

MATCH HUB

CSIT 337 Internet Computing

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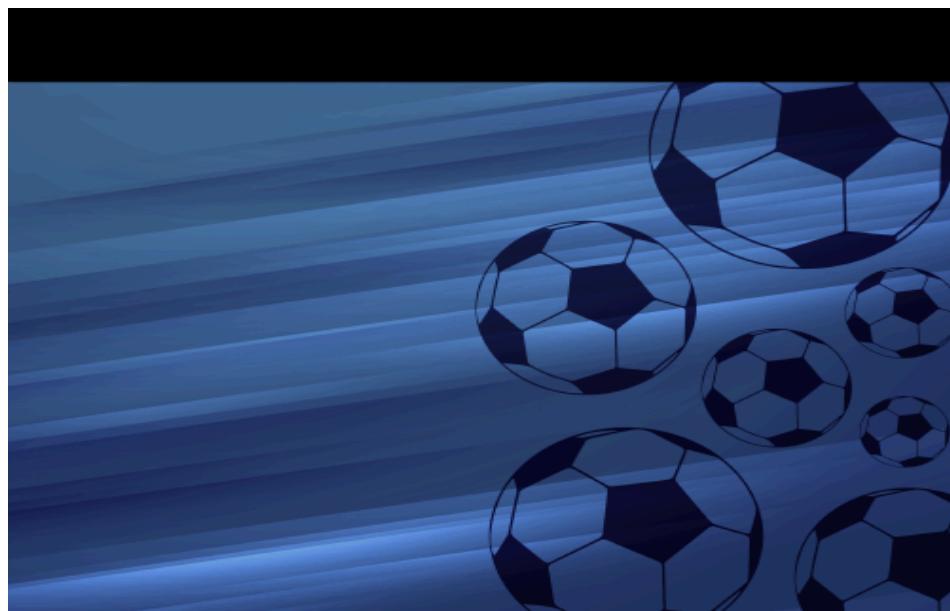
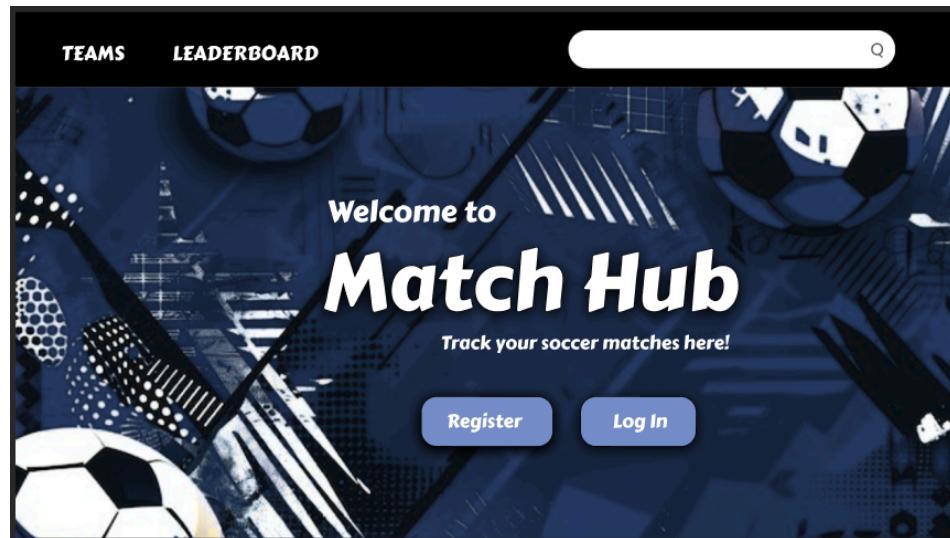
## **PROJECT SUMMARY**

MatchHub is a web-based application that is designed to help soccer fans easily organize, track, and engage with their favorite matches. The purpose of the project is to create a user-friendly space where individuals can record their own matches while also staying connected to real-world soccer data. Through MatchHub, users can input match details such as team names, match dates, and kickoff times. Once added, each match is categorized as upcoming, ongoing, or completed. This gives users a clear and organized overview of their match timeline. This allows for a system that helps users stay on top of their personal match plans without confusion or clutter.

Beyond personal tracking, MatchHub also serves as a resource for soccer enthusiasts by providing access to official statistics from the Major League Soccer (MLS). Fans can explore real-time data, standings, performance insights. This makes the platform not only a scheduling tool but a hub for soccer enthusiasts to stay informed about the sport they love. Overall, MatchHub aims to combine personal match management with professional match management with professional soccer data.

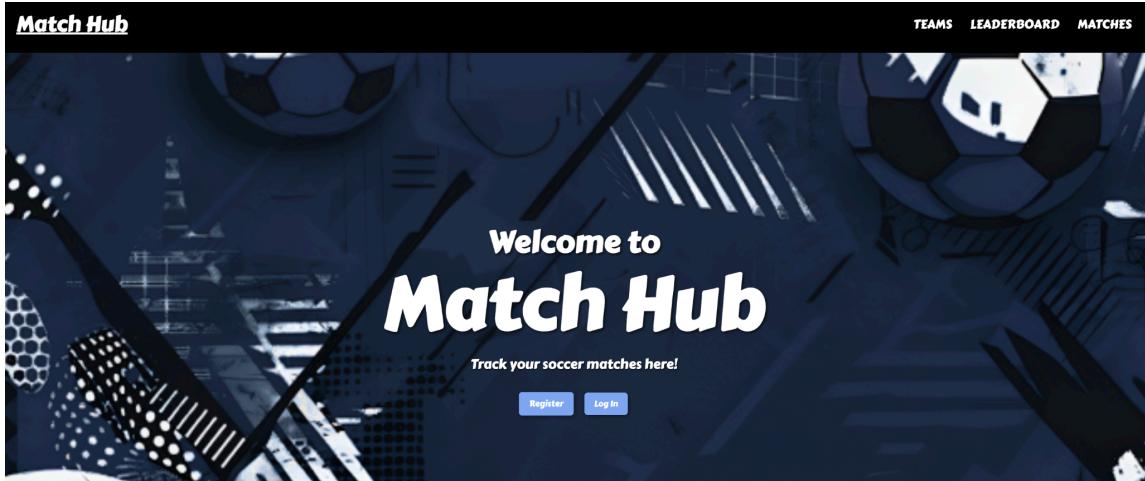
## UI/UX WIREFRAMES





## USER MANUAL

### Home Page (Start)



### Splash Screen

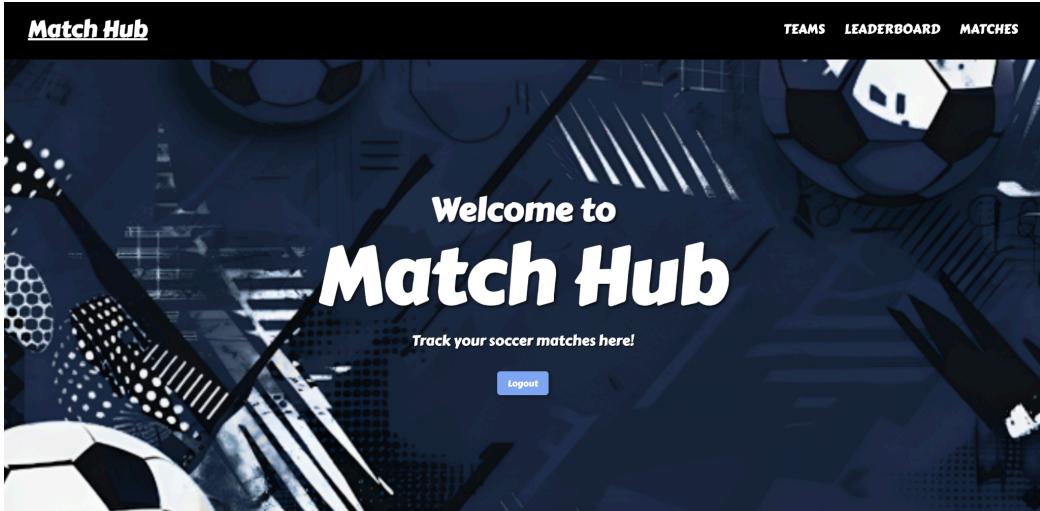


- Navigation bar at top - will not work until the user is logged in
- Register and Login:
  - Register button - will show a form to create an account (email, username, password)
    - Need to register first if the user does not have an account yet
  - Login button - shows login page (username, password)

- An alert will appear if the login information is incorrect

The image consists of three separate windows. The left window is titled 'Create Account' and contains fields for 'Email', 'Username', and 'Password'. The middle window is titled 'Login' and has a 'Username' field with a validation message 'Please fill out this field.' The right window is a modal dialog with the text 'localhost says' and 'User not found', with a blue 'OK' button.

### Home Page (After logging in)



- Navigation bar links will work now:
  - MatchHub - return to Home Page
  - Teams, Leaderboard, Matches - brings the user to the correct page
- Logout button - logs out and returns to the Home page

### Teams Page (Navigation bar)

- Navigation bar
- Displays all teams of the Major Soccer League (MSL) for the current season
  - Teams are organized based on the Eastern and Western Conferences
  - Shows team details and a link to the team's Official MSL website

**Match Hub**

TEAMS LEADERBOARD MATCHES Search...

# MLS Teams

Click on specific matches or team logos for more information

Date	Home Team	Away Team
21/02 14:30	St. Louis City	Charlotte
21/02 16:30	FC Cincinnati	Atlanta United FC
21/02 19:30	DC United	Philadelphia Union
21/02 19:30	Orlando City SC	New York Red Bulls
21/02 19:30	Vancouver Whitecaps	Real Salt Lake

21.02.2026 • 14:30  
NOT STARTED

St. Louis City vs Charlotte

CITYPARK

- Table:
  - Show upcoming matches (date, teams, score)
  - Search bar - search teams or competitions
  - Click on a specific match, then on a team's logo for more team details (statistics, members, stadium)

**Click on specific matches or team logos for more information**

USA : Major League Soccer

Regular Season -

21/02 14:30	St. Louis City	-	Charlotte
21/02 16:30	FC Cincinnati	-	Atlanta United FC
21/02 19:30	DC United	-	Philadelphia Union
21/02 19:30	Orlando City SC	-	New York Red Bulls
21/02 19:30	Vancouver Whitecaps	-	Real Salt Lake
21/02 20:30	Austin	-	Minnesota United FC
21/02 20:30	FC Dallas	-	Toronto FC
21/02 20:30	Houston Dynamo	-	Chicago Fire
21/02 20:30	Nashville SC	-	New England Revolution

**St. Louis City** ★

Founded : 2023  
Country : USA

[STATISTICS](#) [SQUAD](#) [STADIUM](#)

**ATTACKER**

S. Becher 26 years old	C. Glover 18 years old
Jeong Sang-Bin 23 years old	Jodo Klaus 28 years old
M. Joyner 19 years old	Brendan McSorley 23 years old
C. Teuchert 26 years old	

**DEFENDER**

T. Baumgartl 25 years old	F. Fall 21 years old
K. Hiebert 28 years old	H. Kessler 27 years old
A. Morales 35 years old	J. Orozco 21 years old
D. Padelford 22 years old	J. Reid 24 years old
T. Totland 26 years old	A. Watts 25 years old
M. Wentzel 23 years old	J. Yaro 31 years old
Joseph Zalinsky 22 years old	

USA : Major League Soccer

Regular Season -

St. Louis City

21.02.2026 • 14:30

NOT STARTED

Charlotte ★

CITYPARK

## Leaderboard Page (Navigation bar)

- Navigation bar
- Displays the leaderboard standings for the Eastern and Western Conferences
  - Matches Played, Wins, Draws, Loses, Goals, Points

		RESULTS						STANDINGS			< 2025 > Q		
		USA : Major League Soccer						HOME			AWAY		
		ALL						WESTERN CONFERENCE					
		MP	W	D	L	G	+/-	P			FORM		
1		34	19	6	9	64 : 41	23	63			WWLDL		
2		34	18	9	7	66 : 38	28	63			LWWDD		
3		34	17	9	8	65 : 40	25	60			DLWWW		
4		34	16	10	8	56 : 39	17	58			LWDLW		
5		34	15	10	9	58 : 48	10	55			WWWDL		
6		34	13	8	13	37 : 45	-8	47			LWLW		
7		34	11	11	12	52 : 55	-3	44			WLWDW		
8		34	11	11	12	41 : 48	-7	44			LDDDL		
9		34	12	5	17	38 : 49	-11	41			DLWWL		
10		34	11	8	15	60 : 63	-3	41			WLWLL		
11		34	11	8	15	44 : 56	-12	41			DLDDL		
12		34	9	10	15	43 : 56	-13	37			DLWL		
13		34	8	8	18	44 : 58	-14	32			DWLWW		
14		34	7	9	18	46 : 66	-20	30			WWLWL		
15		34	7	7	20	46 : 70	-24	28			DLELL		

## Matches Page (Navigation bar)

- Navigation bar
- Left Panel - MSL Matches:
  - All Tab - list all matches that users can “favorite”
  - Favorites Tab - all user-favorited matches will appear here
    - Each match also has a “View” button

**Major Soccer League (MSL) Matches**

All	Favorites
<input checked="" type="checkbox"/> New York Red Bulls vs New England Revolution	<a href="#">View</a>
<input type="checkbox"/> Chicago Fire vs CF Montreal	<a href="#">View</a>
<input type="checkbox"/> Minnesota United FC vs FC Cincinnati	<a href="#">View</a>
<input type="checkbox"/> Colorado Rapids vs Portland Timbers	<a href="#">View</a>
<input type="checkbox"/> Real Salt Lake vs Seattle Sounders	<a href="#">View</a>
<input type="checkbox"/> San Jose Earthquakes vs Atlanta United FC	<a href="#">View</a>
<input type="checkbox"/> Houston Dynamo vs Los Angeles FC	<a href="#">View</a>
<input type="checkbox"/> Sporting Kansas City vs Columbus Crew	<a href="#">View</a>
<input type="checkbox"/> FC Dallas vs Nashville SC	<a href="#">View</a>
<input type="checkbox"/> Vancouver Whitecaps vs Toronto FC	<a href="#">View</a>
<input type="checkbox"/> Los Angeles Galaxy vs Charlotte	<a href="#">View</a>
<input type="checkbox"/> Austin vs DC United	<a href="#">View</a>
<input type="checkbox"/> Philadelphia Union vs New York City FC	<a href="#">View</a>

**Major Soccer League (MSL) Matches**

All	Favorites
<input checked="" type="checkbox"/> New York Red Bulls vs New England Revolution	<a href="#">View</a>
<input checked="" type="checkbox"/> Minnesota United FC vs FC Cincinnati	<a href="#">View</a>

- Right Panel - Match Details:
  - After clicking on the “View” button - displays specific match details here
    - Teams, Date, Time, Status, and Countdown Timer



## DATABASE SCHEMA

**User Table:**

Attribute Name	Data Type	Constraint
userid	INT	Primary Key, Auto Increment
user_email	VARCHAR(100)	Not null, Unique
username	VARCHAR(50)	Not null, Unique
userpw	VARCHAR(300)	Not null

**Admin Table:**

Attribute Name	Data Type	Constraint
adminid	INT	Primary Key, Auto Increment
admin_email	VARCHAR(100)	Not null, Unique
admin_username	VARCHAR(50)	Not null, Unique
adminpw	VARCHAR(300)	Not null

**SQL Script File Content:**

```

DROP DATABASE IF EXISTS Match_Up;
CREATE DATABASE Match_Up;
USE Match_Up;
CREATE TABLE users(
    userid INT AUTO_INCREMENT PRIMARY KEY,
    user_email VARCHAR(100) NOT NULL UNIQUE,
    username VARCHAR(50) NOT NULL UNIQUE,
    userpw VARCHAR(300) NOT NULL
);
CREATE TABLE admin(
    adminid INT AUTO_INCREMENT PRIMARY KEY,
    admin_email VARCHAR(100) NOT NULL UNIQUE,
    admin_username VARCHAR(50) NOT NULL UNIQUE,

```

```
adminpw VARCHAR(300) NOT NULL
);
CREATE USER 'matchup_user'@'localhost' IDENTIFIED BY 'secure_password';
GRANT SELECT, INSERT, UPDATE, DELETE
ON Match_Up.*;
TO 'matchup_user'@'localhost';
FLUSH PRIVILEGES;
```

## TEAM MEMBER CONTRIBUTIONS

### **Elianny Rodriguez**

Worked primarily on JavaScript functionality and assisted with SQL and basic PHP setup. Contributed to match logic and data handling for the Soccer Match Tracker application.

### **Jeanne Exantus**

Focused mainly on HTML and CSS, helping design and structure the user interface. Also contributed to presentation materials and visual layout consistency across pages.

### **Shari Li**

Worked primarily on JavaScript and PHP assisting with match tracking behavior, user interactions, and frontend logic related to match status and countdown functionality. Implemented API functionality to retrieve and display data.

### **Jeremy Jimenez**

Worked on HTML and CSS styling, overall layout adjustments, and video presentation creation. Assisted with project integration, GitHub setup, and final submission coordination.

GitHub Repository:

<https://github.com/Jeremyrosa/MidtermProject>

## **CONCLUSION**

To improve MatchHub's functionality and overall security, an expanded Account Management section would be implemented. One key improvement would be the use of password hashing, ensuring that user passwords are securely stored and never saved in plain text. This would significantly reduce the risk of sensitive information being exposed in the event of a data breach. Another enhancement would include automated security email alerts. These alerts would notify users when important account-related actions occur, such as successful logins, password changes, or suspicious activity. This allows users to quickly respond if an unauthorized action is detected.

Additional improvements would focus on account change tracking, where users are notified whenever changes are made to critical account information such as email address or password. This adds transparency and helps users maintain control over their accounts. The system would also introduce login session management, allowing users to track active sessions and log out of other devices if needed. This feature improves account safety by preventing unauthorized access from previously used devices.

Finally, enforcing email and password formatting requirements would improve both usability and security. Email validation would ensure correct formatting during registration, while password requirements (such as minimum length and character variety) would help users create stronger, more secure passwords. Together, these improvements would strengthen MatchHub's account management system while providing users with a safer and more reliable experience.