



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

SCSJ3253: PROGRAMMING TECHNIQUE III

PROJECT

PLAYER SCOUTING MANAGEMENT SYSTEM

GROUP NAME	CATCHY
TEAM MEMBERS	1. MUHAMMAD ZUNNUR BIN MOHD SUHAIMI (SX180425CSJS04) 2. MUHAMMAD AKMAL BIN MOHD RAZALI (SX180407CSJS04) 3. WAN ATRISYIA BINTI A'ABIDIN (SX180875CSJS04) 4. NUR SYAHMIR RAFIQ BIN RAHIM (SX171517CSJF04)
LECTURER	MOHD SHAHIZAN BIN OTHMAN

CONTENT

NO	CONTENT	PAGE
1	Project Overview	7
	1.1 Title	7
	1.2 Objective	8
	1.3 Project Scope	9
	1.3.1 User Scope	9
	1.3.1.1 Administrator	9
	1.3.1.2 Staffs	9
	1.4 Methods	10
	1.5 Timeline	10
	1.6 Team	11
	1.7 Deliverables	12-13
	1.8 Risk	14
2	Tools and Technology Usage	15
3	System Module	16
4	Module Functionality	17
	4.0.1 Register	17
	4.0.2 Login	18
	4.0.3 Country List	19-20
	4.0.4 Player List by Selected Country	21
	4.0.5 Search Player	22-23
	4.0.6 Player Information Details	24
	4.0.7 Edit Player Information Details	25
	4.0.8 Create Player	26
	4.0.9 Create Match	27
5	Database Design	28

	5.0.1 Entity Relationship Diagram (ERD)	28
	5.0.2 Use Case Diagram	29
	5.0.3 Activity Diagram	30
	5.0.4 Authentication	31
6	References	32

LIST OF FIGURES

FIGURE	TITLE	PAGE
1.5	Project Timeline	10
4.0.1	Register Page	17
4.0.2	Login Page	18
4.0.3.1	Country List Page	20
4.0.3.2	Country List Page	20
4.0.4	Player List by Selected Country Page	21
4.0.5.1	Search Player Page	23
4.0.5.2	Search Player Page	23
4.0.6	Player Information Details Page	24
4.0.7	Edit Player Information Details Page	25
4.0.8	Create Player Page	26
4.0.9	Create Match Page	27

LIST OF TABLES

TABLE	TITLE	PAGE
1.6	Assigned task to each member	11
1.7	Project Deliverables	12-13
2.0	Tools and Technology Usage	15

LIST OF DIAGRAM

DIAGRAM	TITLE	PAGE
5.0.1	Entity Relationship Diagram	28
5.0.2	Use Case Diagram	29
5.0.3	Activity Diagram	30
5.0.4	Authentication Diagram	31

1.0 PROJECT OVERVIEW

Every students has been assigned to program a project. Theme that were given by lecturer is FIFA World Cup. Hence, it has been decided among groupmates to create a project called Player Scouting System.

FIFA World Cup is the short form of Federation Internationale de Football Association or Soccer's World Governing Body. It is an international association football boasts 209 member's, rivalling that of the United Nations, and is arguably the most prestigious sports organization in the world. The tournament will be held every four years since the inaugural tournament in 1930.

1.1 TITLE

Player Scouting System aims to manage player's statistics along with information in each country that were participated in FIFA World Cup. The information that will be provide by the system is player's information, tournament matches and information such as goal's, assist and card's throughout FIFA World Cup games. It can only be access by management staffs and administrator itself.

This system contains homepage module along with login button's for administrator and staffs. Administrator and staffs have their own access level. For administrator, they will be able to create and edit player information's while staffs should only be able to view all the player's information.

1.2 OBJECTIVE

Each project must have their own objective in order to create a project. Player Scouting System as well have their own objective.

Our main focus for this project is to allow management to manage FIFA World Cup much more systematic. They can create and update ongoing information in this system. This can minimise their time management to update all the information. Other than that, they can begin to start paperless campaign whereby they can use this system without having any hassle of managing FIFA World Cup activity.

Last but not least, they can update on the spot if there is any impromptu update such as player admitted to hospital and cannot be playing the whole season due to injury. This can be the advantage for management team since they are going to be on track in any situation.

1.3 PROJECT SCOPE

Player Scouting Management System have two different kind of scope which is Administrator and Staffs. Their access level is different whereby staffs have read-only access while administrator should have read and write access.

1.3.1 USER SCOPE

Below are the users scope for Player Scouting Management System.

1.3.1.1 ADMINISTRATOR

Administrator should be able to login. Once admin is logged in, they should be able to see multiple kind of country or teams that participate for FIFA World Cup. Admin should be able to view player for each teams. Admin have write access whereby they can create player or team for this tournament. Admin should be able to view matches along with their score.

1.3.1.2 STAFFS

Staffs should be able to login. Once staffs is logged in, they should be able to see multiple kind of country or teams that participate for FIFA World Cup. Staffs should only have read-only access hence they should only be able to view teams, players and matches.

1.4 METHODS

Developers of Player Scouting Management System has decided to use Agile Methodology which they believe that it could speed-up the process of developing the system. Lead developer has distribute each module for each developer.

At the end of the day, each module can be finish up on time without exceeding given timeline by project manager.

1.5 TIMELINE

For this project, we have set a timeline where we should be finishing all modules including testing and document creation. Hence, attached timeline of this project for reference using gantt chart table.

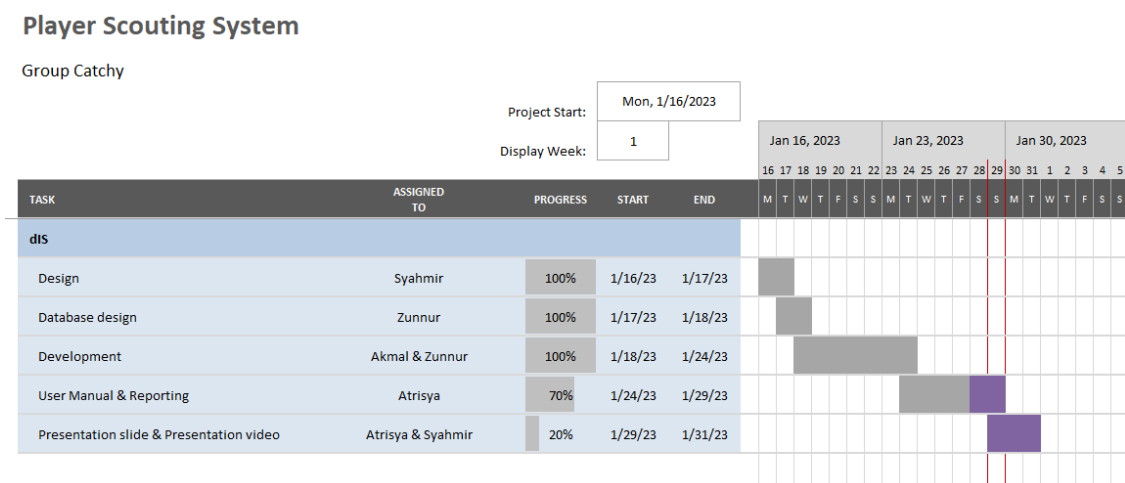


Figure 1.5 Project Timeline

1.6 TEAM

Each member in this project has been given task to develop, testing including document creation in order to finish up this project within the timeline. Table below define each task that has been assigned to members.

Name	Task
Zunnur	Develop module, Testing
Akmal	Develop module, Testing
Atrisyia	Testing, Document Creation
Syahmir	Testing, Document Creation

Table 1.6 display assigned task to each member

1.7 DELIVERABLES

As we known, deliverables need to be provide upon the completion of the project. Upon of that, we managed to meet within the timeline following to all modules that has been developed along with its documents. Hence, below attached project deliverables table for reference.

No	Deliverable Name	Description	Owner	Status
1	Prepare Project Plan	Define objective and timeline of the project. Assigning module task to each member	Zunnur	Completed
2	Design Wireframes	Design layout of Player Scouting Management System	Syahmir	Completed
3	Develop Register Module	Develop register page front end and its functionality	Akmal	Completed
4	Develop Login Module	Develop login page front end and its functionality	Syahmir	Completed
5	Develop Country List Module	Develop country list page front end and its functionality	Zunnur	Completed
6	Develop Player List Module	Develop player list page front end and its functionality	Zunnur	Completed
7	Develop Search Player Module	Develop search player page front end and its functionality	Zunnur	Completed

8	Develop Player Information Details Module	Develop player information details front end page and its functionality	Akmal	Completed
9	Develop Edit Player Information Details Module	Develop edit player information details front end page and its functionality	Akmal	Completed
10	Develop Create Player Module	Develop create player front end page and its functionality	Akmal	Completed
11	Develop Create Match Module	Develop create match front end page and its functionality	Zunnur	Completed
12	Unit Testing	Conduct unit testing after all module has been developed	Akmal, Zunnur, Atrisyia, Syahmir	Completed
13	Preparation Project Report and Slide	Preparation of project documents	Atrisyia, Syahmir	Completed

Table 1.7 Project Deliverables

1.8 RISK

Risk is any unexpected event that could affect your project. It would not only be apply to project but to people, processes, technology and resources throughout the project.

As for this project, we intended to do a management system to reduce the cost, time and technology. Hence, the risk for this system is low. However, the risk of this project along the way is wrong inserted data into the system. This could be apply since this system need to be insert all the details one by one. We are yet to create a system with bulk upload functionality which we believe it could be implement in the next version.

As for now, we created a system where they can fill all the information and refer to it instead of using manual ways.

2.0 TOOLS AND TECHNOLOGY USAGE

Tools and technology are important in developing a system hence for tools that developers has decided to use is as below:-

Tools and Technology Usage
<ul style="list-style-type: none">• GitHub• Visual Studio 2022<ul style="list-style-type: none">• Nuget• MySQL• Dbdiagram.io

Table 2.0 display Tools and Technology Usage

3.0 SYSTEM MODULE

Player Scouting Management System divided into six section which is:-

- Login Page
- Register Page
- Country List Page
- Player List Page
- Create Player Page
- Create Match Page

Registered members have their own ability to view the system whether as administrator or normal members. For example, administrator should be able to edit the module otherwise they will become a normal member since they only be able to view the module.

4.0 MODULE FUNCTIONALITY

This section will describe each module functionality in terms of usability. It contains several kind of module which will define how to use this system wisely.

4.0.1 REGISTER

Register page is for FIFA World Cup member who yet to have an account. In order to register, user must not have any binding account. To register, user can simply fill in their email, password and confirm password. Once done, user shall be able to click register and they should be able to view the system.

PLASS

Register Log in

Search Country
Search Player

Register.
Create a new account

Email

Password

Confirm password

Register

© 2023 - Player Scouting System (PLASS)

Figure 4.0.1 Register Page

4.0.2 LOGIN

Login page is for FIFA World Cup member who have already registered to this platform. In order to login, user must using information that they use throughout registration process. User can simply fill in their email and password. Once done, user shall be able to click login and should be able to view the system.

User should also be able to use Remember Me checkbox for future login to avoid any wrong login in case they forgot their credentials.

PLASS

Register Log in

Search Country
Search Player

Log in.

Use a local account to log in.

Email

Password

☐ Remember me?

Log in

[Register as a new user](#)

Use another service to log in.

There are no external authentication services configured. See [this article](#) for details on setting up this ASP.NET application to support logging in via external services.

© 2023 - Player Scouting System (PLASS)

Figure 4.0.2 Login Page

4.0.3 COUNTRY LIST

This page is for user to view all country that participate for this tournament. It can be seen that the list display in alphabetical order. User should also be able to search by country to see particular country that they demand to see.

In this page, the list is displayed name of the country, country flag and a checkbox which will be define whether the country qualify for the tournament or vice versa.

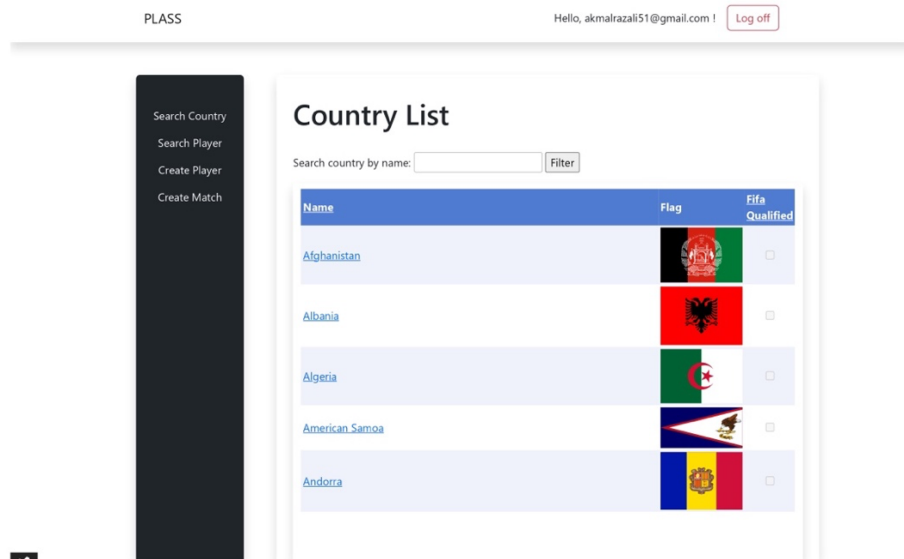


Figure 4.0.3.1 Country List Page

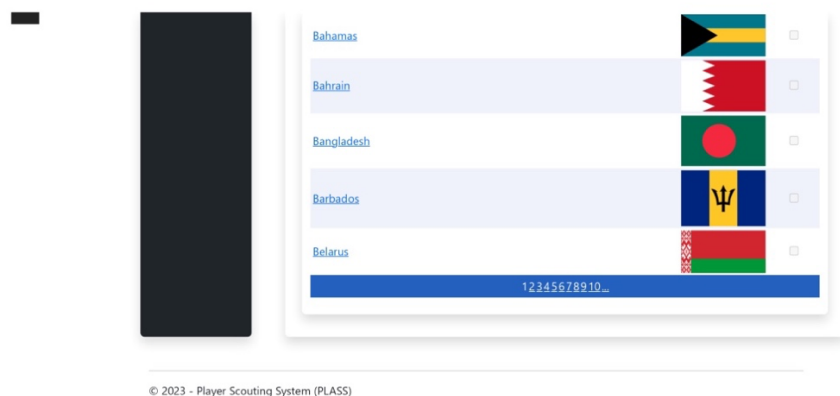


Figure 4.0.3.2 Country List Page

4.0.4 PLAYER LIST BY SELECTED COUNTRY

This page contains players of the country that user selected. It display players name, date of birth, height, weight, dominant foot and their estimated value. User should also be able to create player in case there is any new member of the team.

PLASS

Hello, akmalrazali51@gmail.com ! [Log off](#)

Search Country
Search Player
Create Player
Create Match

Player Listing [Create](#)

Name	Birthday	Height (cm)	Weight (kg)	Dominant Foot	Estimated Value (usd)
Wynne Walker	03/07/2016	131.00	109.00	left	211,468,303
Messi	24/06/1987	169.00	67.00	right	60,490,000
Messi	24/06/1987	169.00	67.00	right	60,490,000

© 2023 - Player Scouting System (PLASS)

Figure 4.0.4 Player List by Selected Country Page

4.0.5 SEARCH PLAYER

This page contains list of players that participate this tournament. It can be search by country which can be simply insert into the textbox and click filter button.

The data that will be display in this page is such as name of the player, country, date of birth, height, weight, dominant foot and their estimated value.

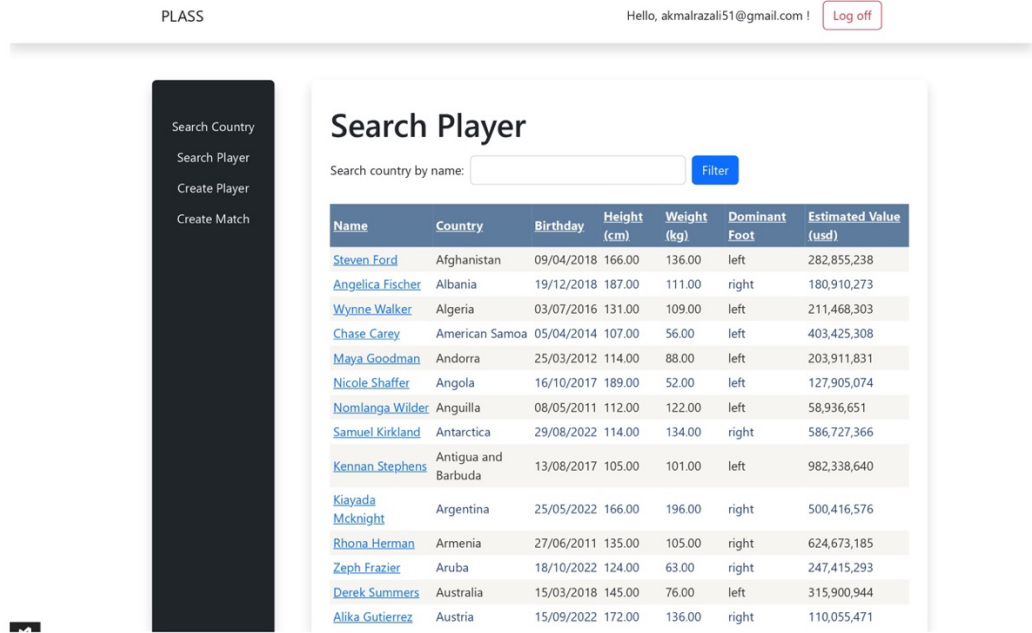
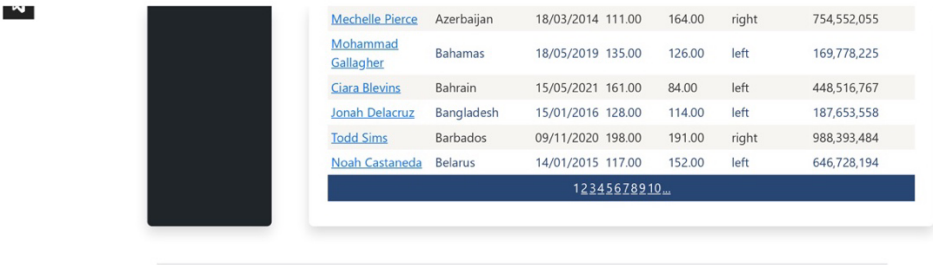


Figure 4.0.5.1 Search Player Page



© 2023 - Player Scouting System (PLASS)

Figure 4.0.5.2 Search Player Page

4.0.6 PLAYER INFORMATION DETAILS

This page contains particular player information details based on participant that user click. In this page, user shall be able to view into two separate section which is player details and match history.

For player detail section, user should be able to view their name, date of birth, height, weight, dominant foot, estimated value and country name. At the end of the section, user shall see edit button where they can edit player information.

As for match history section, user should be able to view date, goals, assists, yellow card, red card, jersey number and their position.

PLASS

Hello, akmalrazali51@gmail.com ! [Log off](#)

Search Country
Search Player
Create Player
Create Match

Player Detail

Name: Steven Ford
Birthday: 09/04/2018
Height (cm): 166.00
Weight (kg): 136.00
Dominant Foot: left
Estimated Value: 282,855,238
Country Name: Chad

[Edit](#)

Match History

Title	Date	Goals	Assists	Yellow Card	Red Card	Jersey Number	Posit
	01/01/1900	0	0	0	0		goalkeeper
1	26/01/2023	4	0	0	0		goalkeeper

© 2023 - Player Scouting System (PLASS)

Figure 4.0.6 Player Information Details Page

4.0.7 EDIT PLAYER INFORMATION DETAILS

This page display edit player information details page after user click edit button in player information details page. In this page, user shall be able to view into two separate section which is player details and match history.

For player detail section, user should be able to view their name, date of birth, height, weight, dominant foot, estimated value and country name. At the end of the section, user should be able to see update button where they can update what has been edited and cancel button where they can cancel all edited details that has been filled.

As for match history section, user should only be able to view the details.

PLASS

Hello, akmalrazali51@gmail.com ! [Log off](#)

Search Country
Search Player
Create Player
Create Match

Player Detail

Name:

Birthday:

Height (cm):

Weight (kg):

Dominant Foot:

Estimated Value:

Country Name:

[Update](#) [Cancel](#)

Match History

© 2023 - Player Scouting System (PLASS)

Figure 4.0.7 Edit Player Information Details Page

4.0.8 CREATE PLAYER

This page displays the create player page after a user clicks the create button in the player list page. In order to create a player, a user can simply fill in particular player name, date of birth, height, weight, country, dominant foot, and their estimated value. Once done, a user can click the submit button and shall be seen in the player list page afterwards.

PLASS

Hello, akmalrazali51@gmail.com ! [Log off](#)

Search Country
Search Player
Create Player
Create Match

Create Player

Name

Date of Birth

Height (cm)

Weight (kg)

Country

Dominant Foot

Estimated Value

[Submit](#)

© 2023 - Player Scouting System (PLASS)

Figure 4.0.8 Create Player Page

4.0.9 CREATE MATCH

This page displays the create match page when a user clicks the Create Match button at the sidebar. In order to create a match, a user can simply insert player name, title, date, goal, assist, yellow card, red card, position and jersey number. In radio button form, a user can select whether the player is captain or vice versa. As for team, in dropdown form, a user can select a country that they are playing for. Once done, a user can click submit in order to commit the changes.

PLASS

Hello, akmalrazali51@gmail.com ! [Log off](#)

Search Country
Search Player
Create Player
Create Match

Create Match

Player
Steven Ford

Title
Date
dd/mm/yyyy

Goal Assist Yellow Card Red Card
0 0 0 0

Position Jersey Number Is captain?
goalkeeper 1 ☐ Yes ☐ No

Team
Tincidunt Congue Incorporated

Submit

© 2023 - Player Scouting System (PLASS)

Figure 4.0.9 Create Match Page

5 DATABASE DESIGN

Database Design is the organisation of data according to a database model. The designer determines kind of data that need to be stored and how the data elements tie with one another. Attached database design figure for Player Scouting Management System.

5.0 ENTITY RELATIONSHIP DIAGRAM (ERD)

Entity Relationship Diagram or ERD for short form is a graphical representation that depicts relationships among people, objects, places, concepts or events within an information technology system. Attached Entity Relationship Diagram figure for Player Scouting Management System for the whole system including administrator and staffs.

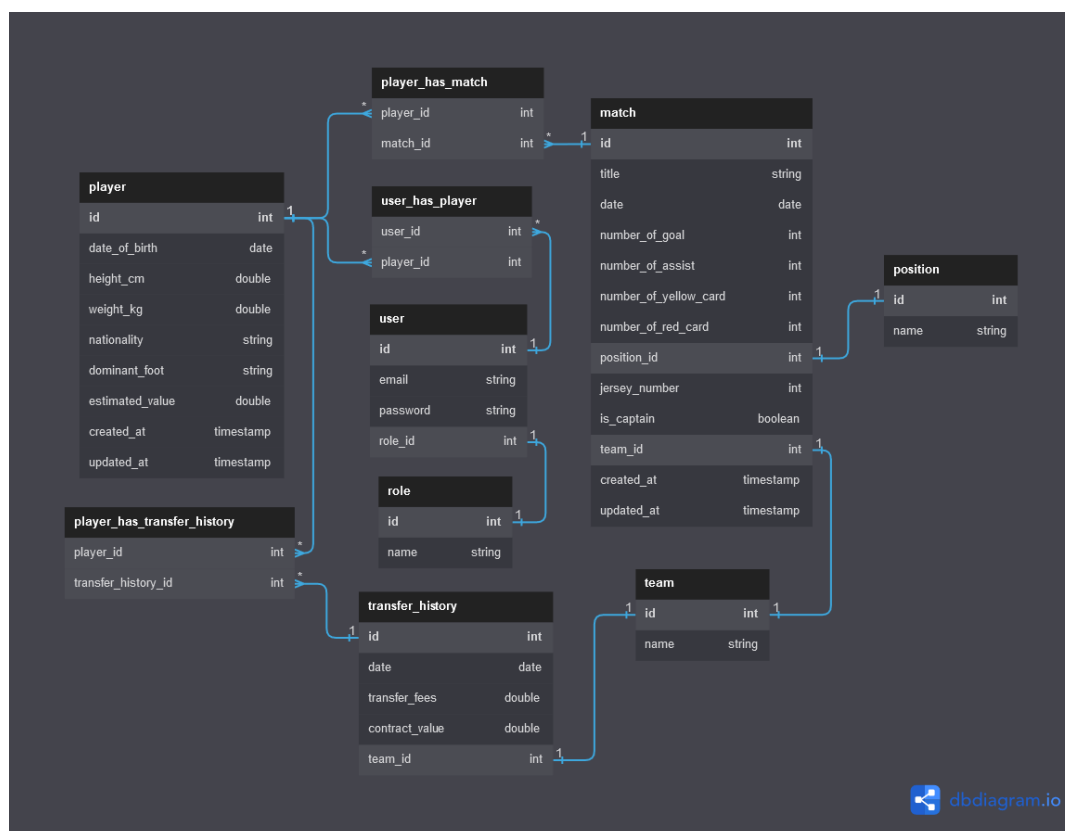


Figure 5.1 Player Scouting Management System ERD

5.1 USE CASE DIAGRAM

User Case Diagram describe the high-level functions and scope of a system. It also identify the interactions between the system and its actors. This can be define as in how the system does and how the actors use it. Attached Use Case Diagram figure for Player Scouting Management System for the whole system including administrator and staffs.

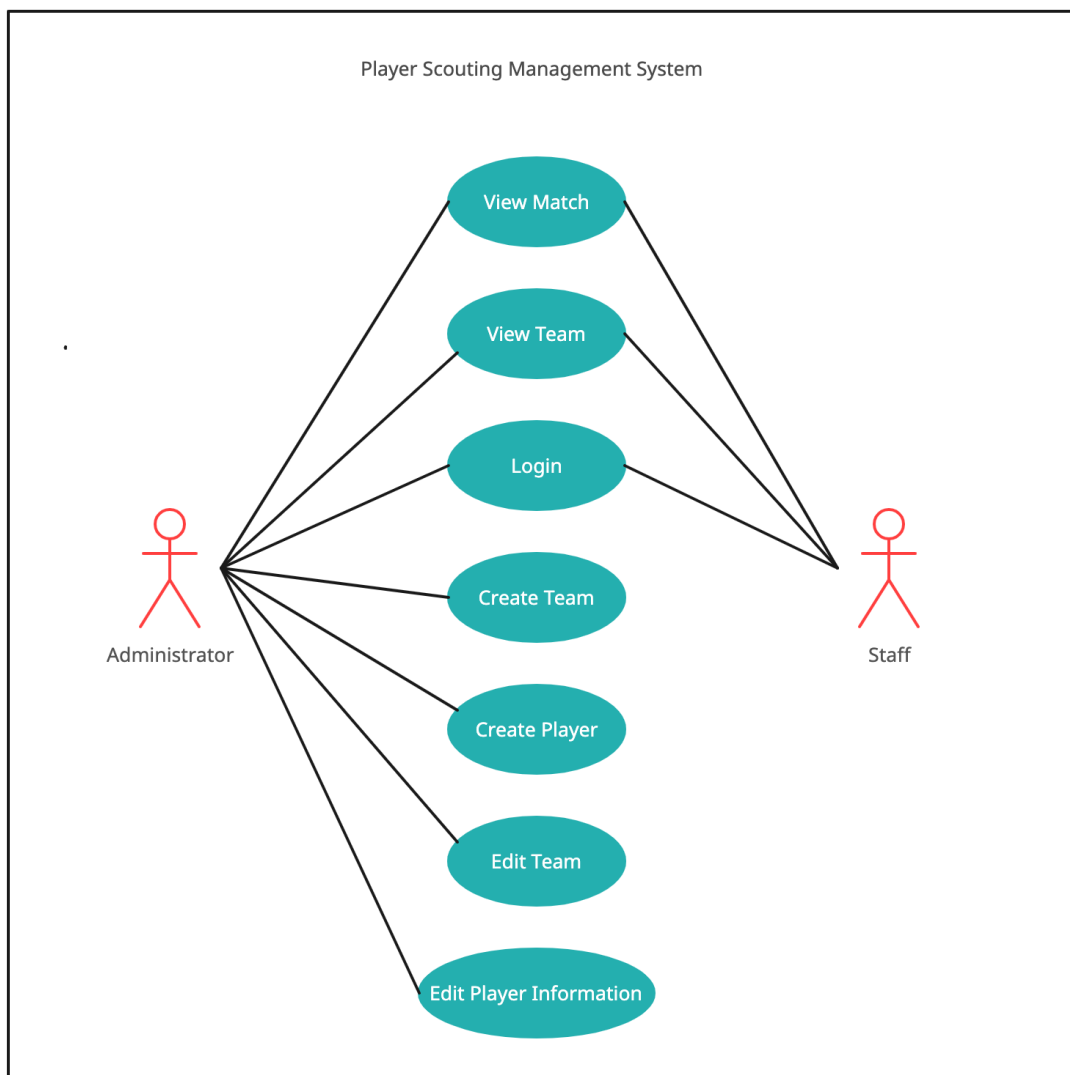


Figure 5.2 Player Scouting Management System Use Case Diagram

5.2 ACTIVITY DIAGRAM

Activity diagram is a series of actions or flow of control in a system similar to a flow chart or data flow diagram. Below are the activity diagram for Player Scouting Management System.

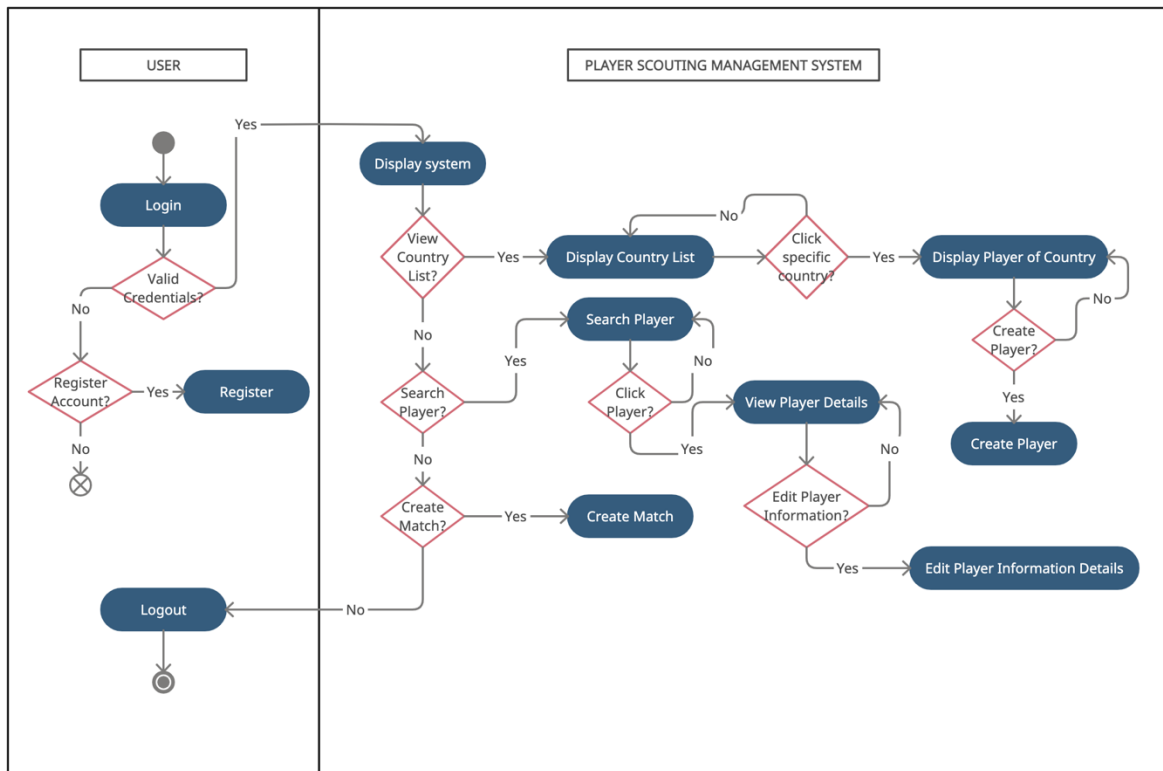


Figure 5.3 Activity Diagram

5.3 AUTHENTICATION

Authentication is activity user that performed using specific credentials or details. For this project, we are using email and password as our authentication basis. Below are the authentication process figure throughout the system.

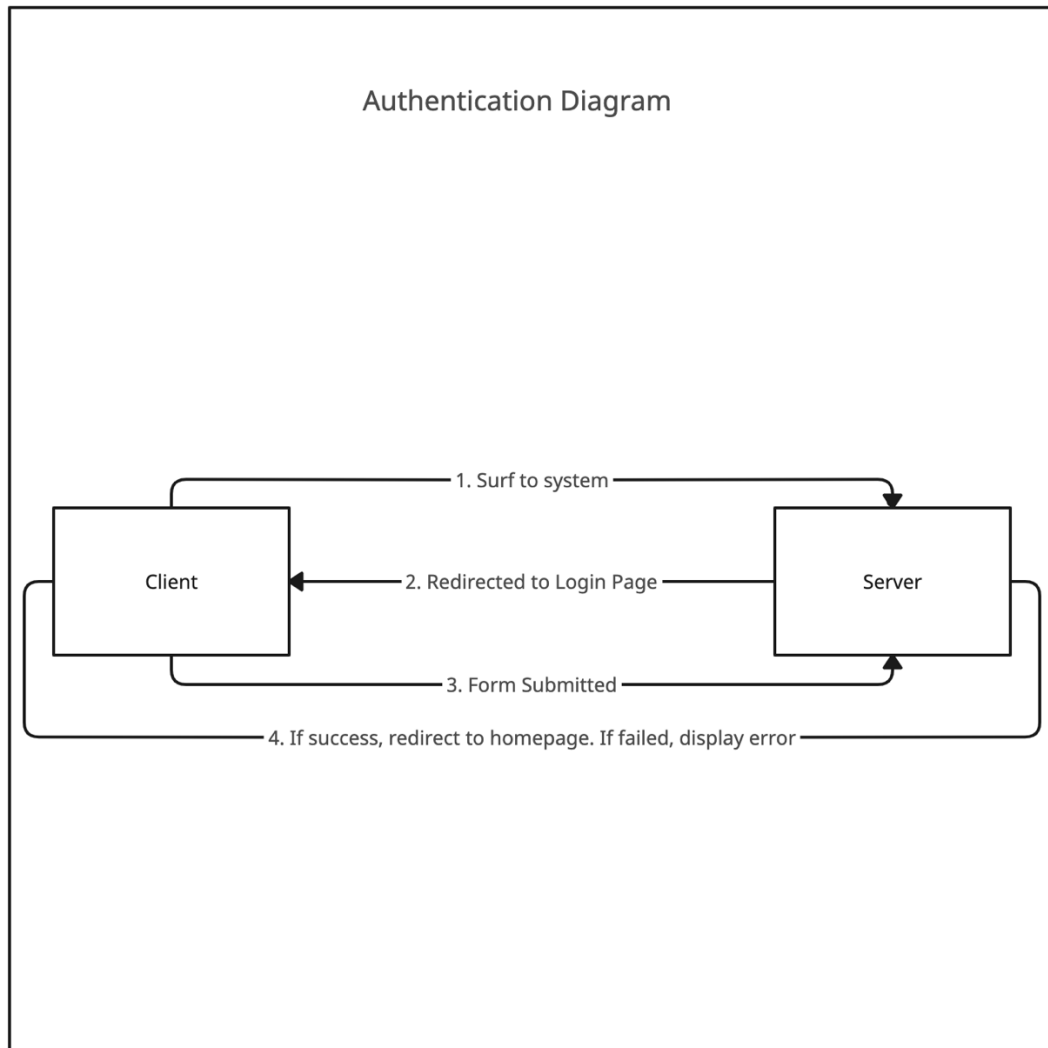


Figure 5.4 Authentication Diagram

6 REFERENCES

1. Kattner, M. (no date) *FIFA, US Soccer. Sponsored by Volkswagen*. Available at: <https://www.ussoccer.com/history/organizational-structure/fifa> (Accessed: January 29, 2023).
2. *Official documents* (no date) *FIFA Official Documents*. FIFA World Cup. Available at: <https://www.fifa.com/about-fifa/official-documents> (Accessed: January 29, 2023).
3. *FIFA World Cup* (2023) *Wikipedia*. Wikimedia Foundation. Available at: https://en.wikipedia.org/wiki/FIFA_World_Cup (Accessed: January 29, 2023).