



(1) Project Title
Sports News Aggregator System (SPORTS CENTRAL)
(2) Project Proponent
Al Gene Tarriela Allen Zaki Antonio
(3) Program/Project Proponent's Department/College/Office
DCPET, Institute Technology, PUP- MANILA





(8) Significance

Project Background :

Sports News Aggregator System was created to provide sports fans with a consolidated platform where they can obtain the most recent news from different sports disciplines, leagues, and teams. In order to provide sports fans with a consolidated platform where they can obtain the most recent news from different sports disciplines, leagues, and teams, the Sports News Aggregator System was created. In this age of information overload, sports fans frequently find it difficult to stay up to date because sports news is dispersed among multiple websites and media outlets. With the help of a simple interface and a collection of news from several reliable sources, this technology seeks to speed up the procedure. The site aims to improve sports fans' global sports consumption experience by offering timely and relevant news.

By providing a consistent and all-encompassing perspective of the sports world, this centralized approach not only saves users time but also improves their experience. Through the utilization of contemporary online technologies, programming interfaces for applications, and data processing methods, the Sports News Aggregator System will guarantee prompt and precise updates, meeting the varied needs of sports enthusiasts worldwide.

The project's ultimate objective is to provide a user-friendly platform that provides top-notch, timely, and relevant sports news, enhancing users' interactions with their preferred sports.

(9) Objectives



<p>Centralize sports news: Their primary aim might be to offer a one-stop shop for sports fans, providing them with easy access to news articles, analyses, and insights from a variety of reliable sources across different sports. This saves users time and effort from searching for news on individual sports websites.</p> <p>Provide diverse sports coverage: They might aim to cover a wide range of sports, catering to fans with different interests. This could include everything from major leagues like basketball and football to niche sports like badminton or curling.</p> <p>Offer a curated experience: Sports Central might filter and select news stories to deliver the most relevant and interesting content to their audience. This could involve editorial decisions on the types of stories they choose or personalization based on user preferences.</p> <p>Increase user engagement: Their goal could be to keep users coming back for more by offering a variety of content formats like news articles, videos, podcasts, or interactive features.</p> <p>Monetize their platform: As a news aggregator, Sports Central might generate revenue through advertising or by offering premium features like ad-free browsing or exclusive content.</p>

(10) Expected Output

<p>We focus on in-depth articles and multimedia content that goes beyond the surface level. Our website dissects the stories that matter, offering unique analysis and perspectives you won't get from just skimming headlines. We house a massive database of sports information, including player stats, historical data, game records, and even past articles we've published. In the future, we might leverage the database to personalize your experience. Imagine seeing articles tailored to your favorite teams or athletes, based on what you've interacted with on the site.</p>
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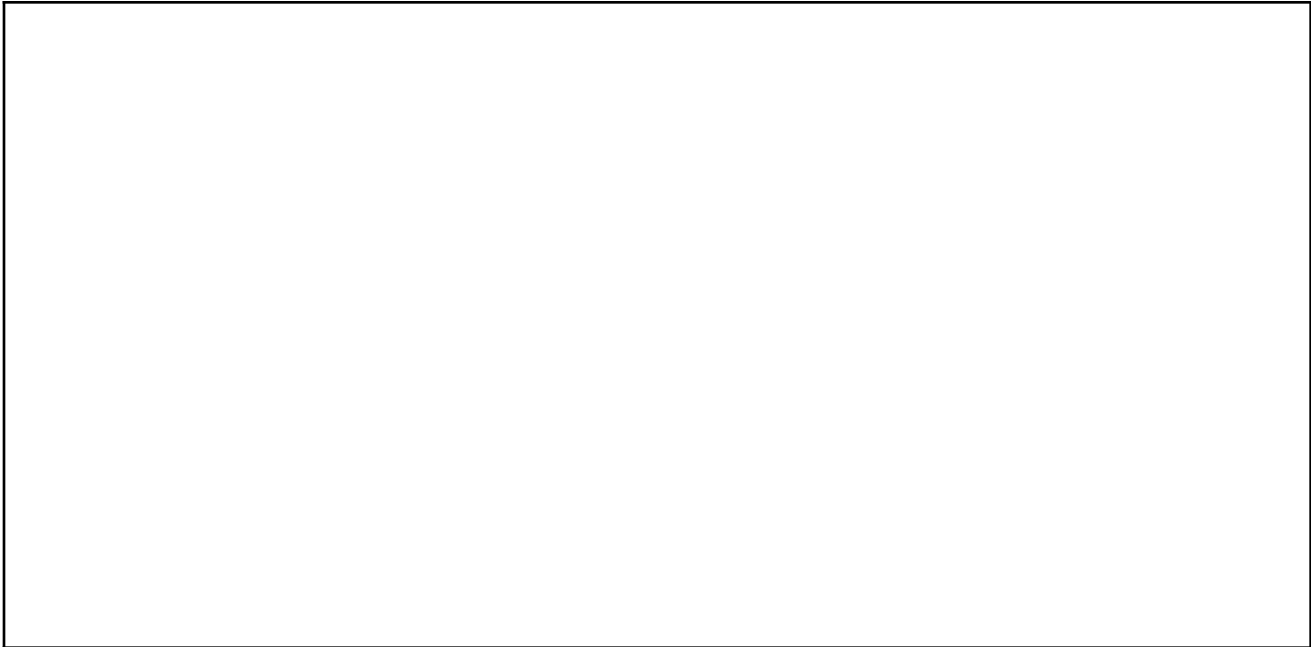
(11) Target Beneficiaries

<p>The Sports News Aggregator System is to provide support to various stakeholders in the sports industry. The primary beneficiaries of this platform are the following groups:</p> <ul style="list-style-type: none">• Sports Enthusiasts• Sports Journalists and Analysts• Advertisers and Marketers• Betting Companies and Bettors



(12) Methodology





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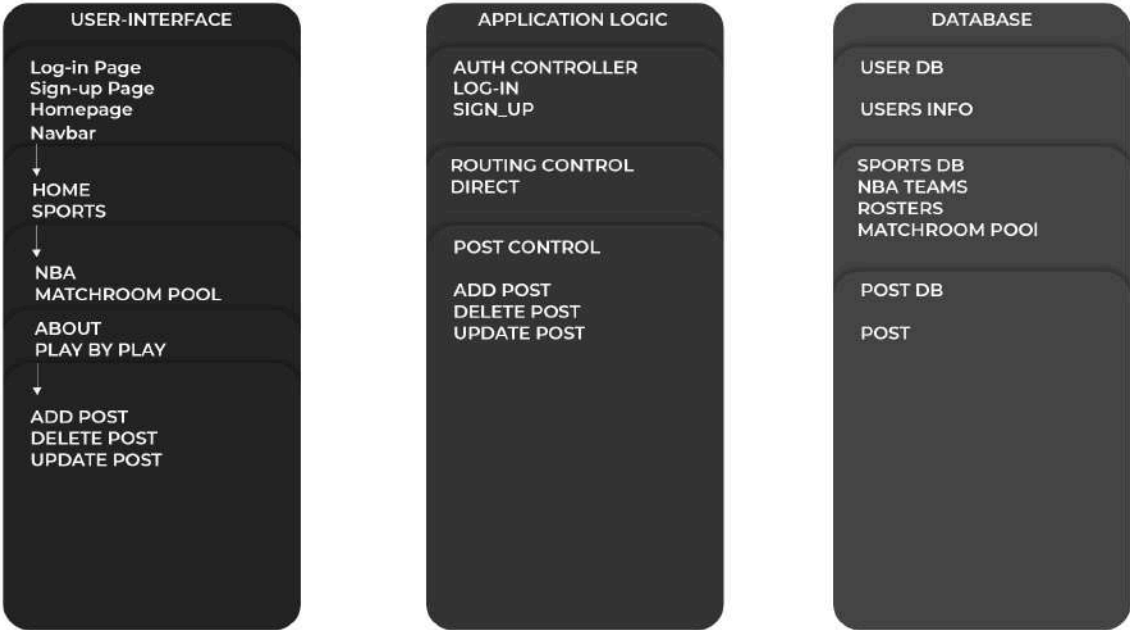
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- **SYSTEM ARCHITECTURE**

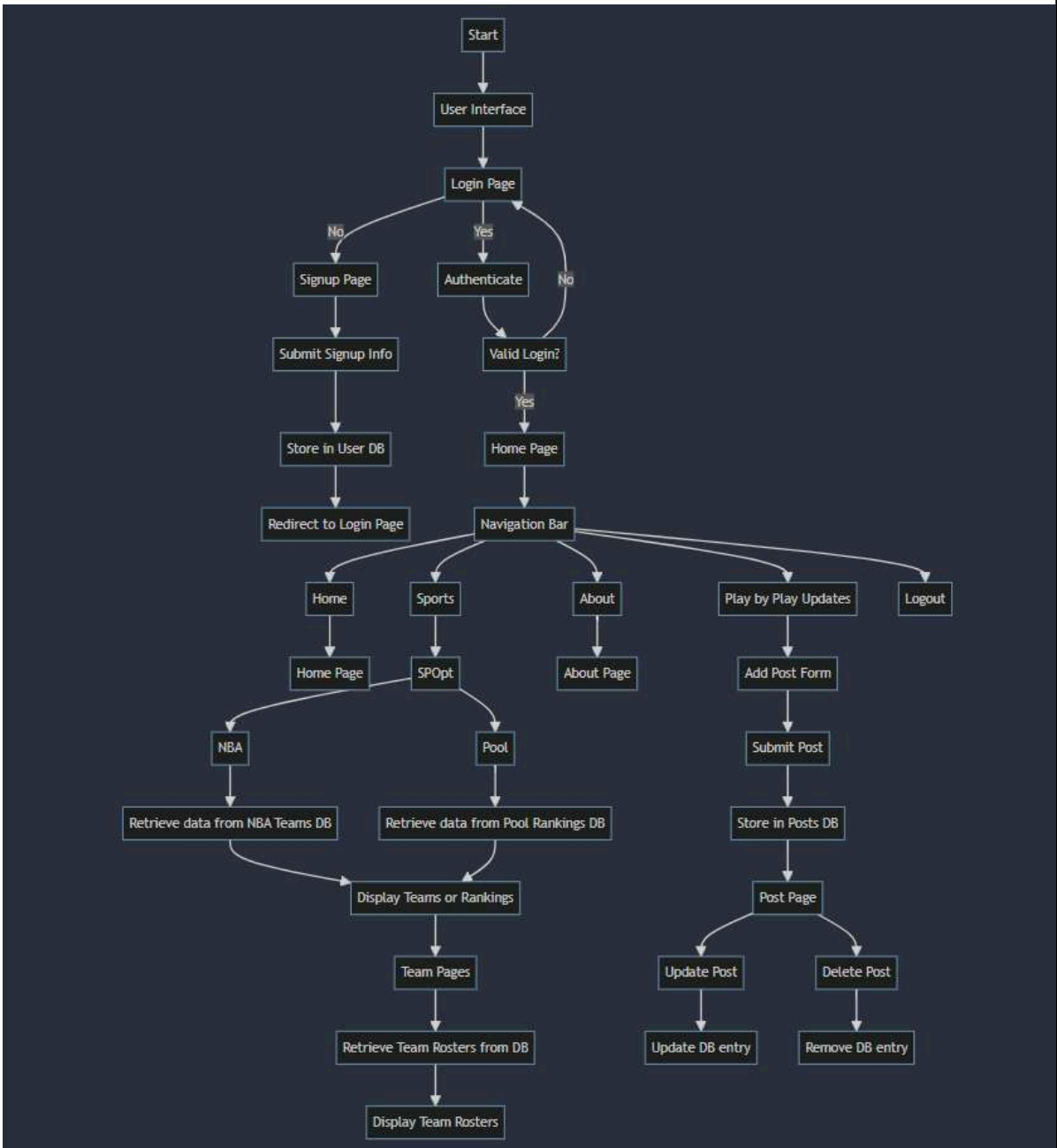


Description:

- 1. User Interface Layer:**
 - **Log-In Page:** Allows users to log in.
 - **Sign-Up Page:** Allows users to create an account.
 - **Homepage:** Displays after successful log-in, includes a navbar.
 - **Navbar:** Includes Home, Sports (with NBA and Matchroom Pool options), About, and Play-by-Play Updates (with Add Post form).
- 2. Application Logic Layer:**
 - **Authentication Controller:** Manages log-in and sign-up processes.
 - **Routing Controller:** Directs users to the appropriate pages based on their actions.
 - **Post Controller:** Manages adding, deleting, and updating posts.
- 3. Database Layer:**
 - **User Database:** Stores user information.
 - **Sports Database:** Stores NBA teams, rosters, and Matchroom Pool rankings.
 - **Posts Database:** Stores posts created by users.



- FLOW CHART



Process Flowchart

The steps a user takes in an application are represented by a flowchart. The process is portrayed step-by-step, demonstrating how one action alters the next.



Numerous possible courses of action are shown in the flowchart, depending upon user input and system conditions. For example, a user can access various areas such as Home, Sports, About, or Play by Play Updates after logging in.

Processes/Actions:

- "Login Page"
- "Authenticate"
- "Submit Signup Info"
- "Store in User DB"
- "Display Team Rosters"

Decision Points:

- "Does user have an account?"
- "Valid Login?"

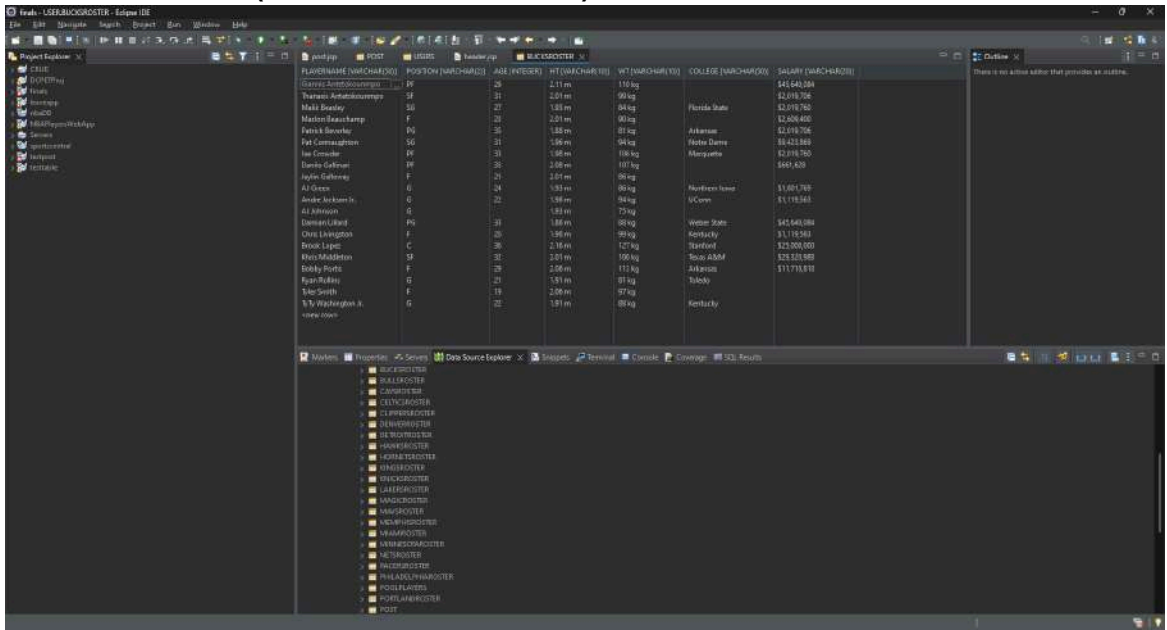
Paths:

- Yes/No branches from decision points leading to different actions or further decisions.
- Navigation paths from "Home Page" to other sections like Sports, About, and Play by Play Updates.

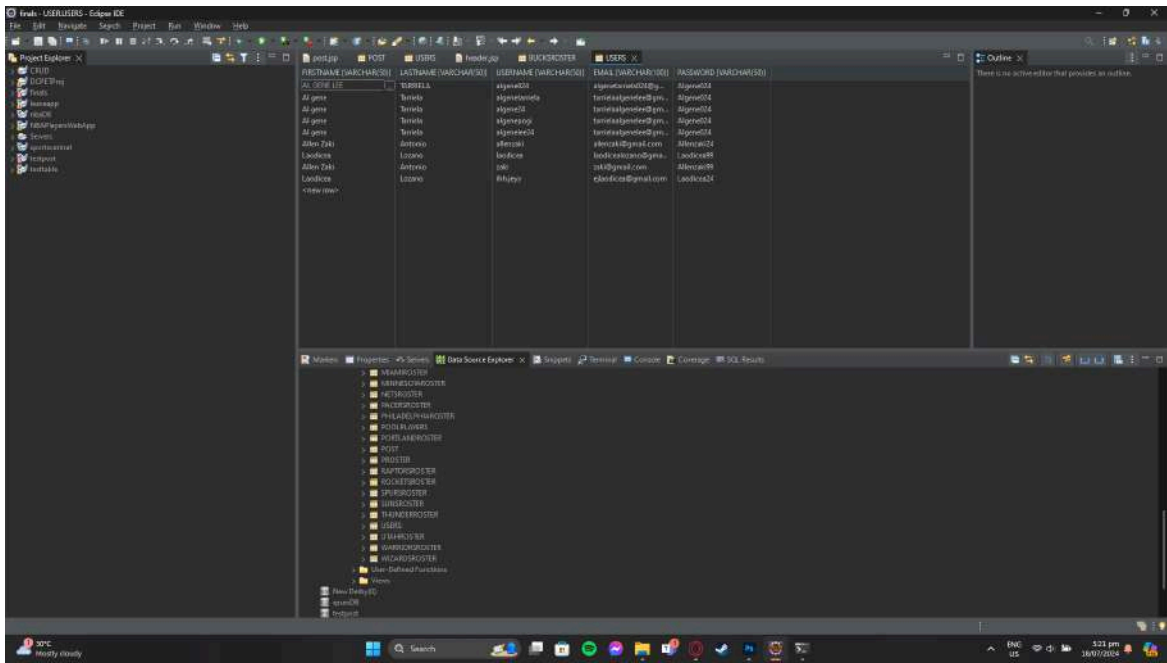




- SCREENSHOTS (DATABASE AND GUI)

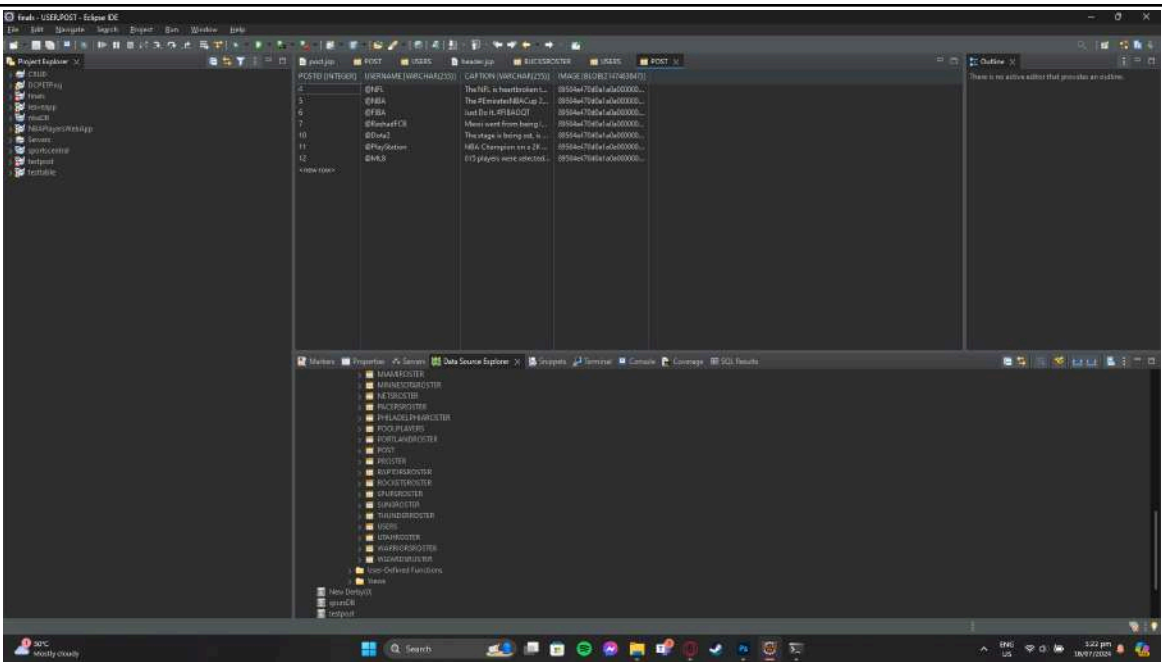


NBA TEAM DATABASE SAMPLE

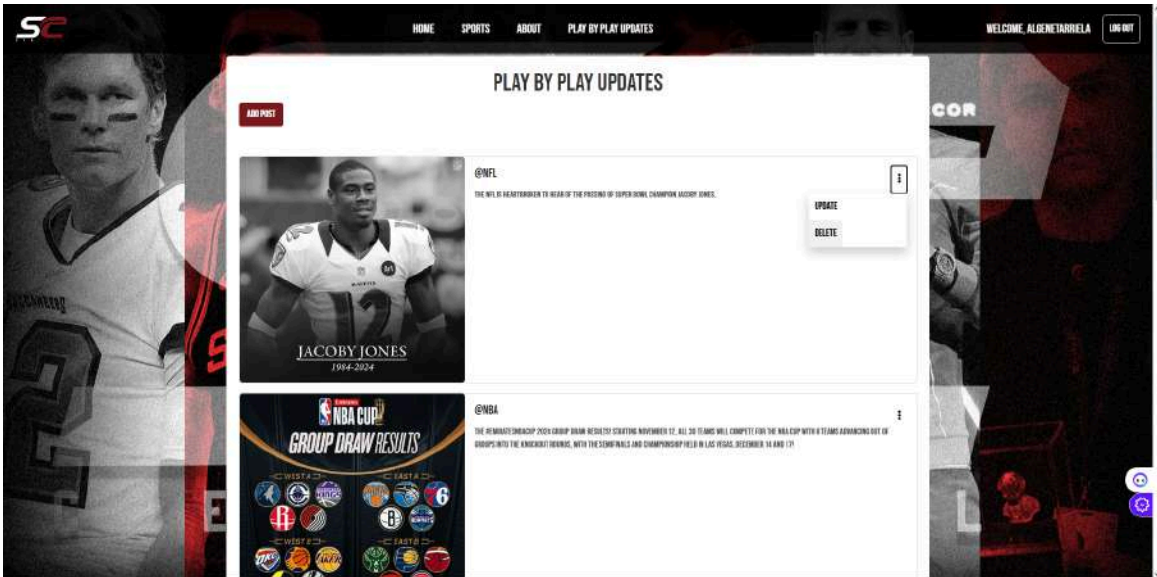


USER DATABASE



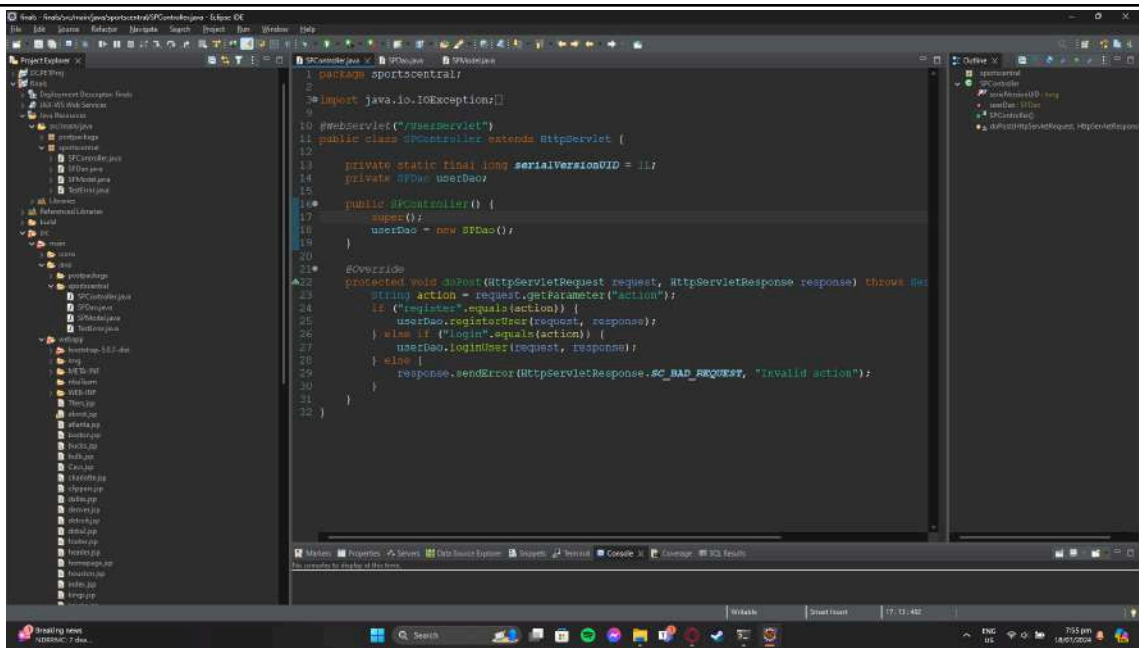


POST DATABASE



CRUD SAMPLE

- **CODE W/ COMMENT**
SPController.java



Imports: Imports necessary classes from the `jakarta.servlet` package for handling servlet functionalities.

Servlet Definition: Defines a servlet `SPController` using the `@WebServlet` annotation with the URL pattern `/UserServlet`.

Instance Variables:

- `serialVersionUID`: A unique identifier for the servlet versioning.
- `userDao`: An instance of `SPDao`, presumably handling data access operations related to users.

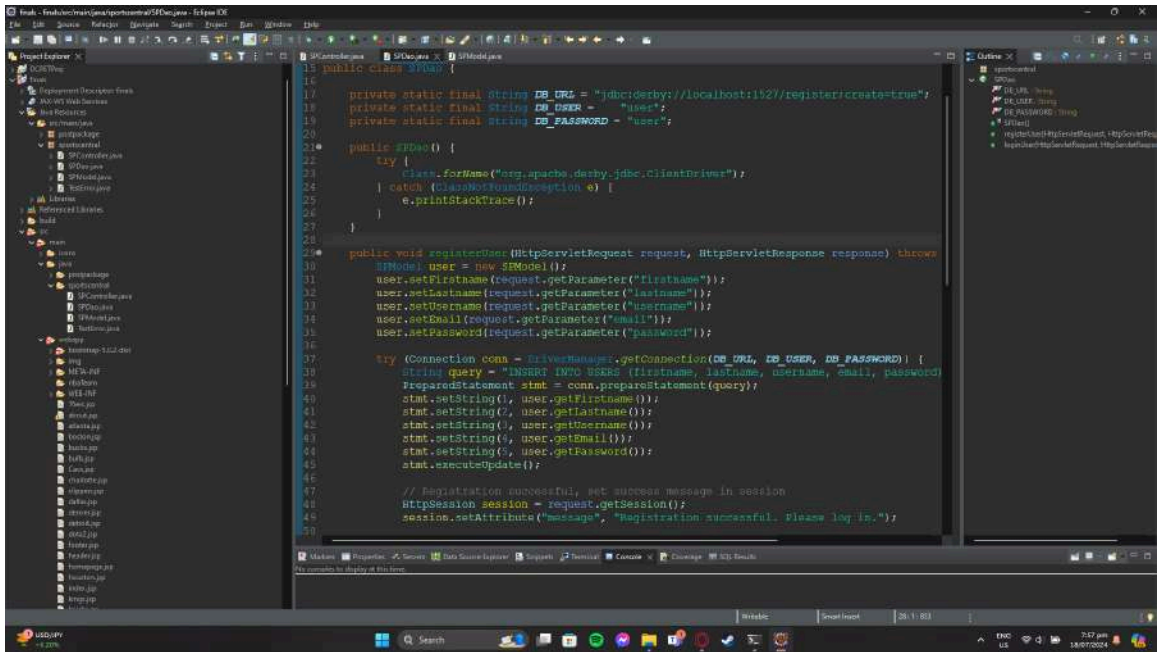
Constructor: Initializes the `userDao` object when the servlet is instantiated.

doPost Method (Overrides `HttpServlet`'s `doPost` method):

- Retrieves the `action` parameter from the HTTP request to determine the operation (register or login).
- Calls methods from `userDao` (`registerUser` or `loginUser`) based on the `action` parameter.
- If the `action` is neither "register" nor "login", it sends a "Bad Request" response with HTTP status code 400.



SPDao.java



SPDao Class Overview:

- Database Connection Setup:**
 - Defines constants for database URL, username, and password (**DB_URL**, **DB_USER**, **DB_PASSWORD**).
 - Uses **Class.forName** to load the JDBC driver (**org.apache.derby.jdbc.ClientDriver**) in the constructor.
- registerUser Method:**
 - Retrieves user registration data (**firstname**, **lastname**, **username**, **email**, **password**) from the **HttpServletRequest**.
 - Establishes a database connection using **DriverManager.getConnection**.
 - Executes an **INSERT** SQL query to insert user data into the **USERS** table.
 - Handles **SQLIntegrityConstraintViolationException** specifically for duplicate username errors by setting an error message attribute and forwarding the request to **login.jsp**.
 - Catches **SQLException** for general database errors and prints stack trace or sends an internal server error response.
- loginUser Method:**
 - Retrieves login credentials (**username** and **password**) from the **HttpServletRequest**.
 - Establishes a database connection.





- Executes a **SELECT** SQL query to verify the username and password.
- If a matching record is found in the **ResultSet**, sets the username in the session and redirects to **homepage.jsp**.
- If no matching record is found, sets an error message attribute and forwards the request to **login.jsp**.
- Catches **SQLException** for database errors during login and handles them similarly to the **registerUser** method.

```
1 package sportscentral;
2
3 public class SPModel {
4     private String firstname;
5     private String lastname;
6     private String username;
7     private String email;
8     private String password;
9
10    // Getters and Setters
11    public String getFirstname() {
12        return firstname;
13    }
14
15    public void setFirstname(String firstname) {
16        this.firstname = firstname;
17    }
18
19    public String getLastname() {
20        return lastname;
21    }
22
23    public void setLastname(String lastname) {
24        this.lastname = lastname;
25    }
26
27    public String getUsername() {
28        return username;
29    }
30
31    public void setUsername(String username) {
32        this.username = username;
33    }
34
35    public String getEmail() {
36        return email;
37    }
38}
```

SPModel Class Overview:

1. **Instance Variables:**
 - **firstname, lastname, username, email, password:** Private instance variables to store user information.
2. **Getters and Setters:**
 - Provides public accessor methods (**get** and **set** methods) for each instance variable, allowing other classes to retrieve and modify these values.

```
24 // Handle POST requests
25 @Override
26 protected void doPost(HttpServletRequest request, HttpServletResponse response)
27     throws ServletException, IOException {
28     // Retrieve form data: username and caption
29     String username = request.getParameter("username");
30     String caption = request.getParameter("caption");
31     // Retrieve the uploaded image file part
32     Part filePart = request.getPart("image");
33     // Convert the file part to an InputStream
34     InputStream fileContent = filePart.getInputStream();
35
36     // Load the Derby JDBC driver
37     try {
38         Class.forName("org.apache.derby.jdbc.ClientDriver");
39     } catch (ClassNotFoundException e) {
40         // If the driver class is not found, throw a ServletException
41         throw new ServletException("Error loading Derby JDBC driver", e);
42     }
43
44     // Establish a connection to the Derby database
45     try (Connection conn = DriverManager.getConnection("jdbc:derby://localhost:1527/register;create=true", "user", "user")) {
46         // SQL query to insert the username, caption, and image into the POST table
47         String sql = "INSERT INTO POST (username, caption, image) VALUES (?, ?, ?)";
48         try (PreparedStatement pstmt = conn.prepareStatement(sql)) {
49             // Set the values for the prepared statement
50             pstmt.setString(1, username);
51             pstmt.setString(2, caption);
52             pstmt.setBinaryStream(3, fileContent);
53
54             // Execute the prepared statement to insert the data into the database
55             pstmt.executeUpdate();
56
57             // Redirect the user to post.jsp after successful insertion
58             response.sendRedirect("post.jsp");
59         } catch (SQLException e) {
60             // If there's an error while executing the prepared statement, throw a ServletException
61             throw new ServletException("Error inserting data into database", e);
62         }
63     } catch (SQLException e) {
64         // If there's an error while connecting to the database, throw a ServletException
65         throw new ServletException("Error connecting to database", e);
66     }
67 }
68 }
69 }
```

1. Annotations and Imports:

- Uses `@MultipartConfig` to handle multipart/form-data requests, which are used for file uploads.
- Imports necessary classes from the Servlet API (`jakarta.servlet.*`).

2. Servlet Class Definition:

- Extends `HttpServlet` and defines a servlet mapped to `/CaptionPostServlet`.

3. doPost Method:

- Overrides the `doPost` method to handle HTTP POST requests.
- Retrieves form data (`username` and `caption`) and the uploaded file (`image`).
- Converts the uploaded file (`Part`) to an `InputStream`.

4. JDBC Operations:

- Loads the Derby JDBC driver (`org.apache.derby.jdbc.ClientDriver`).
- Establishes a connection to the Derby database (`jdbc:derby://localhost:1527/register;create=true`).

5. SQL Insertion:

- Defines an SQL query to insert `username`, `caption`, and `image` into a `POST` table.
- Uses a `PreparedStatement` to set parameters (`username`, `caption`, `image`) and execute the insertion.



6. Exception Handling:

- Catches `ClassNotFoundException` (for JDBC driver loading), `SQLException` (for database operations), and `IOException` (for file handling).

7. Redirection:

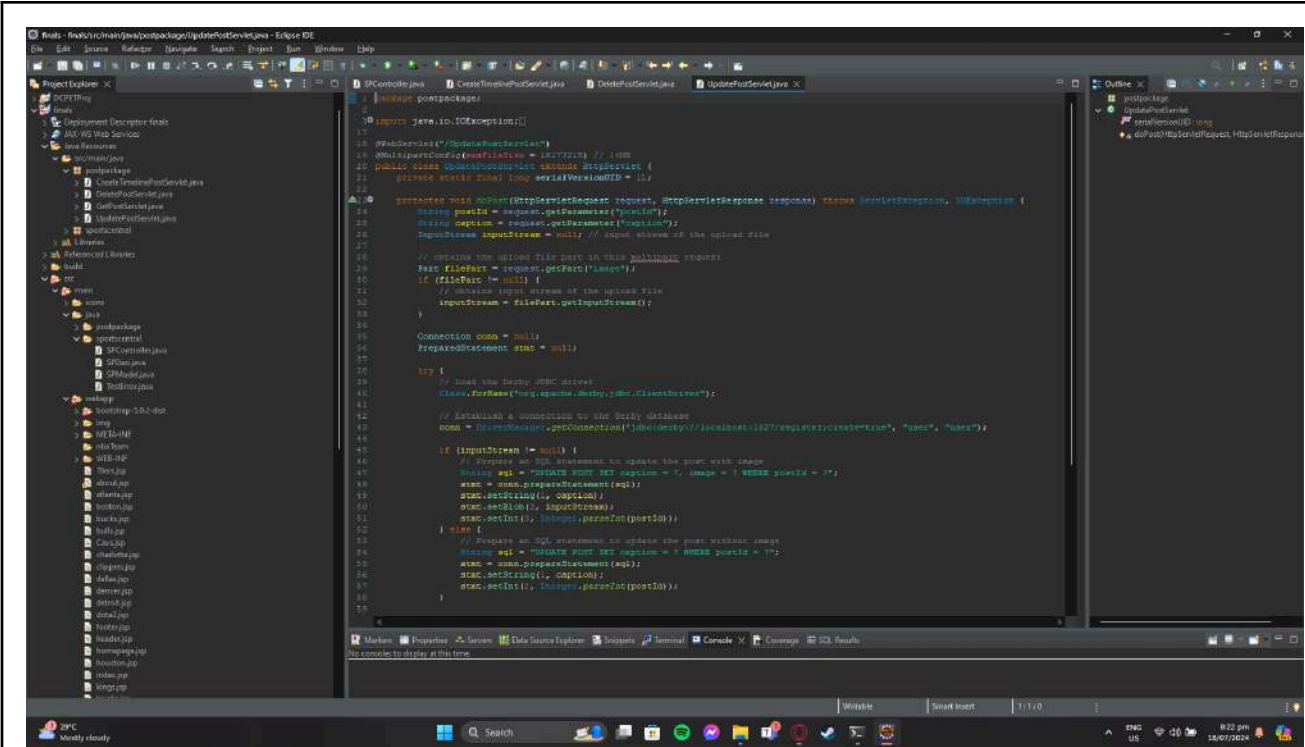
- After successful database insertion, redirects to `post.jsp`.

This servlet assumes you have:

- A Derby database (`register`) running locally.
- A `POST` table with columns `username` (VARCHAR), `caption` (VARCHAR), and `image` (BLOB or similar type).

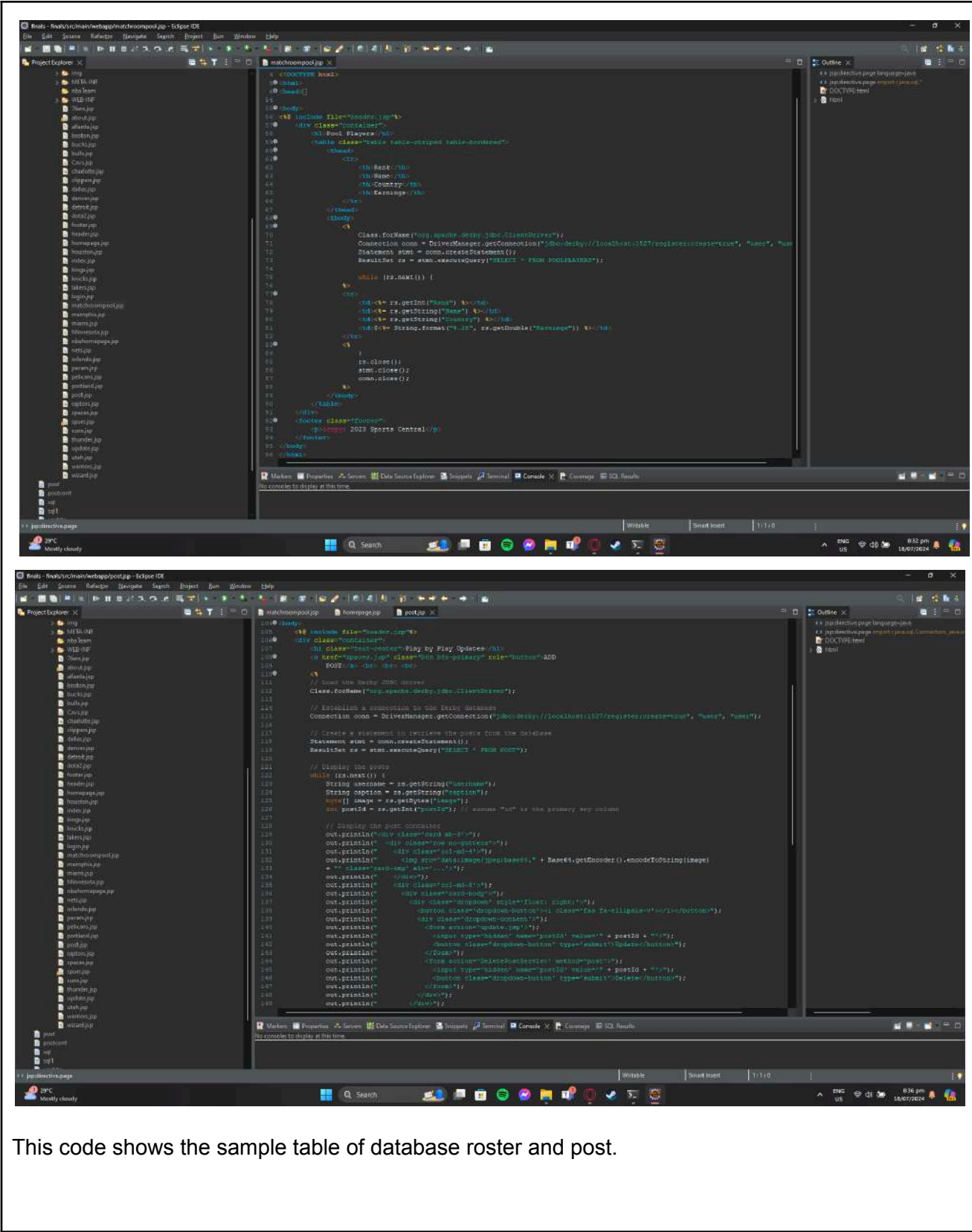
```
1 package postpackage;
2
3 import java.io.IOException;
4
5 // Annotation to map this servlet to the URL pattern "/DeletePostServlet"
6 @WebServlet("/DeletePostServlet")
7 public class DeletePostServlet extends HttpServlet {
8     private static final long serialVersionUID = 1L;
9
10    // Handle POST requests
11    @Override
12    protected void doPost(HttpServletRequest request, HttpServletResponse response)
13        throws ServletException, IOException {
14        // Retrieve the postId parameter from the request and parse it as an integer
15        int postId = Integer.parseInt(request.getParameter("postId"));
16
17        // Load the Derby JDBC driver
18        try {
19            Class.forName("org.apache.derby.jdbc.ClientDriver");
20        } catch (ClassNotFoundException e) {
21            // If the driver class is not found, throw a ServletException
22            throw new ServletException("Error loading Derby JDBC driver", e);
23        }
24
25        // Establish a connection to the Derby database
26        try (Connection conn = DriverManager.getConnection("jdbc:derby://localhost:1527/register;create=true", "user", "user")) {
27            // SQL query to delete the post with the specified postId from the POST table
28            String sql = "DELETE FROM POST WHERE postId = ?";
29            try (PreparedStatement pstmt = conn.prepareStatement(sql)) {
30                // Set the value for the prepared statement
31                pstmt.setInt(1, postId);
32
33                // Execute the prepared statement to delete the data from the database
34                pstmt.executeUpdate();
35
36                // Redirect the user to post.jsp after successful deletion
37                response.sendRedirect("post.jsp");
38            } catch (SQLException e) {
39                // If there's an error while executing the prepared statement, throw a ServletException
40                throw new ServletException("Error deleting data from database", e);
41            }
42        } catch (SQLException e) {
43            // If there's an error while connecting to the database, throw a ServletException
44            throw new ServletException("Error connecting to database", e);
45        }
46    }
47 }
```

This servlet provides basic functionality to delete posts. Depending on your application's requirements, you might want to add further validation, error handling, or security measures like authentication and authorization before allowing deletion operations.



This servlet efficiently handles updating posts in a web application, optionally including image uploads, and manages database interactions using JDBC for Derby database. It's structured to handle errors gracefully and ensures proper resource cleanup.





This code shows the sample table of database roster and post.

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- USER MANUAL

After sign-up you will be directed to the log-in page and you must input your own username and password to proceed to the homepage.

ACCOR

Login

Username
algenetariela

Password

Login

Don't have an account?

When you run the website you will be directed to the sign up page. You must sign up before you proceed to the log-in page. You need First Name, Last Name, username, email, and password. The password has validation; you must have at least one uppercase and lowercase and then one special character.

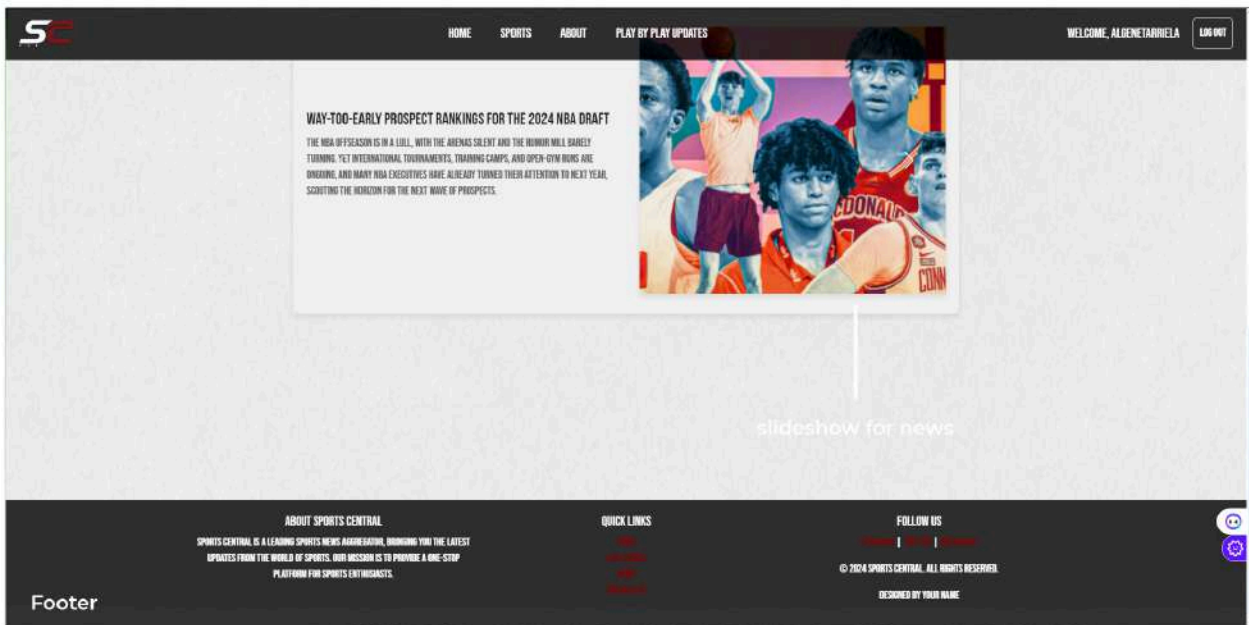
ACCOR

Sign Up

First Name
Last Name
Username
Email
Password
Confirm Password

Sign Up

Do you have an account?

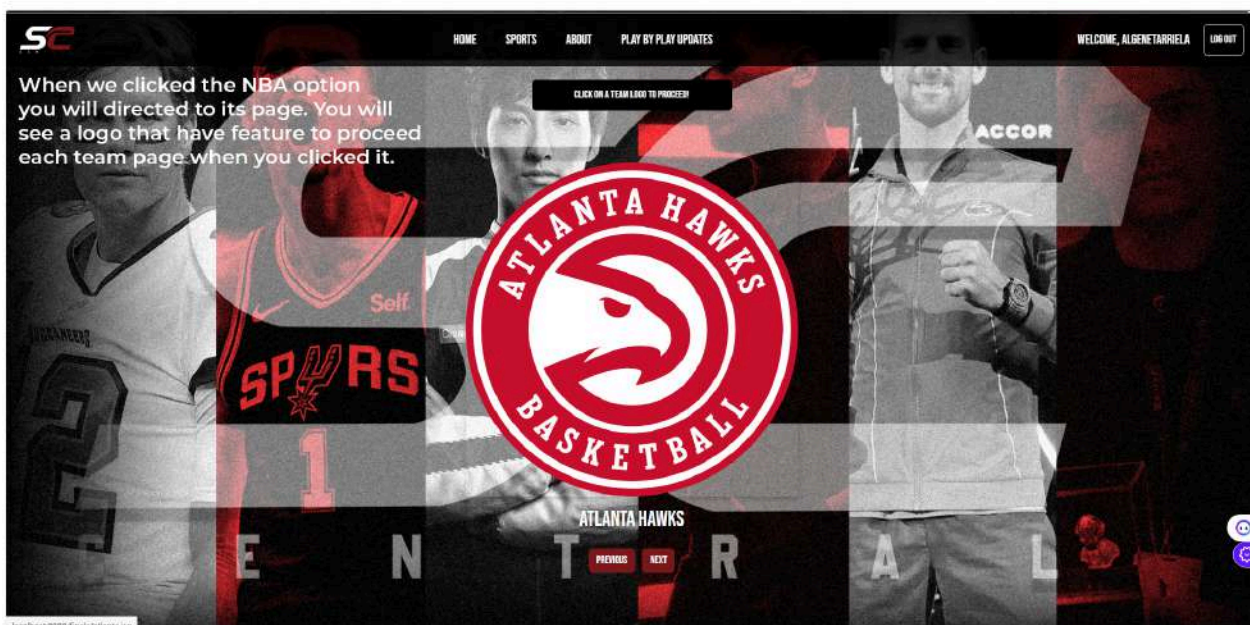


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SC

HOMESPORTSABOUTPLAY BY PLAY UPDATES

WELCOME, ALDENMARIUELA

LOG OUT

Here's a sample when you clicked the logo.

ATLANTA HAWKS

NAME	POSITION	AGE	HEIGHT	WEIGHT	COLLEGE	SALARY
TREY YOUNG	PG	25	1.85 M	74 KG	OKLAHOMA	\$40,064,220
DEJUNTE MURRAY	SG	27	1.96 M	88 KG	WASHINGTON	\$18,214,000
BOGDAN BODIRNANOVIC	SG	31	1.96 M	102 KG	—	\$18,790,000
CLINT CAPELA	C	30	2.08 M	116 KG	—	\$28,616,000
SADIQ BEY	SF	25	2.01 M	97 KG	VILLANOVA	\$4,559,983
JALEN JOHNSON	SF	22	2.03 M	99 KG	DURKE	\$2,825,360
AJ GRISTEN	FL	20	1.96 M	99 KG	DURKE	\$3,712,920
ONYEKA OKONWU	PF	23	2.08 M	108 KG	USC	\$8,109,063
TRENT FORREST	G	26	1.83 M	85 KG	FLORIDA STATE	\$552,151
BRUNO FERNANDO	PF	25	2.06 M	108 KG	MARYLAND	\$2,691,522
MUHAMMAD OJEEYE	F	21	2.08 M	95 KG	WASHINGTON STATE	\$1,119,543
DEANDRE HANTER	SF	26	2.03 M	100 KG	VIRGINIA	\$20,089,206
NORE RUPPIN	G	20	1.96 M	88 KG	MICHIGAN	\$4,094,200
VIT KREJCI	G	24	1.96 M	81 KG	—	—

SC

HOMESPORTSABOUTPLAY BY PLAY UPDATES

WELCOME, ALDENMARIUELA

LOG OUT

It have same feature with the NBA it shows current world rankings based on database.

POOL PLAYERS

RANK	NAME	COUNTRY	EARNINGS
1	FEDOR ORIST	USA	\$390411.00
2	FRANCISCO SANCHEZ BAZ	SPAIN	\$176908.00
3	EVALENT NACI	ALBANIA	\$173216.00
4	JOYSON SHAM	GREAT BRITAIN	\$140182.00
5	KO PING CHUNG	CHINESE TAIPEI	\$138278.00
6	JOSHUA FULLER	GERMANY	\$117801.00
7	DAVID ALCAIDE	SPAIN	\$112662.00
8	NIKTOR ZIELINSKI	POLAND	\$105016.00
9	ALLOYSIES TAPP	SINGAPORE	\$91050.00
10	WARRD HE	AUSTRIA	\$91687.00
11	SHANE VAN BEECHING	USA	\$91462.00
12	ALBIN BUSCHAN	AUSTRIA	\$89625.00
13	JOHANN CHUA	PHILIPPINES	\$86982.00
14	KO PIN YI	CHINESE TAIPEI	\$86725.00
15	MURITZ NEIDHARDSEN	GERMANY	\$86500.00
16	SKYLEN WOODWARD	USA	\$81900.00
17	WALY LESCHNER	AUSTRIA	\$81378.00
18	PABLO J. BARTOS	ETHIOPIA	\$54815.00


SC

HOMESPORTSABOUTPLAY BY PLAY UPDATES

WELCOME, ALGENETARRIELA

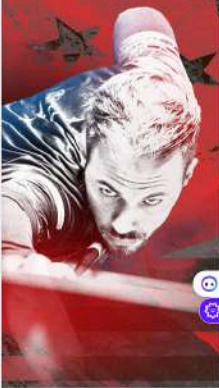
LOG OUT

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POOL PLAYERS

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3	EVALENT NACI	ALBANIA	\$173216.00
4	JOYSON SHAM	GREAT BRITAIN	\$140182.00
5	KO PING CHUNG	CHINESE TAIPEI	\$138270.00
6	JOSHUA FULLER	GERMANY	\$117001.00
7	DAVID ALCAIDE	SPAIN	\$112562.00
8	WIKTOR ZIELINSKI	POLAND	\$105016.00
9	ALLOYSIES YAPP	SINGAPORE	\$91050.00
10	WALDO HE	AUSTRIA	\$91687.00
11	SHANE VAN BOVENING	USA	\$91462.00
12	ALBIN BUSCHAN	AUSTRIA	\$89625.00
13	JORDAN CHUA	PHILIPPINES	\$88992.00
14	KO PIN YI	CHINESE TAIPEI	\$88725.00
15	MORITZ NEUBAUSEN	GERMANY	\$86500.00
16	SKYLAR WOODWARD	USA	\$81900.00
17	WALY LESCHNER	AUSTRIA	\$81370.00
18	PABLO JARQUE	ETHIOPIA	\$54815.00



SC

HOMESPORTSABOUTPLAY BY PLAY UPDATES

WELCOME, ALGENETARRIELA

LOG OUT

WHO WE ARE

SPORTS CENTRAL IS A LEADING SPORTS NEWS AGGREGATOR, BRINGING YOU THE LATEST HEADLINES, SCORES, ANALYSIS, AND COMMENTARY FROM ALL AROUND THE GLOBE. WE ARE A TEAM OF PASSIONATE SPORTS FANS AND JOURNALISTS DEDICATED TO DELIVERING HIGH-QUALITY, INFORMATIVE, AND ENGAGING SPORTS CONTENT.

OUR MISSION

OUR MISSION IS TO BE THE GO-TO SOURCE FOR ALL YOUR SPORTS NEWS NEEDS. WE STRIVE TO PROVIDE COMPREHENSIVE COVERAGE OF A WIDE RANGE OF SPORTS, FROM POPULAR LEAGUES LIKE THE NBA AND NFL TO NICHE SPORTS LIKE CURLING AND KABADDI. WE BELIEVE THAT EVERYONE DESERVES ACCESS TO QUALITY SPORTS JOURNALISM, REGARDLESS OF THEIR FAVORITE SPORT OR TEAM.

WHY CHOOSE US?

CREDIBILITY

WE SOURCE OUR NEWS FROM REPUTABLE PUBLICATIONS AND JOURNALISTS, ENSURING THE ACCURACY AND RELIABILITY OF THE INFORMATION WE PROVIDE.

VARIETY

WE COVER A WIDE RANGE OF SPORTS, SO YOU CAN STAY UP-TO-DATE ON ALL YOUR FAVORITE TEAMS AND LEAGUES.

OBJECTIVITY

WE STRIVE TO PRESENT NEWS OBJECTIVELY, WITHOUT BIAS TOWARDS ANY PARTICULAR TEAM OR ATHLETE.

About Page

ABOUT SPORTS CENTRAL

SPORTS CENTRAL IS A LEADING SPORTS NEWS AGGREGATOR, BRINGING YOU THE LATEST UPDATES FROM THE WORLD OF SPORTS. OUR MISSION IS TO PROVIDE A ONE-STOP PLATFORM FOR SPORTS ENTHUSIASTS.

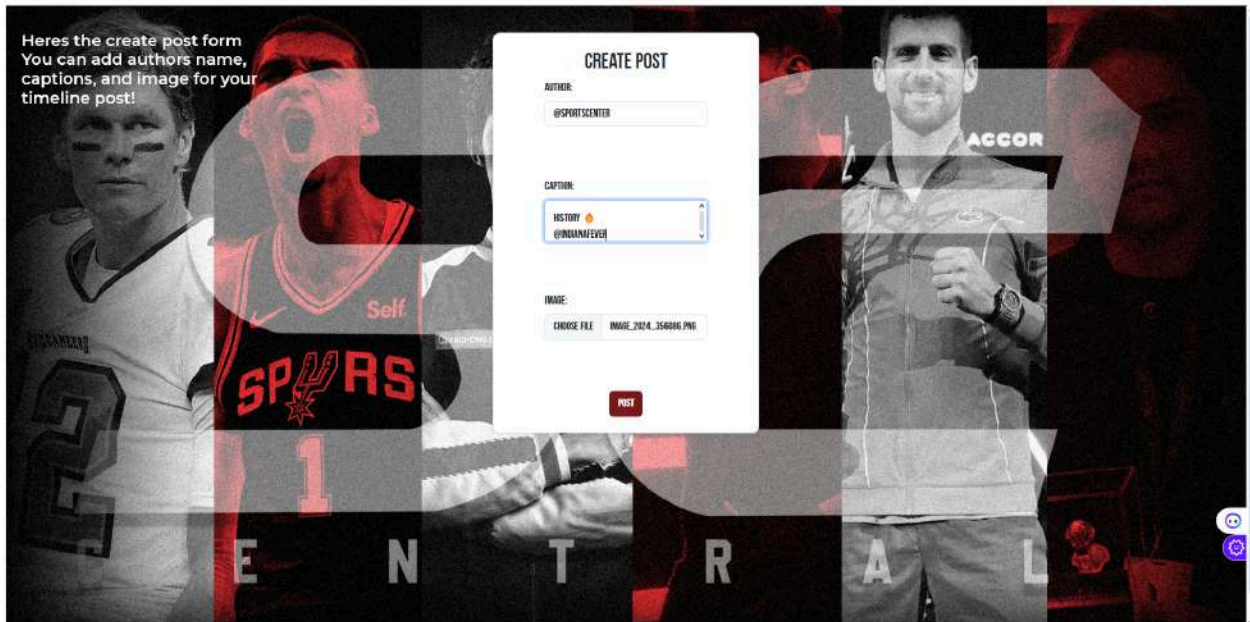
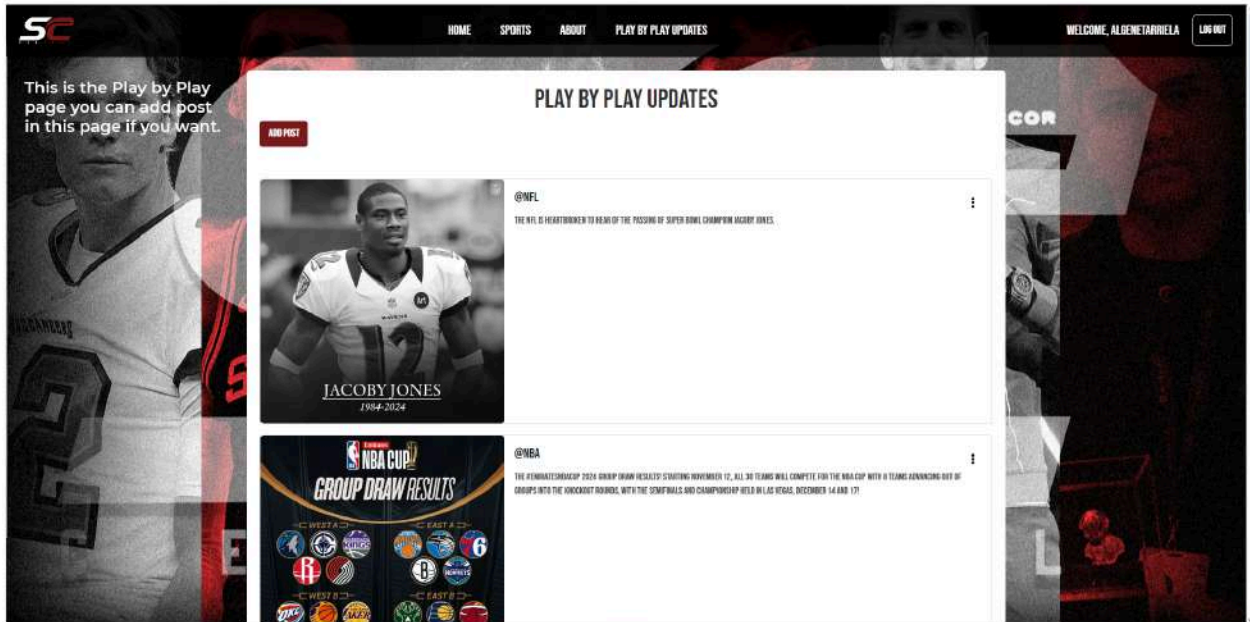
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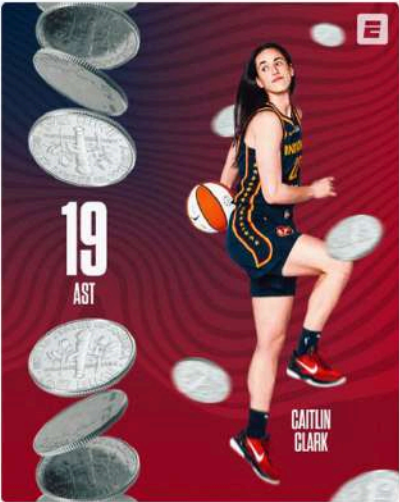
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A WNBA RECORD 19 ASSISTS FOR CAITLIN CLARK 🏀 HISTORY 🔥 @INDIANAFEVER

UPDATE

DELETE

Heres is the final output of post news feature
you can edit and delete it if you want.
