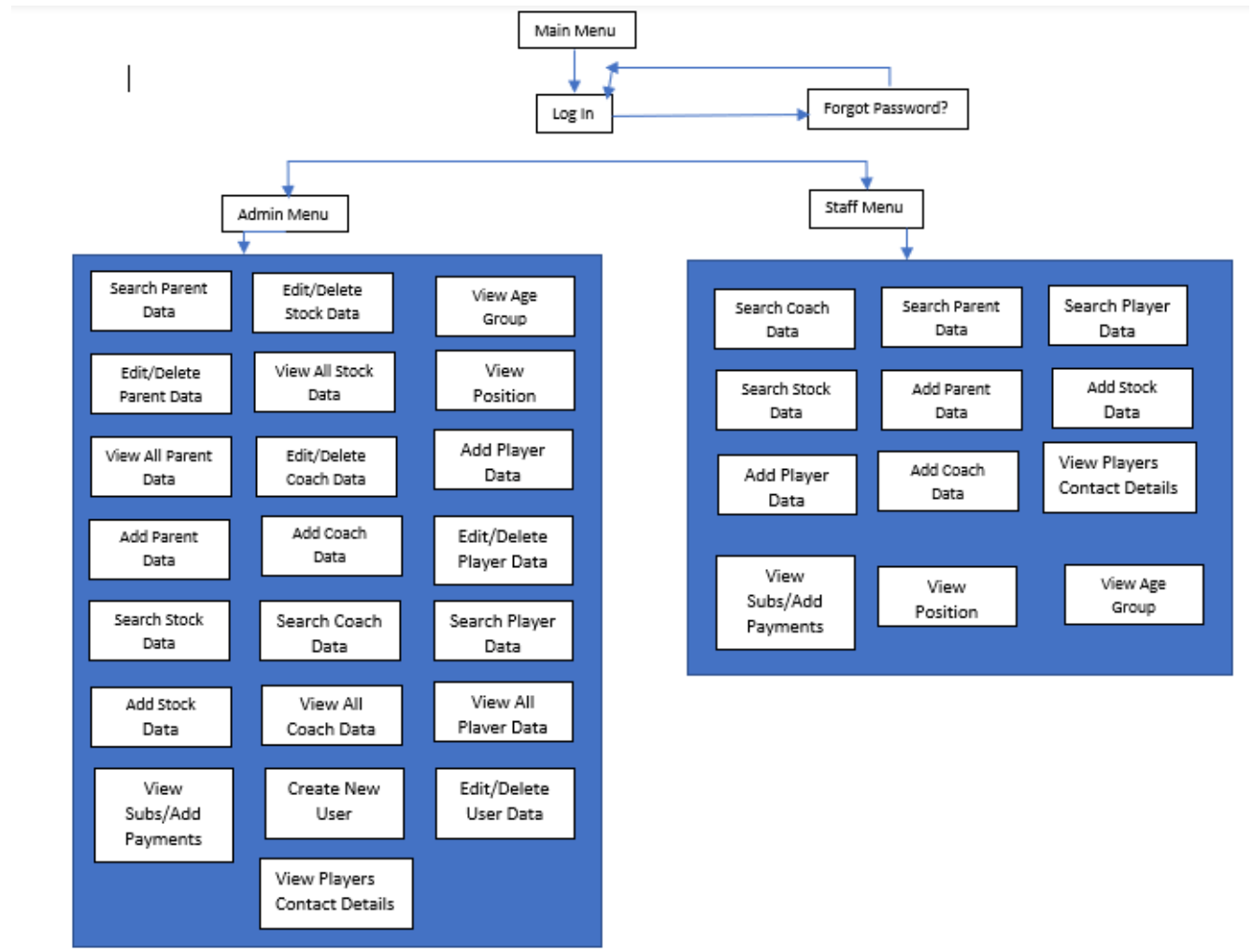
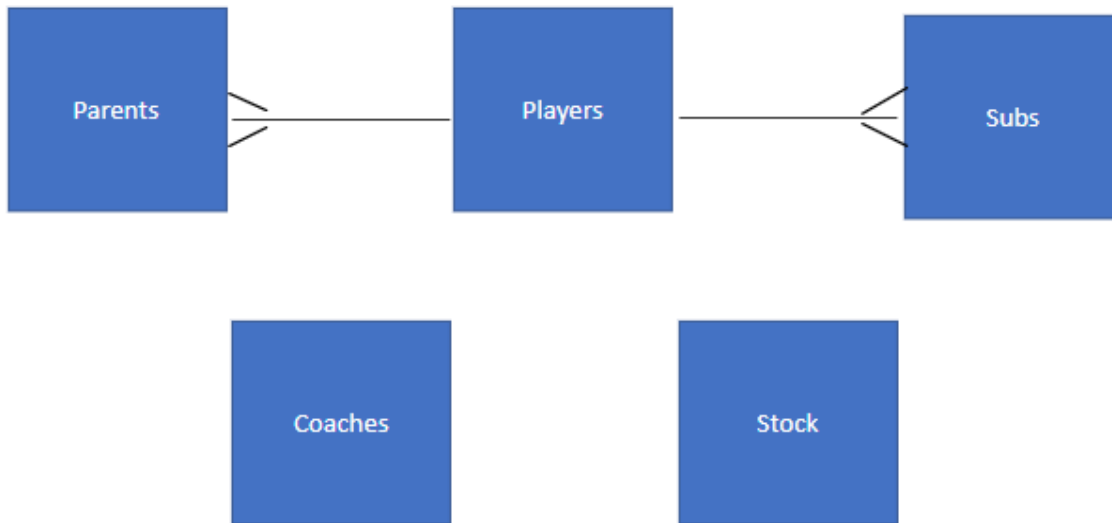


Design

System Access Table -



ER Diagram -

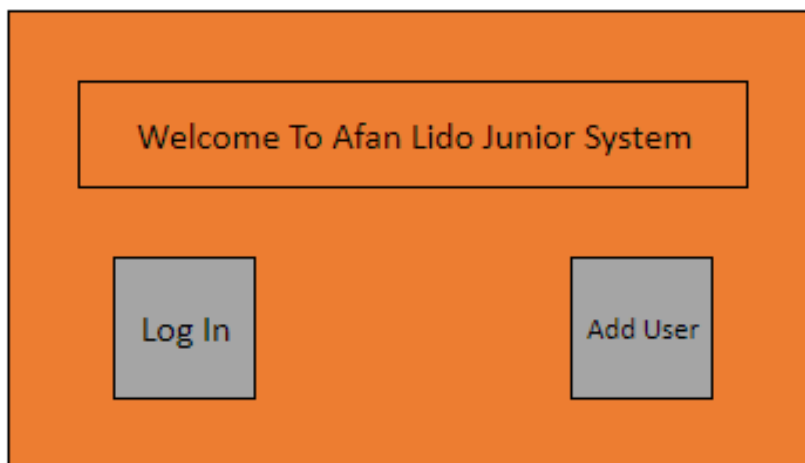


Forms -

Welcome Menu

Log In Button – butWelcomeMenuLogIn

Add User Button - butWelcomeMenuAddUser



Log In

Username Textbox – txtLogInUsername

Password Textbox – txtLogInPassword

Log in Button – butLogIn

Forgot Password Button - butLogInForgotPassword

Log In

Username

Password

Log In

Forgot Password

Admin Menu

Add Parent Button – butAdminAddParent

Edit/Delete Parent Button – butAdminEditDeleteParent

Search Parent Button – butAdminSearchParent

View All Parents Button – butAdminViewAllParents

View Age Group Button – butAdminViewAgeGroup

Add Coach Button – butAdminAddCoach

Edit/Delete Coach Button – butAdminEditDeleteCoach

Search Coach Button - butAdminSearchCoach

View All Coaches Button – butAdminViewAllCoaches

View Subs Payments/Add Payment Button – butAdminViewSubsAddPayment

Add Stock Button – butAdminAddStock

Edit/Delete Stock Button – butAdminEditDeleteStock

Search Stock Button – butAdminSearchStock

View All Stock Button – butAdminViewAllStock

View Player's Contact Details Button – butAdminViewPlayerContactDetails

Add New User Button – butAdminAddNewUser



Staff Menu

Add Parent Button – `butStaffAddParent`

Search Parent Button – `butStaffSearchParent`

View Age Group Button – `butStaffViewAgeGroup`

Add Coach Button – `butStaffAddCoach`

Search Coach Button – `butStaffSearchCoach`

View Position Button – `butStaffViewPosition`

Add Player Button – `butStaffAddPlayer`

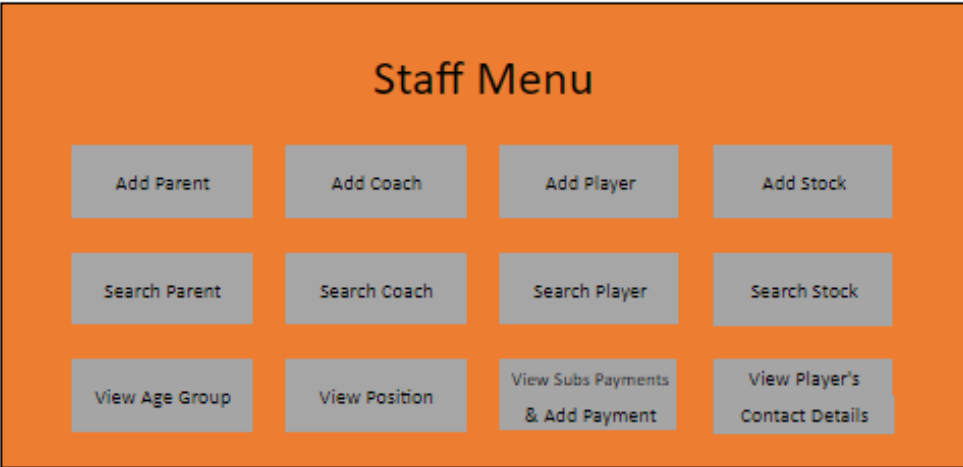
Search Player Button – `butStaffSearchPlayer`

View Subs Payments/Add Payment Button – `butStaffViewSubsAddPayment`

Add Stock Button – `butStaffAddStock`

Search Stock Button – `butStaffSearchStock`

View Player's Contact Details - `butStaffViewPlayerContactDetails`



Add Player

Player ID Textbox – txtAddPlayerID

First Name Textbox – txtAddPlayerFName

Surname Textbox – txtAddPlayerSurname

DoB Textbox – txtAddPlayerDoB

Age Group Combo Box – comAddPlayerAgeGroup

Position Combo Box – comAddPlayerPosition

Parent ID Combo Box – comAddPlayerParentID

Save Button – butAddPlayerSave

Close Button - butAddPlayerClose

The image shows a screenshot of a web form titled "Add Players Data". The form is set against an orange background. At the top center is a grey button labeled "Add Players Data". Below it are several input fields: "PlayerID" (a single-line text box), "First Name" and "Surname" (two stacked text boxes), "DoB" (three text boxes separated by slashes), "Age Group" (a text box), "Position" (a text box), and "Parent ID" (a text box). At the bottom of the form are two grey buttons: "Save" on the left and "Close" on the right.

Add Parent

Parent ID Textbox – txtAddParentID

First Name Textbox – txtAddParentFName

Surname Textbox – txtAddParentSurname

DoB Textbox – txtAddParentDoB

Postcode Textbox – txtAddParentPostcode

Street Textbox – txtAddParentStreet

Town Textbox – txtAddParentTown

City Textbox – txtAddParentCity

Contact No. Textbox – txtAddParentPhoneNum

Email Textbox – txtAddParentEmail

Save Button – butAddParentSave

Close Button - butAddParentClose

The image shows a web form titled "Add Parent Data" on an orange background. The form contains the following fields and controls:

- Add Parent Data**: Title button at the top center.
- ParentID**: A single-line text input field.
- First Name**: A single-line text input field.
- Surname**: A single-line text input field.
- DoB**: A date input field with three separate boxes for day, month, and year, separated by slashes.
- Postcode**: A single-line text input field.
- Street**: A single-line text input field.
- Town**: A single-line text input field.
- City/County**: A single-line text input field.
- Contact No.**: A multi-line text input field with a grid of 10 small boxes for digits.
- Email**: A single-line text input field.
- Save**: A button at the bottom left.
- Close**: A button at the bottom right.

Add Coach

Coach ID Textbox – txtAddCoachID

First Name Textbox – txtAddCoachFName

Surname Textbox – txtAddCoachSurname

DoB Textbox – txtAddCoachDoB

Postcode Textbox – txtAddCoachPostcode

Street Textbox – txtAddCoachStreet

Town Textbox – txtAddCoachTown

City Textbox – txtAddCoachCity

Contact No. Textbox – txtAddCoachPhoneNum

Email Textbox – txtAddCoachEmail

Save Button – butAddCoachSave

Close Button - butAddCoachClose

Add Coaches Data

CoachID

First Name

Surname

DoB / /

Postcode

Street

Town

City/County

Contact No.

Email

Add Stock

Description Textbox – txtAddStockDescription

Quantity Textbox – txtAddStockQuantity

Extra Notes Textbox - txtAddStockExtraNotes

Add Stock Data

Description

Quantity

Extra Notes

Edit Coach

Coach ID Textbox – txtEditCoachID

First Name Textbox – txtEditCoachFName

Surname Textbox – txtEditCoachSurname

DoB Textbox – txtEditCoachDoB

Postcode Textbox – txtEditCoachPostcode

Street Textbox – txtEditCoachStreet

Town Textbox – txtEditCoachTown

City Textbox – txtEditCoachCity

Contact No. Textbox – txtEditCoachPhoneNum

Email Textbox – txtEditCoachEmail

Save Button – butEditCoachSave

Close Button – butEditCoachClose

Previous Button – butEditCoachPrevious

Next Button – butEditCoachNext

Delete Coach Button - butEditCoachDelete

The screenshot shows a web form titled "Edit Coaches Data" with an orange background. The form contains the following fields and controls:

- Coach ID:** A single-line text input field.
- First Name:** A wide text input field.
- Surname:** A wide text input field.
- DoB:** Three text input fields separated by slashes, for day, month, and year.
- Postcode:** A text input field.
- Street:** A wide text input field.
- Town:** A wide text input field.
- City/County:** A wide text input field.
- Contact No.:** A series of ten small text input boxes for digits.
- Email:** A wide text input field.
- Navigation Buttons:** "Previous", "Next", "Save", and "Close" buttons.
- Delete Button:** A wide "Delete Coach" button at the bottom.

Edit Parent

Parent ID Textbox – txtEditParentID

First Name Textbox – txtEditParentFName

Surname Textbox – txtEditParentSurname

DoB Textbox – txtEditParentDoB

Postcode Textbox – txtEditParentPostcode

Street Textbox – txtEditParentStreet

Town Textbox – txtEditParentTown

City Textbox – txtEditParentCity

Contact No. Textbox – txtEditParentPhoneNum

Email Textbox – txtEditParentEmail

Save Button – butEditParentSave

Close Button – butEditParentClose

Previous Button – butEditParentPrevious

Next Button – butEditParentNext

Delete Parent Button – butEditParentDelete

The image shows a screenshot of a web form titled "Edit Parents Data" on an orange background. The form contains the following elements:

- Parent ID:** A single-line text input field.
- First Name:** A wide text input field.
- Surname:** A wide text input field.
- DoB:** A date input field with three separate boxes for day, month, and year, separated by slashes.
- Postcode:** A text input field.
- Street:** A wide text input field.
- Town:** A wide text input field.
- City/County:** A wide text input field.
- Contact No.:** A numeric input field with individual boxes for each digit.
- Email:** A wide text input field.
- Navigation Buttons:** Four buttons labeled "Previous", "Next", "Save", and "Close" are arranged horizontally.
- Delete Parent Button:** A wide button labeled "Delete Parent" is located at the bottom of the form.

Edit Stock

Description Textbox – txtEditStockDescription

Quantity Textbox – txtEditStockQuantity

Extra Notes Textbox – txtEditStockExtraNotes

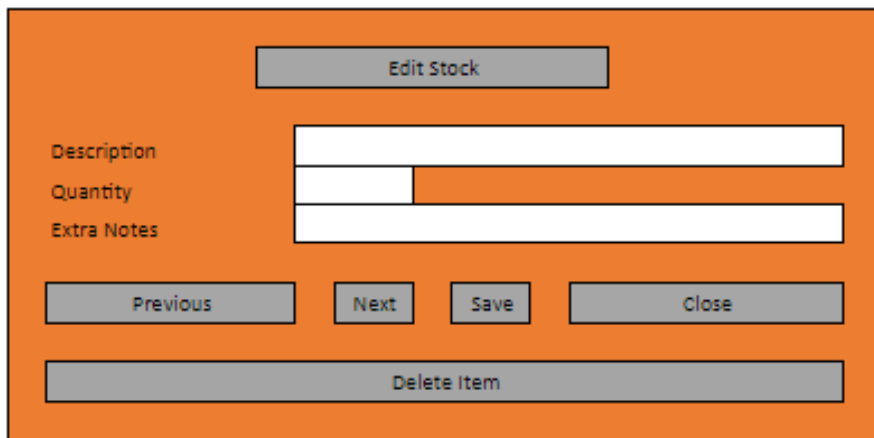
Save Button – butEditStockSave

Close Button – butEditStockClose

Previous Button – butEditStockPrevious

Next Button – butEditStockNext

Delete Item Button - butEditStockDelete



The screenshot shows a form titled "Edit Stock" with an orange background. At the top center is a button labeled "Edit Stock". Below it are three text input fields: "Description", "Quantity", and "Extra Notes". The "Quantity" field is a small, narrow box, while the others are wider. Below the text boxes is a row of four buttons: "Previous", "Next", "Save", and "Close". At the bottom of the form is a wide button labeled "Delete Item".

Edit Player

Player ID Textbox – txtEditPlayerID

First Name Textbox – txtEditPlayerFName

Surname Textbox – txtEditPlayerSurname

DoB Textbox – txtEditPlayerDoB

Age Group Combo Box – comEditPlayerAgeGroup

Position Combo Box – comEditPlayerPosition

Parent ID Combo Box – comEditPlayerParentID

Save Button – butEditPlayerSave

Close Button – butEditPlayerClose

Previous Button – butEditPlayerPrevious

Next Button – butEditPlayerNext

Delete Player Button – butEditPlayerDelete

The image shows a web form with an orange background. At the top center is a button labeled "Edit Players Data". Below this are several input fields: "Player ID" (a single line), "First Name" (a wide line), "Surname" (a wide line), "DoB" (three lines with slashes between them), "Age Group" (a wide line), "Position" (a wide line), and "Parent ID" (a single line). At the bottom of the form are four buttons: "Previous", "Next", "Save", and "Close". Below these buttons is a large button labeled "Delete Player".

Edit User

Username Textbox – txtEditUserUsername

Access Level Textbox – txtEditUserAccessLevel

First Name Textbox – txtEditUserFName

Surname Textbox – txtEditUserSurname

DoB Textbox – txtEditUserDoB

Password Textbox – txtEditUserPassword

Security Question – txtEditUserSecurityQ

Security Answer – txtEditUserSecurityAnswer

Previous Button – butEditUserPrevious

Close Button – butEditUserClose

Save Button – butEditUserSave

Next Button – butEditUserNext

Delete Button - butEditUserDelete

Edit User

Username

Access Level

First Name

Surname

Date of Birth / /

Password

Security Question

Security Answer

Previous **Close** **Save** **Next**

Delete User

Search Parents

Search Button - butSearchParent

Search Parents

Search

Search Players

Search Button – butSearchPlayer



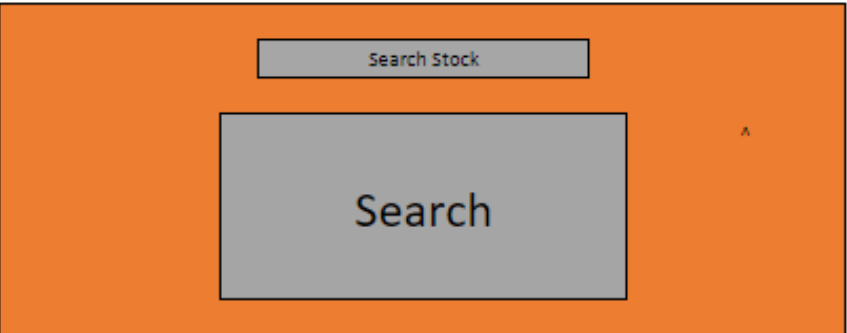
Search Coaches

Search Button – butSearchCoach



Search Stock

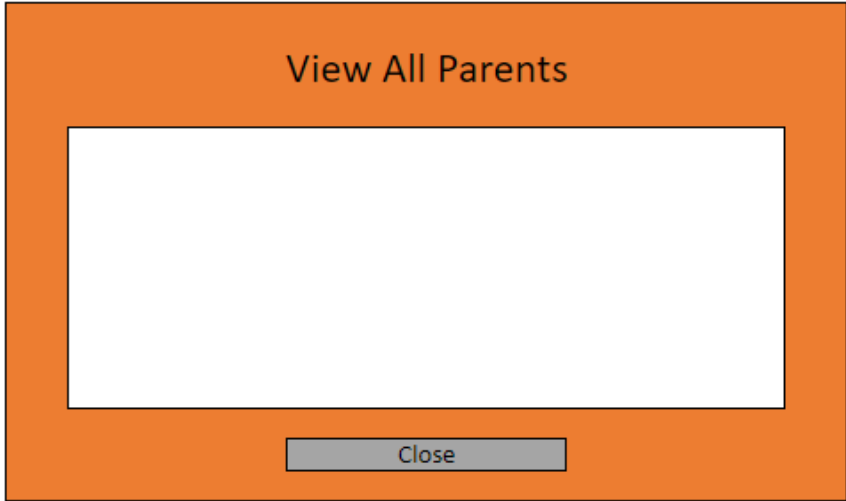
Search Button – butSearchStock



View All Parents

All Parents Rich Textbox – rtbViewAllParents

Close Button – butViewAllParentsClose



View All Players

All Players Rich Textbox – rtbViewAllPlayers

Close Button – butViewAllPlayersClose



View All Coaches

All Coaches Rich Textbox – rtbViewAllCoaches

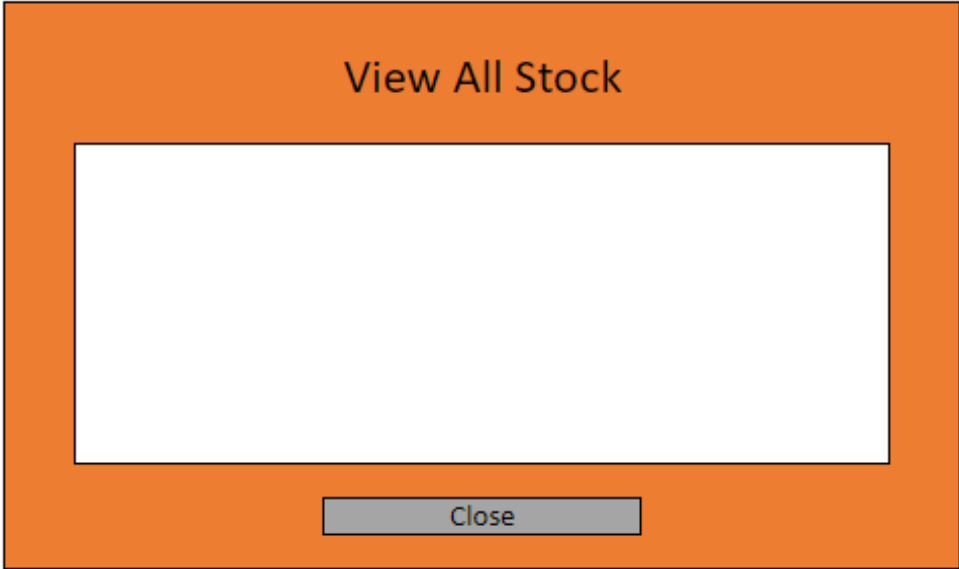
Close Button – butViewAllCoachesClose



View All Stock

All Stock Rich Textbox – rtbViewAllStock

Close Button – butViewAllStockClose

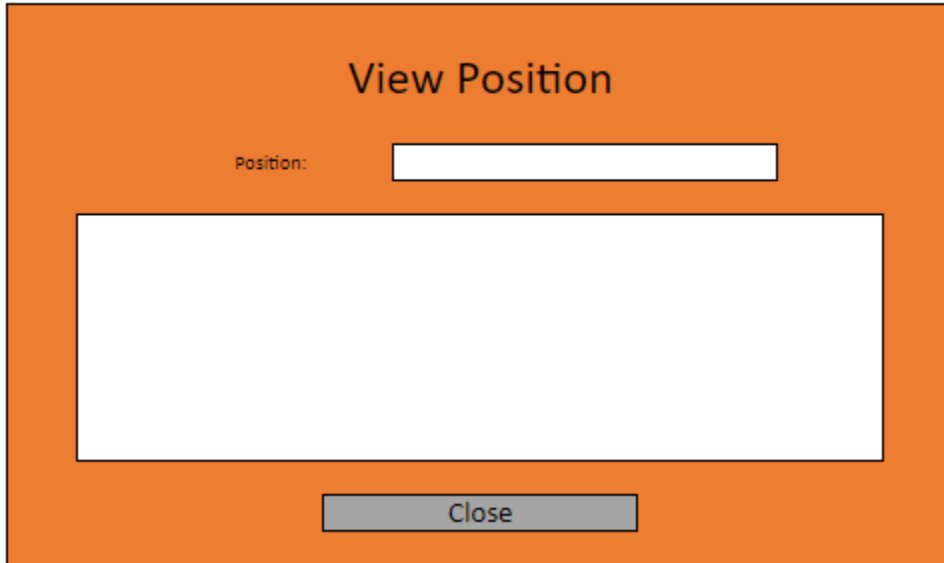


View Position

Position Combobox – comViewPosition

All Position Rich Textbox – rtbViewPosition

Close Button - butViewPositionClose



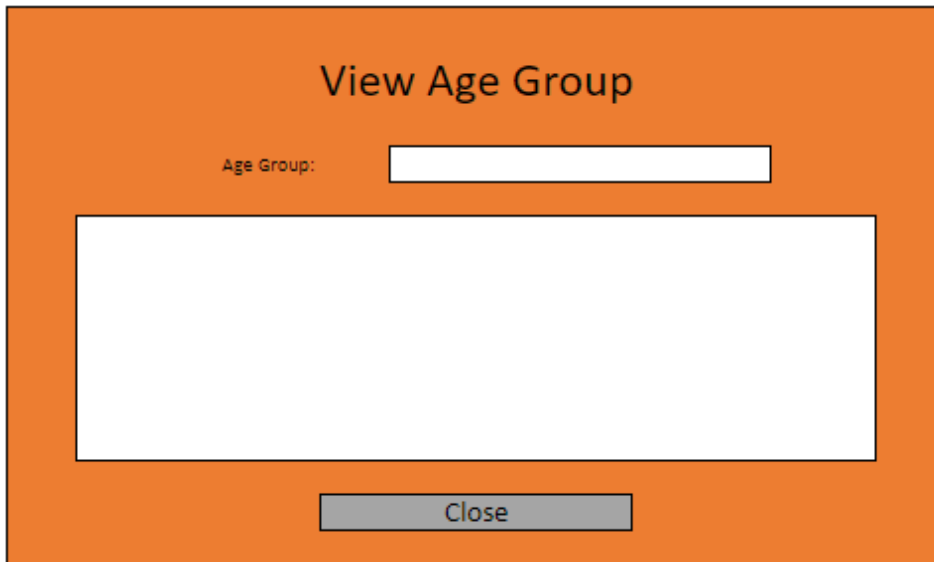
The image shows a dialog box titled "View Position" with an orange background. At the top center is the title "View Position". Below the title, on the left, is the label "Position:" followed by a white rectangular input field. In the center of the dialog is a large white rectangular area, likely a placeholder for a map or image. At the bottom center is a grey rectangular button labeled "Close".

View Age Group

Age Group Combobox – comViewAgeGroup

All Age Group Rich Textbox – rtbViewAgeGroup

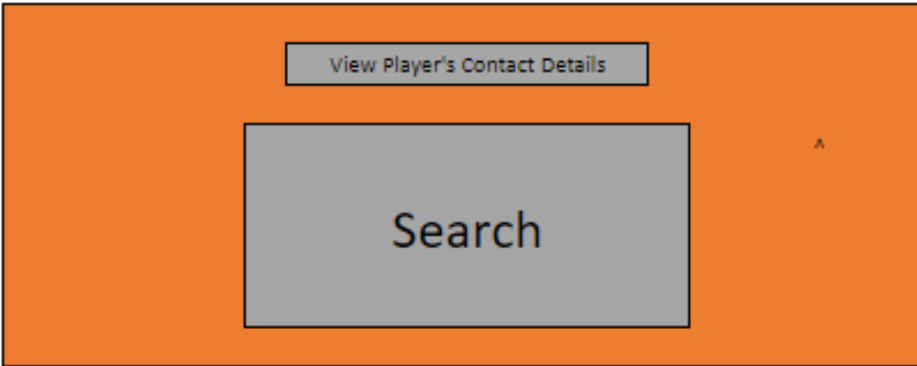
Close Button – butViewAgeGroupClose



The image shows a dialog box titled "View Age Group" with an orange background. At the top center is the title "View Age Group". Below the title, on the left, is the label "Age Group:" followed by a white rectangular input field. In the center of the dialog is a large white rectangular area, likely a placeholder for a map or image. At the bottom center is a grey rectangular button labeled "Close".

View Player Contact Details

Search Button – butSearchPlayerContactDetails



Create New User

Access Level Combobox – comCreateUserAccessLevel

First name Textbox – txtCreateUserFName

Surname Textbox – txtCreateUserSurname

DoB Textbox – txtCreateUserDoB

Password Textbox – txtCreateUserPassword

Confirm Password Textbox – txtCreateUserConfPassword

Security Question Textbox – txtCreateUserSecurityQ

Security Answer Textbox - txtCreateUserSecurityAnswer

The image shows a 'Create New User' form with an orange background. At the top center is a grey button labeled 'Create New User'. Below it are several input fields: 'Access Level' (a single line), 'First Name' (a single line), 'Surname' (a single line), 'Date of Birth' (three separate boxes with slashes between them), 'Password' (a single line), 'Confirm Password' (a single line), 'Security Question' (a single line), and 'Security Answer' (a single line). At the bottom left is a grey button labeled 'Save', and at the bottom right is a grey button labeled 'Close'.

View Subs Payments/Add Payments

Select Team Combobox – comSubsSelectTeam

Subs Rich Textbox – rtbSubsPayments

Age Group Combobox – comSubsAgeGroup

Player ID Combobox – comSubsPlayerID

Amount Paid Textbox – txtAmountPaid

Make Payment Button - butSubsMakePayment

Parents

File Name – Parent Details

File Description – This file contains all the details of the parents of the players. These details contain their name, address, date of birth, and other data.

File Access – Admins can add, edit, delete, search and view all parent data, but Staff can just add and search for this data.

File Capacity – This file will contain a lot of data and it will increase frequently.

Data Structure Table -

Field Name	Data Type	Size	Description	Data Example	Validation	Primary Key
ParentID	Integer	6	The unique ID used to identify the parent easily.	PNT001	Presence Check	*
First Name	String	20	The first name of the parent.	David	Presence Check	
Surname	String	20	The surname of the parent.	Davidson	Presence Check	
Date of Birth	Date	10	The parent's date of birth.	09/05/1990	Format Check (**/**/****)	
Postcode	String	7	The postcode of the parent's house.	Sa117YT	Length Check (Must be no more than 7 digits)	
Street	String	30	The parent's home street.	Sandown Street	Presence Check	

Town	String	20	The town in which the parent lives.	Grimsby	Presence Check	
City/County	String	20	The city or county in which the parent lives.	Yorkshire	Presence Check	
Contact No.	String	11	The parent's contact number	07152228854	Length Check (Must be 11 digits)	
Email	String	50	The parent's email address.	DaveD@gmail.com	Format Check (*@*.*)	

Players

File Name – Player Details

File Description – This file contains all the data and information of the players who play at the football club. These details contain their name, position, date of birth, their parent's ID and other information.

File Access – Admins can add, edit, delete, search, and view this data, while staff can just add and search for it.

File Capacity – This file will contain a lot of data, and more is added regularly.

Data Structure Table -

Field Name	Data Type	Size	Description	Data Example	Validation	Primary Key
Player ID	Integer	6	The unique identifier for the player.	PLY001	Presence Check	*
Player First Name	String	20	The player's first name.	Stephen	Presence Check	
Player Surname	String	20	The surname of the player.	Lawson	Presence Check	
Date of Birth	Date	10	The player's date of birth.	23/04/2003	Format Check (Must follow *@*.*)	
Age Group	String	3	The age group in which the player plays for.	U14	Presence Check	
Position	String	20	The player's position on the field.	Goalkeeper	List Check (Must be either Goalkeeper, Defender, Midfielder or Forward)	
Parent ID	Integer	6	The unique identifier for the player's parent.	PNT001	Presence Check	

Coaches

File Name – Coach Details

File Description – This file contains all the data and information of the coaches who work at the football club. These details contain their name, address, Date of Birth and other information.

File Access – Admins can add, edit, delete, search and view all of this data, but staff members can only search and add coaches data.

File Capacity – This file will contain on average 10 to 20 people and will not change frequently.

Data Structure Table -

Field Name	Data Type	Size	Description	Data Example	Validation	Primary Key
CoachID	Integer	6	The unique identifier for the coach.	COA001	Presence Check	*
First Name	String	20	The first name of the coach.	David	Presence Check	
Surname	String	20	The surname of the coach.	Smith	Presence Check	
Date of Birth	Date	10	The date of birth of the coach.	09/02/1991	Format Check (must follow **/**/****)	
Postcode	String	7	The postcode of the coach.	SA11 8AS	Length check (must be 6 or 7 characters long)	
Street	String	20	The street of the coach.	Southdown Street	Presence Check	
Town	String	20	The town where the coach lives.	Grimsby	Presence Check	
City/County	String	20	The city or county in which the coach lives.	Birmingham	Presence Check	
Contact No.	String	11	The contact number of the coach.	07353241789	Length Check (Must be 11 digits long)	
Email	String	50	The email of the coach.	Davids@outlook.com	Format Check (must follow *@*.*)	
Age Group Coached	String	3	The age group which the coach takes charge of.	U13	Presence Check	

Stock

File Name – Stock Details

File Description – This file contains all the data and information of the stock that is stored at the football club. These details contain their description, the quantity and any extra notes needed about the items.

File Access – Admins can add, edit, delete, search and view all this data, but staff members can only search and add stock data.

File Capacity – This file will contain on average 10 to 20 items and doesn't change often.

Data Structure Table -

Field Name	Data Type	Size	Description	Data Example	Validation	Primary Key
StockID	String	6	The unique identifier for the item.	STK31	Presence Check	*
Description	String	20	The name of the item.	Size 5 Footballs	Presence Check	
Quantity	String	3	The amount of the item the band has.	130	Presence Check	
Extra Notes	String	1000	Any extra information about the particular item that may be necessary.	Mixture of colours, red, orange, blue, yellow	Presence Check	

Users

File Name – User Details

File Description – This file contains all the data and information of the Users that have access to the system. These details contain their Username, Password, Date of Birth etc.

File Access – Admins can add, edit and delete this data, while Staff have no access to this data.

File Capacity – This file will contain between 5 to 10 users and doesn't change often.

Data Structure Table -

Field Name	Data Type	Size	Description	Data Example	Validation	Primary Key
Username	String	20	The Username of the user which is used to sign in.	DaviesT11	Presence Check	*
First Name	String	20	The first name of the user.	Terry	Presence Check	
Surname	String	3	The surname of the user.	Davies	Presence Check	
Date of Birth	String	1000	The date of birth of the user.	11/06/1991	Format Check (Must follow **/**/****)	
Password	String	20	The password the user uses to sign in.	TerryDav123	Length Check (Must be	

					minimum 8 characters)	
Security Question	String	50	The question the user is asked when they forget their password.	Favourite Colour?	Presence Check	
Security Answer	String	30	The answer to the user's security question.	Orange	Presence Check	

Algorithms -

Welcome Menu -

When 'Log In' button is pressed, Open Log In Form

Log In -

Input username

Input Password

If Username = "" then output 'You must enter a username'

If Password = "" then output 'You must entry a password'

If Username and password is recognised, output 'Welcome to the system'

Else, output 'Username and/or password is incorrect, try again'

If User Access Level = 'Admin', open Admin Menu

Else, open Staff Menu

If 'Forgot Password' button is pressed, Output 'enter username'

If Username entered is not recognised, Output 'Username not found, please try again'

Else, Output Security Question

If Security Question matches Security Answer, Output Password

Else, Output 'Security Answer is incorrect. Try again'

Add Parent Data -

Input First Name

if this is blank, print (First Name must be entered)

Input Surname

if this is blank, print (Surname must be entered)

Input DoB

if this doesn't follow the format, print (DoB must follow **/**/****)

Input Postcode

if this isn't 6/7 characters long, print (Postcode must be 6 or 7 characters long)

Input Street

if this is blank, print (Street must be entered)

Input Town

if this is blank, print (Town must be entered)

Input City/County

if this is blank, print (City/County must be entered)

Input Contact No.

if this isn't 11 digits long, print (Contact No. Must be 11 digits long)

Input Email

if this doesn't follow the format, print (Email must follow format *@*.*)

If save button is pressed, save data to text file

If close button is pressed, close form

Add Coach Data -

Input First Name

if this is blank, print (First Name must be entered)

Input Surname

if this is blank, print (Surname must be entered)

Input DoB

if this doesn't follow the format, print (DoB must follow **/**/****)

Input Postcode

if this isn't 6/7 characters long, print (Postcode must be 6 or 7 characters long)

Input Street

if this is blank, print (Street must be entered)

Input Town

if this is blank, print (Town must be entered)

Input City/County

if this is blank, print (City/County must be entered)

Input Contact No.

if this isn't 11 digits long, print (Contact No. Must be 11 digits long)

Input Email

if this doesn't follow the format, print (Email must follow format *@*.*)

If save button is pressed, save data to text file

if close button is pressed, close form

Add Stock Form -

Input Description

If this is blank, print (you must enter a description)

Input Quantity

If this is blank, print (You must enter a quantity)

Input Extra Notes

If this is blank, print (You must enter some extra notes)

If save button is pressed, save data in text file

If close button is pressed, close form

Create New User -

Select Access Level

If this is blank, print (You must select an access level)

Input First Name

if this is blank, print (First Name must be entered)

Input Surname

if this is blank, print (Surname must be entered)

Input DoB

if this doesn't follow the format, print (DoB must follow **/**/****)

Input Password

if this is blank, print (Password must be entered)

Input Confirm Password

If this does not match Password, print (Passwords must match)

Input Security Question

if this is blank, print (Question must be entered)

Input Security Answer

if this is blank, print (Security Answer must be entered)

If Save button is pressed, save data to text file

If close button is pressed, close form

Add Player Data -

Input First Name

if this is blank, print (First name must be entered)

Input Surname

if this is blank, print (Surname must be entered)

Input DoB

if this doesn't follow the format, print (DoB must follow **/**/*****)

Select age group

If this is blank, print (Age Group must be selected)

Select Position

If this is blank, print (Position must be selected)

Input ParentID

If this is blank, print (ParentID must be selected)

If save button is pressed, save data

If close button is pressed, close form

Edit/Delete Parent Data -

Bring up all the parent data records ordered, allowing the user to go through them until they find the correct one

Allow them to remove a field of data and input the new data

Run the necessary validation check on the new data

If save button is pressed, save new data

If close button is pressed, close form

If next button is pressed, move to next record

If previous button is pressed, move to previous record

If delete button is pressed, delete the record shown

Edit/Delete Coaches Data -

Bring up all the coach data records ordered, allowing the user to go through them until they find the correct one

Allow them to remove a field of data and input the new data

Run the necessary validation check on the new data

If save button is pressed, save new data

If close button is pressed, close form

If next button is pressed, move to next record

If previous button is pressed, move to previous record

If delete button is pressed, delete the record shown

Edit/Delete Player Data -

Bring up all the player data records ordered, allowing the user to go through them until they find the correct one

Allow them to remove a field of data and input the new data

Run the necessary validation check on the new data

If save button is pressed, save new data

If close button is pressed, close form

If next button is pressed, move to next record

If previous button is pressed, move to previous record

If delete button is pressed, delete the record shown

Edit/Delete Stock Data -

Bring up all the stock data records ordered, allowing the user to go through them until they find the correct one

Allow them to remove a field of data and input the new data

Run the necessary validation check on the new data

If save button is pressed, save new data

If close button is pressed, close form

If next button is pressed, move to next record

If previous button is pressed, move to previous record

If delete button is pressed, delete the record shown

Edit/Delete User Data -

Bring up all the user data records ordered, allowing the user to go through them until they find the correct one

Allow them to remove a field of data and input the new data

Run the necessary validation check on the new data

If save button is pressed, save new data

If close button is pressed, close form

If next button is pressed, move to next record

If previous button is pressed, move to previous record

If delete button is pressed, delete the record shown

Search Parent Data -

When search button is pressed

Allow the user to input the name of the parent find the form

Display all of the data for that Parent

Search Coaches Data -

When search button is pressed

Allow the user to input the name of the coach to find the form

Display all of the data for that coach

Search Players Data -

When search button is pressed

Allow the user to input the name of the player to find the form

Display all of the data for that player

Search Stock Data -

When search button is pressed

Allow the user to input the name of the item to find the form

Display all of the data for that item

View Age Group -

Select an age group

Display all players in that age group in the rich text box

View Position -

Select a position

Display all players in that position in the rich text box

View Players Contact Details -

Enter the name of a player saved

If name isn't recognised, print (Player not found, please try again)

Else, output the player's parent's name, phone no and email

View All Parents -

Display all parents data in the rich text box

If close button is pressed, close form

View All Players -

Display all players data in the rich text box

If close button is pressed, close form

View All Coaches -

Display all coaches data in the rich text box

If close button is pressed, close form

View All Stock -

Display all stock data in the rich text box

If close button is pressed, close form

View Subs Payments and Add Payments -

View Payments:

Select an age group

Display the player id, player name, amount paid and amount left to pay for all players in that age group in the rich text box

Add Payments:

Select an age group

Select a player ID

Select the amount paid

Press 'Make Payment' Button to add payment

If close button is pressed, close form.

