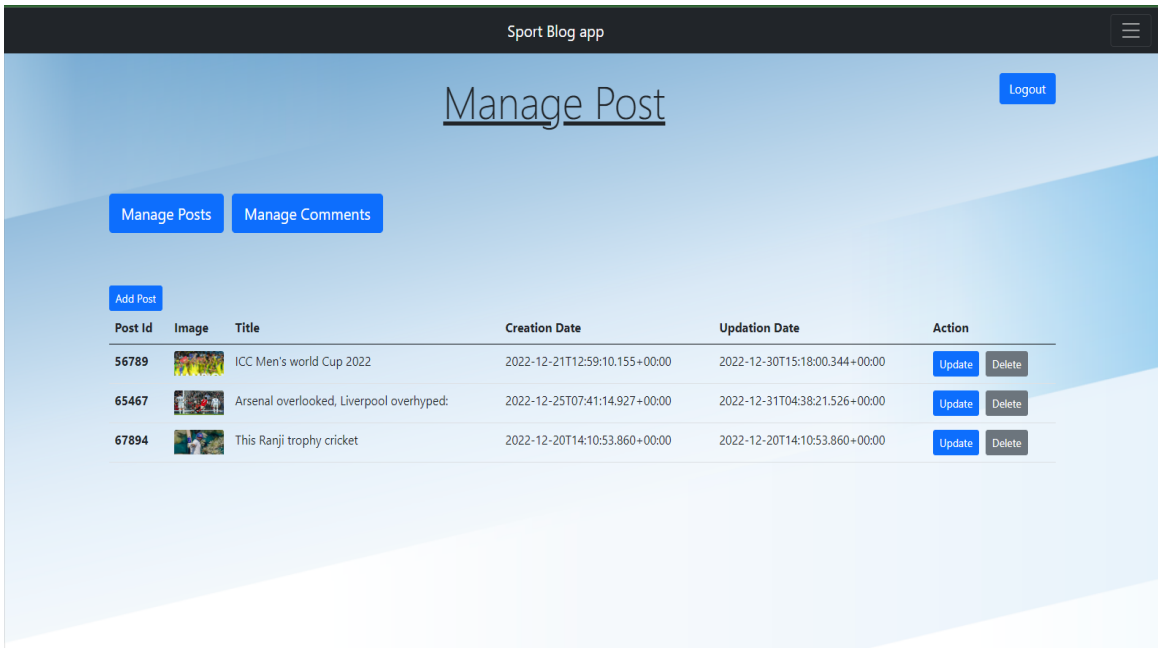
Dashboard User



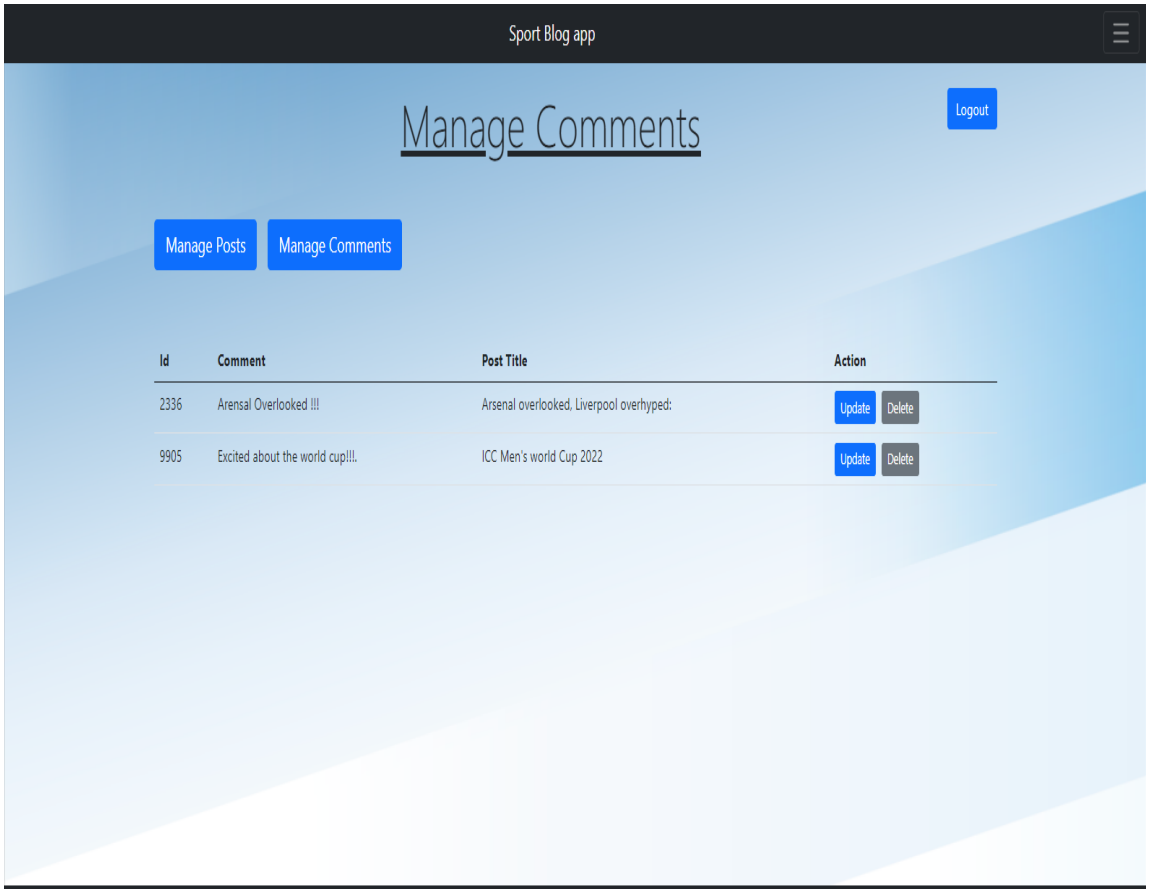
- **User Status Login**



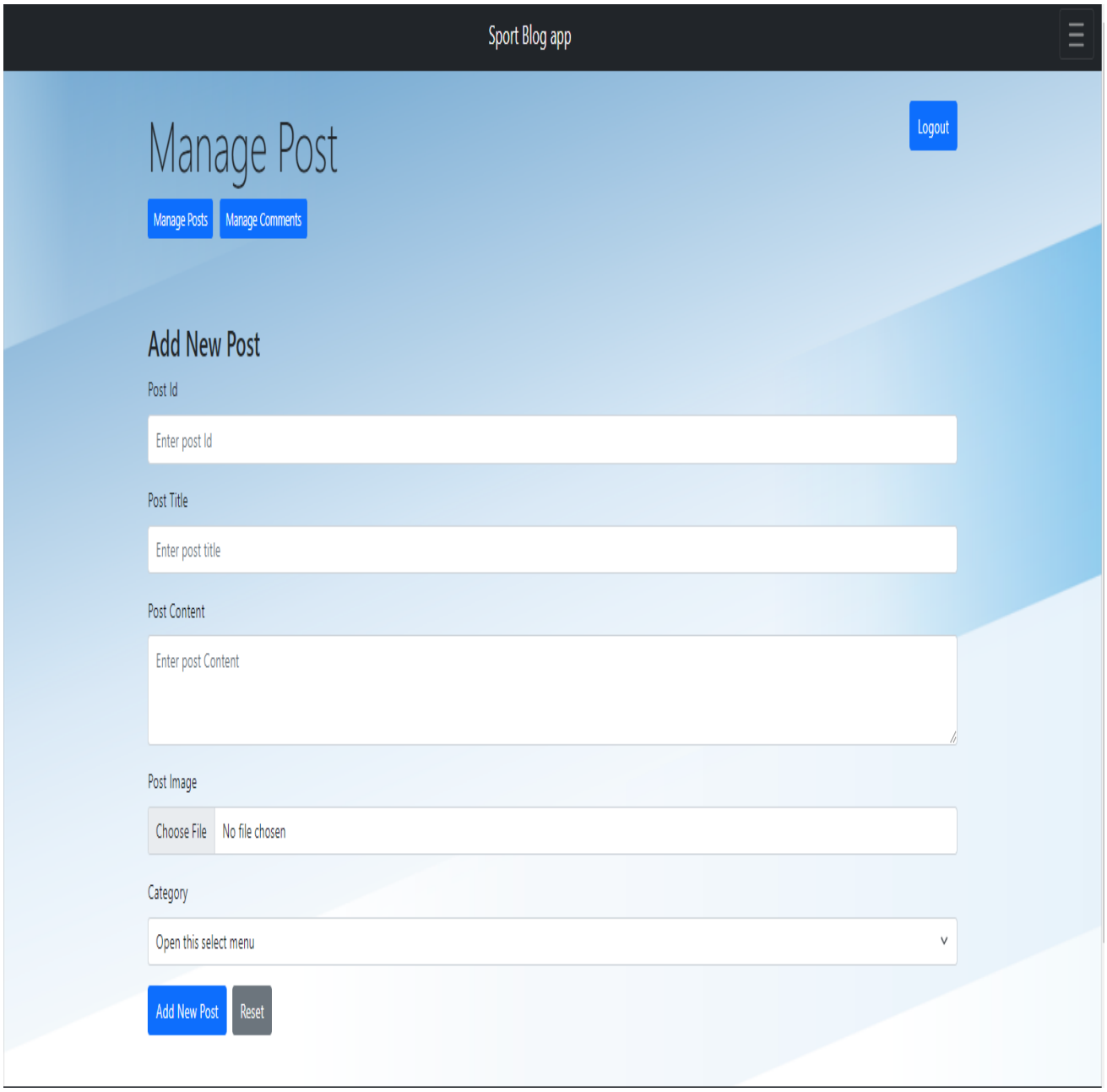
Manage Posts User



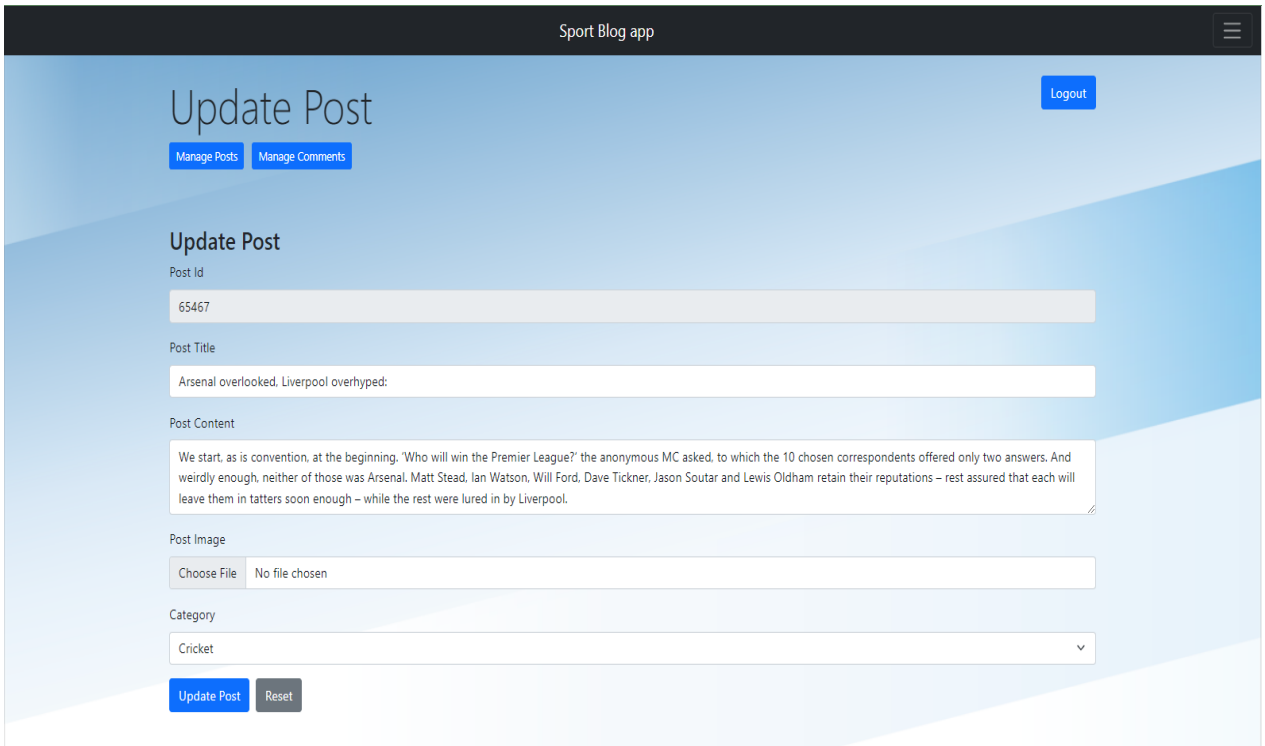
- ## Manage Comments User



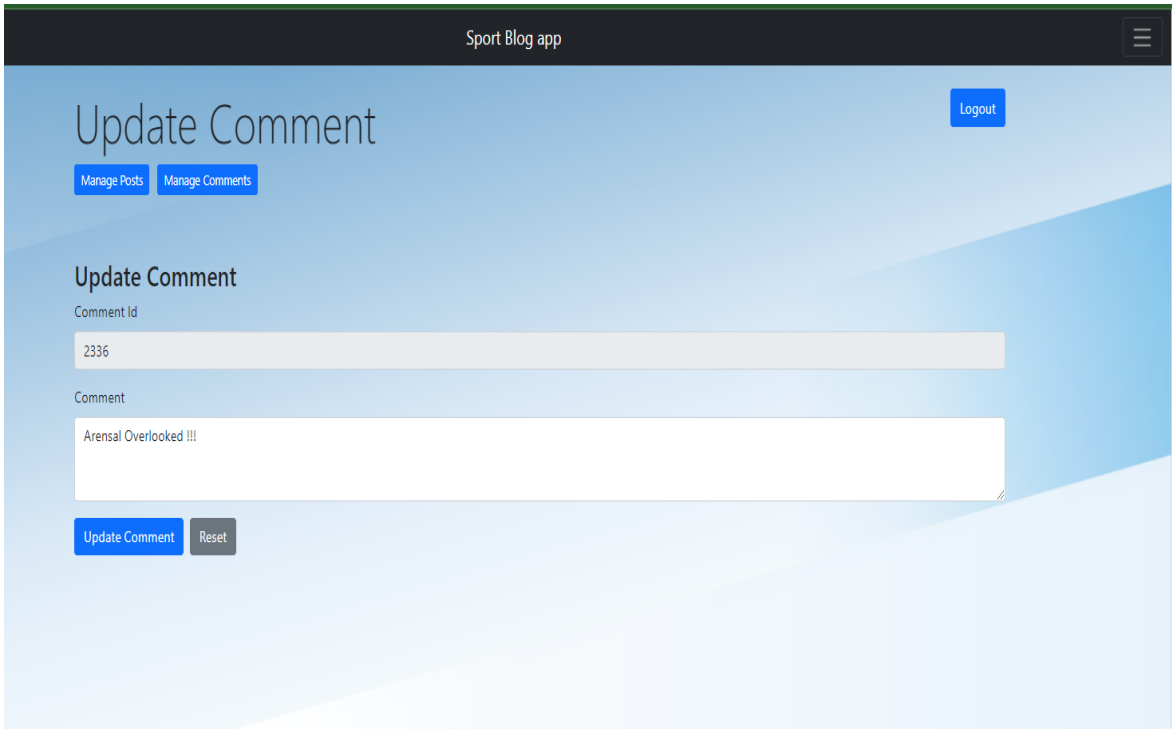
Add new post User



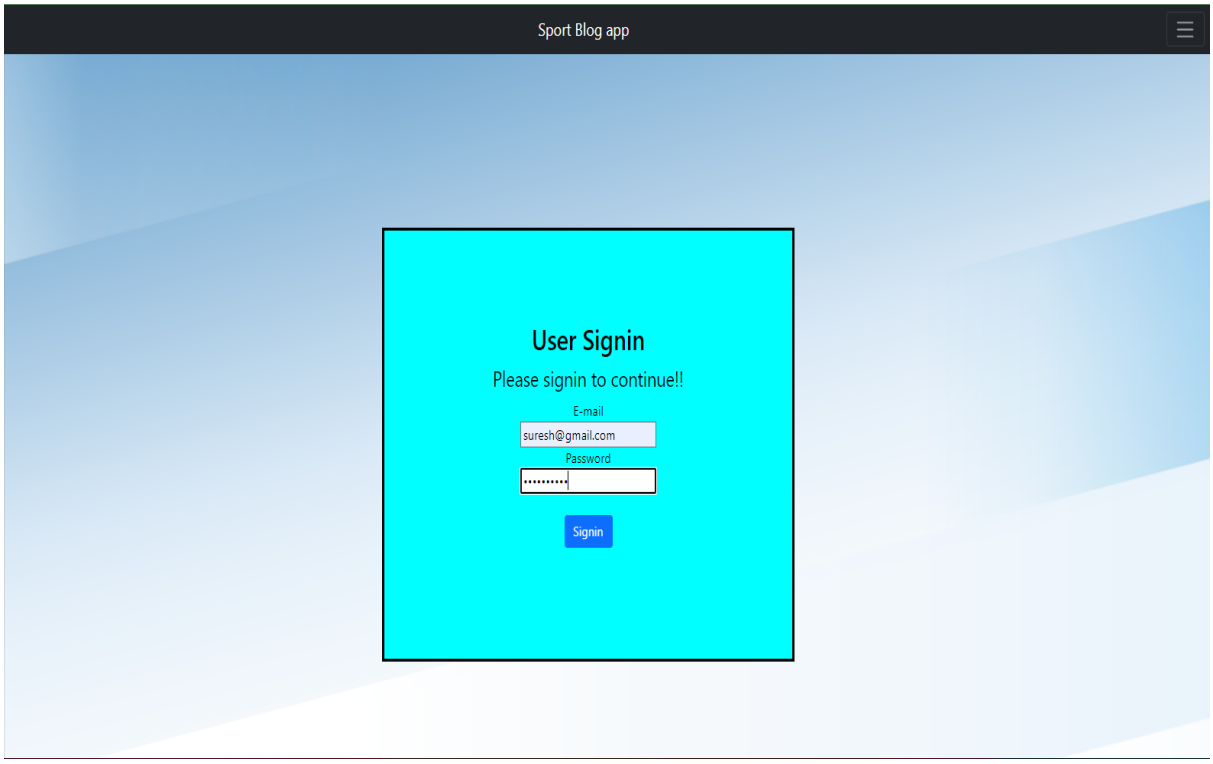
- **Update post**



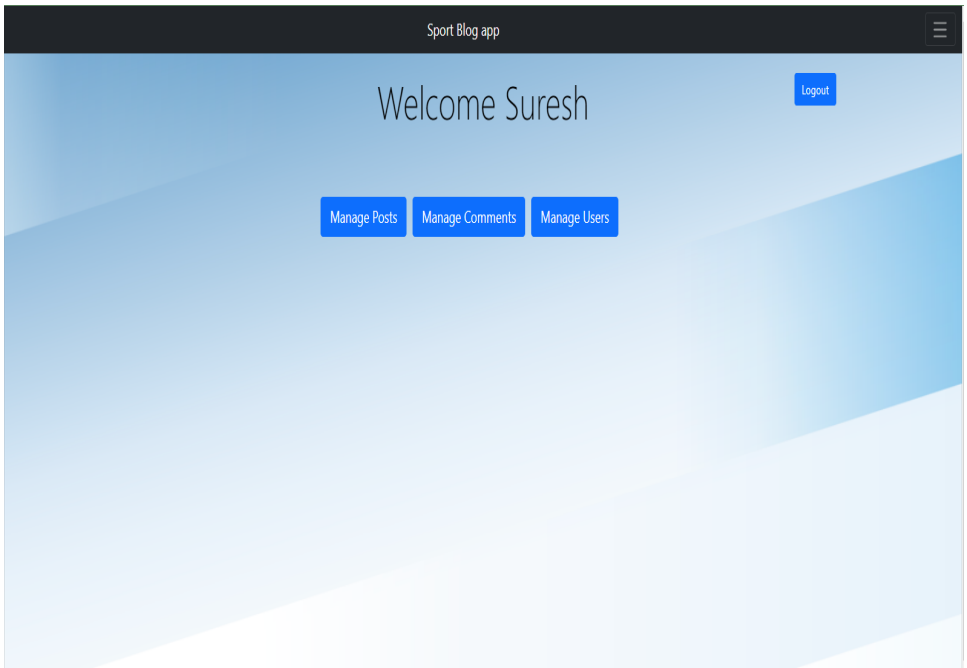
- **Update Comment**



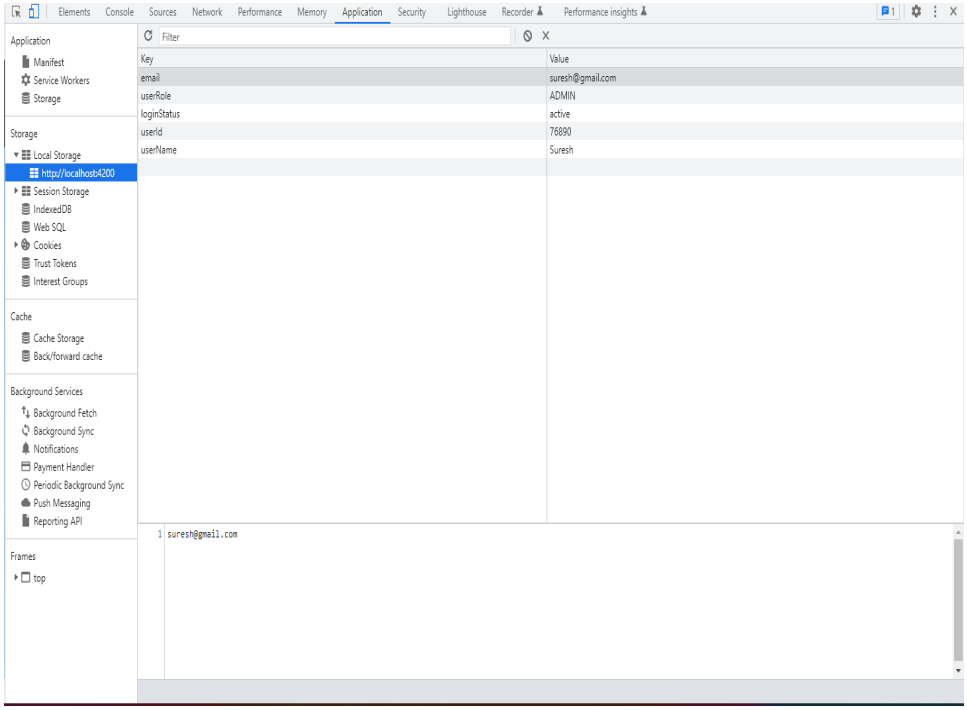
Admin Sign-in



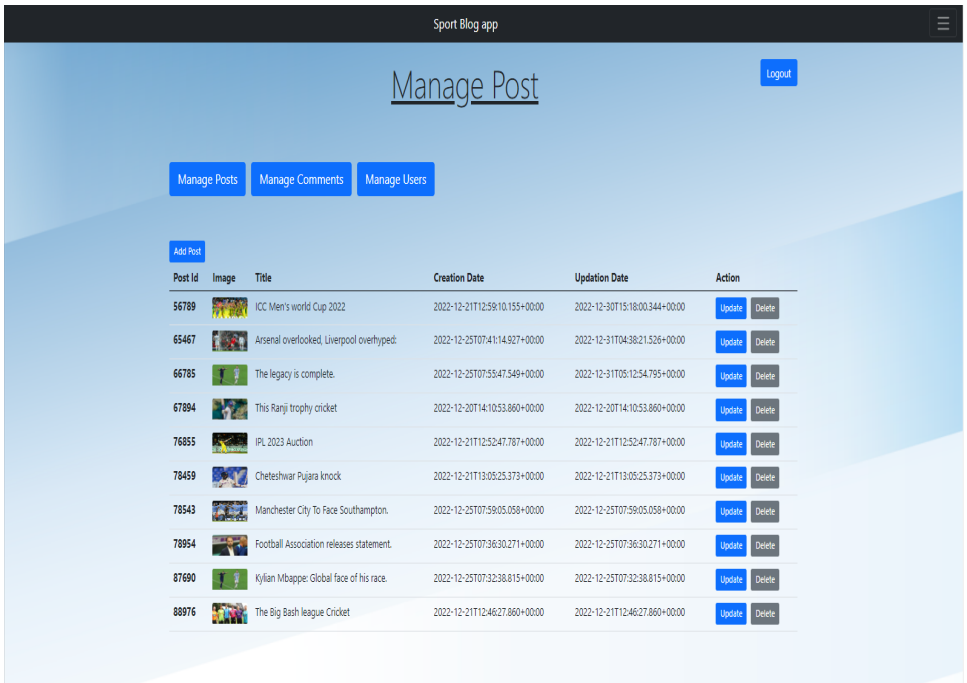
- **Admin Dashboard**



- **Admin login status**

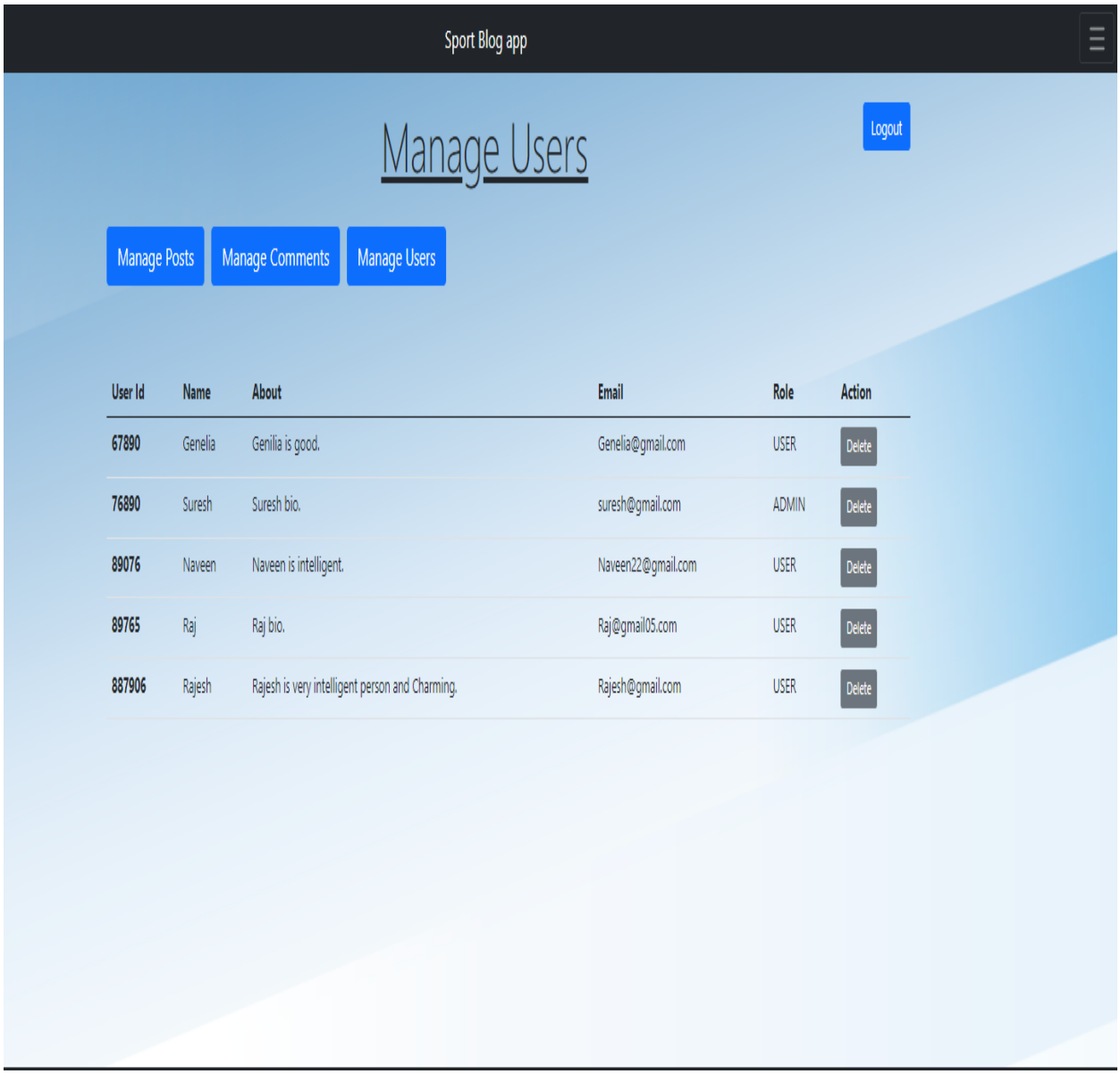


- **Manage posts Admin User**

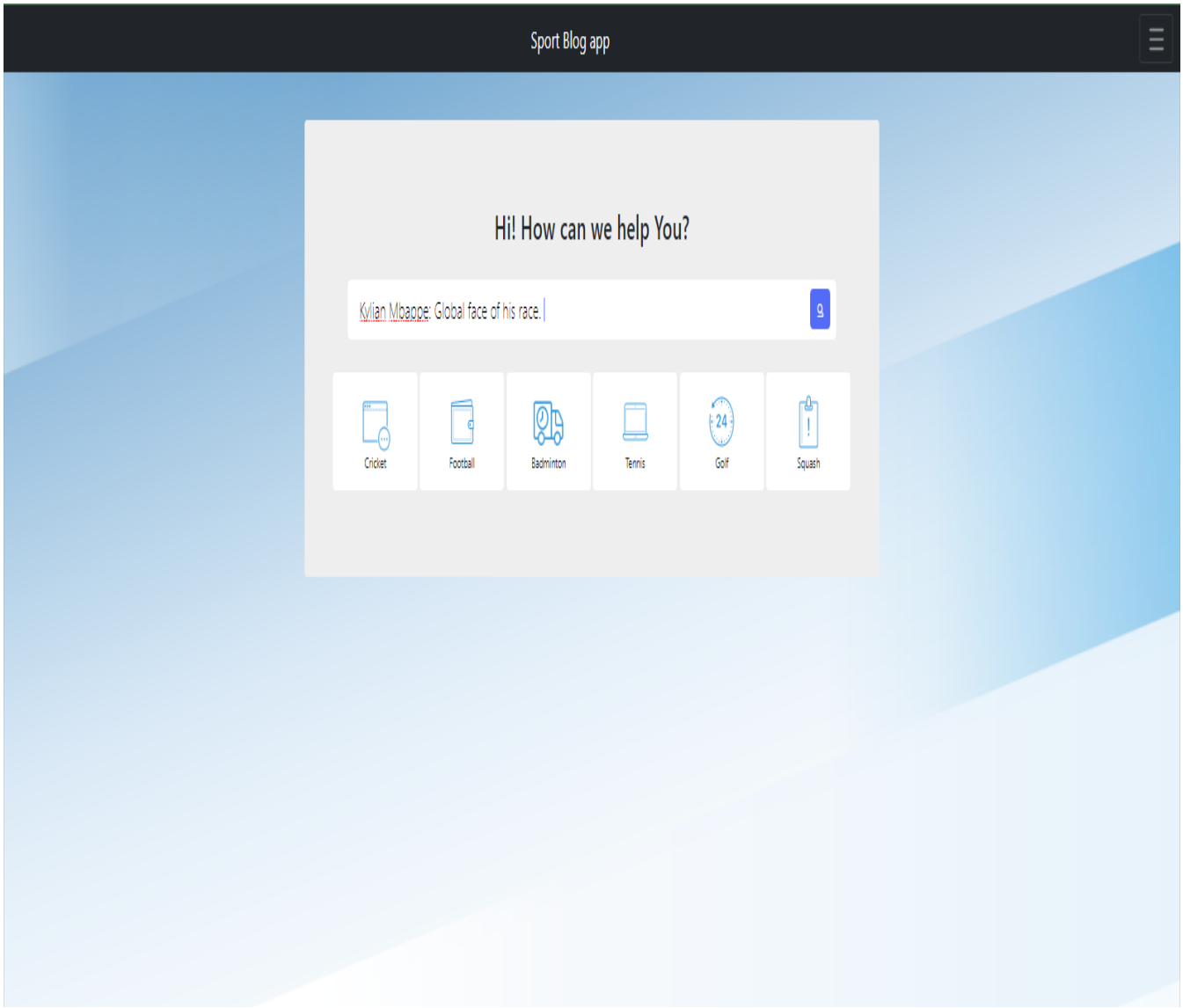


- **Manage comments Admin user.**

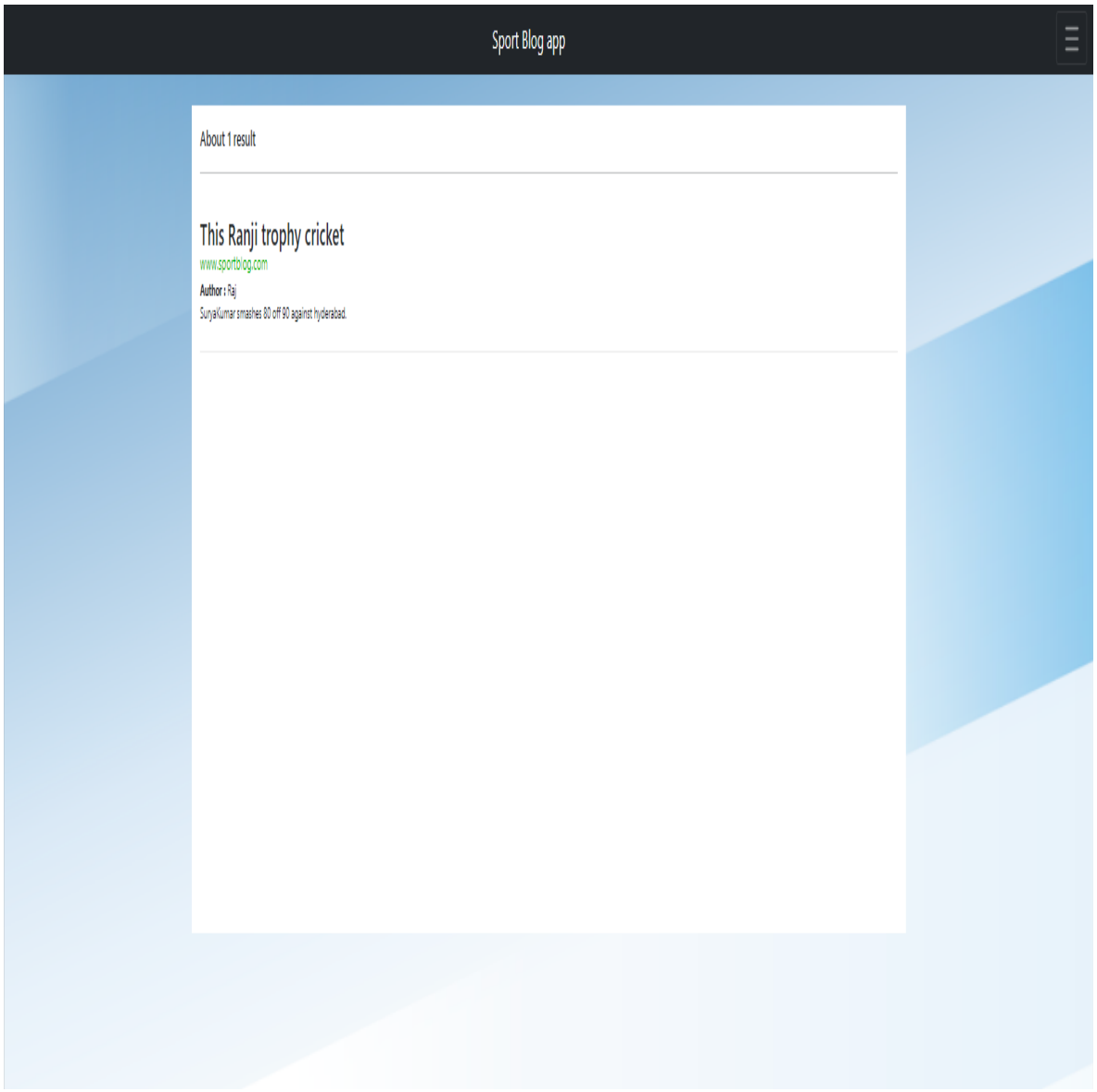
- **Manage Users Admin**



- **Post Search with Right Title**

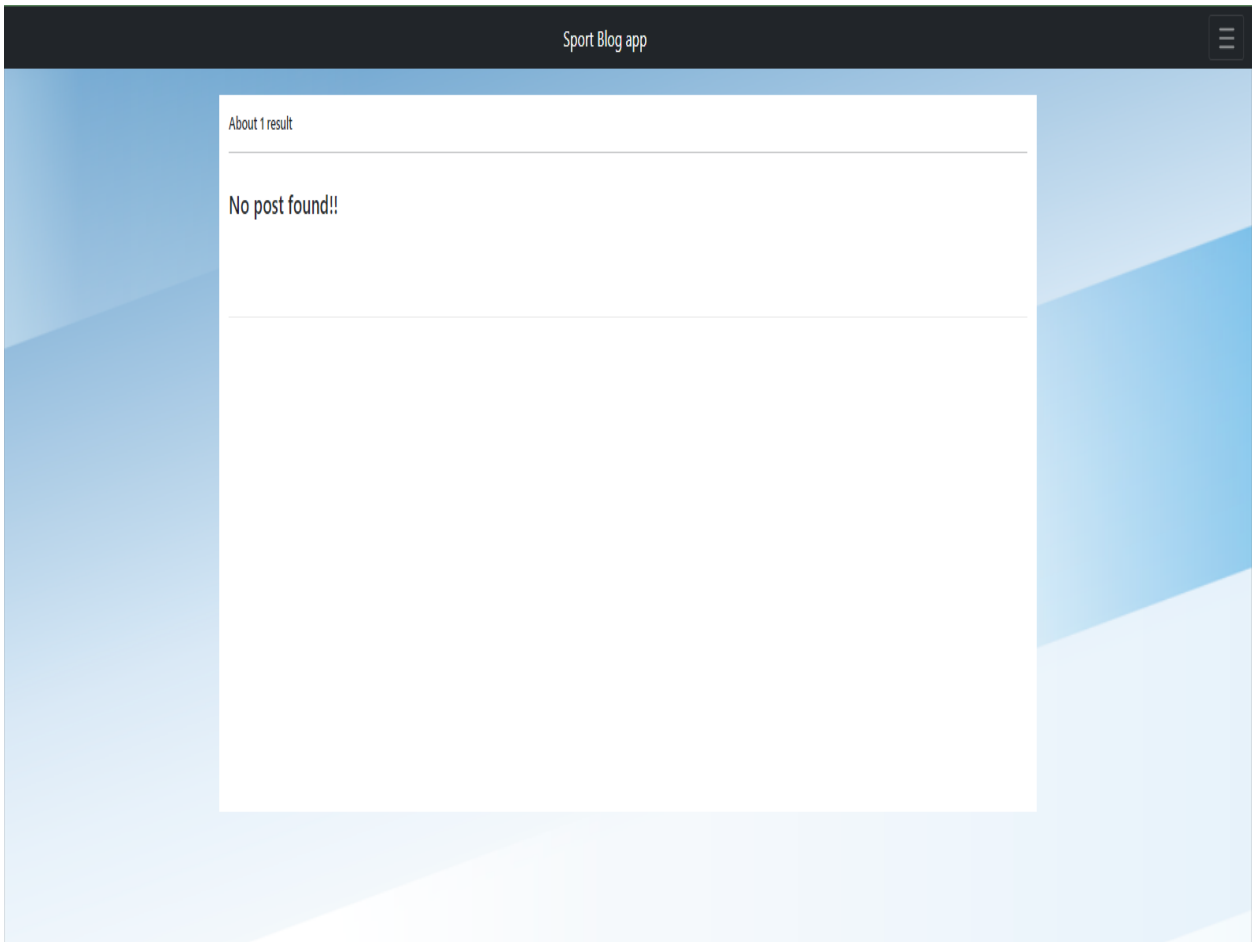


- **Search result with Valid title**



- **Post Search with Invalid title**

- **Search result with invalid title**



THANK YOU