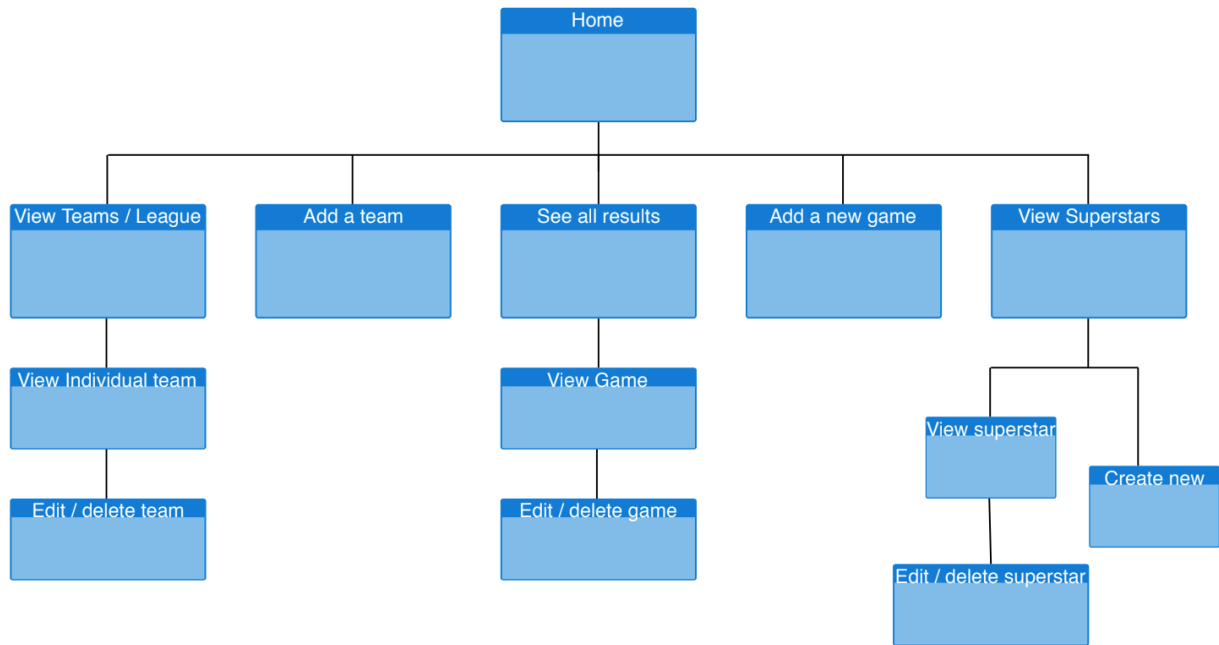


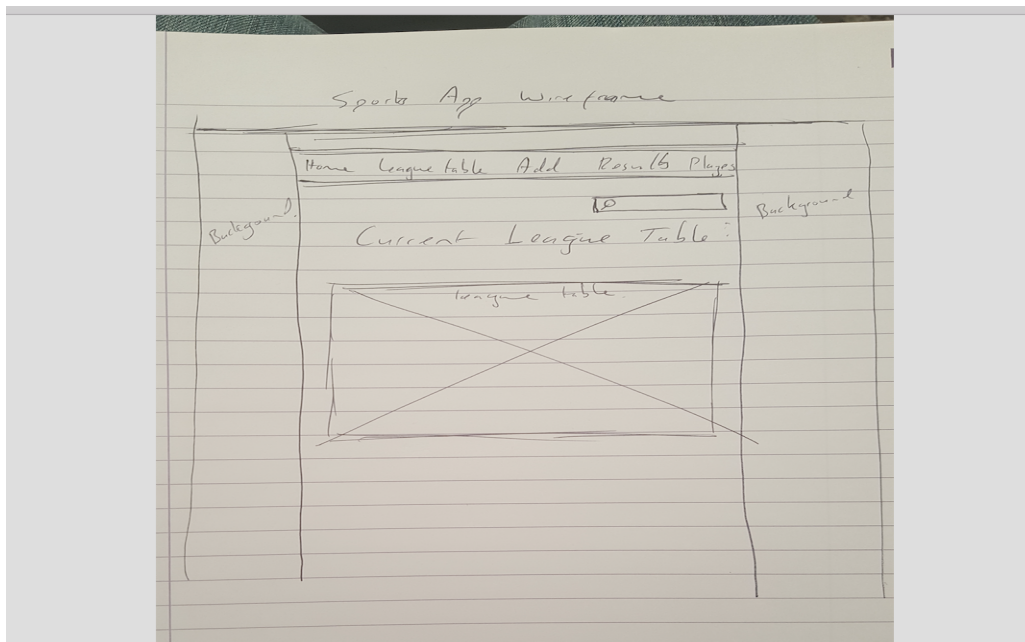
P 5.

Example of user sitemap



P 6.

Example of wireframe design:



P 10.

Example of pseudocode used in method to sort teams in league by points (highest to lowest) and then by goal difference (highest to lowest)

```
Pseudocode for method which sorts league by points difference and then by goal-difference
```

```
Getting the total points for a team:
```

```
total_points = 0
```

```
def add total points for team
```

```
  for game in games_won_by_team, add 3 points (points for win),  
  and add all the points together and add to total_points
```

```
  for game in games_drawn_by_team add 1 point (points for draw),  
  and add all the points together and add to total_points
```

```
end
```

```
return total_points
```

```
Getting the total goals for team:
```

```
work out total goals scored while home team
```

```
work out the total goals scored while away team
```

```
  add these two values together and place in a variable(1)
```

```
work out the total goals conceded while home team
```

```
work out the total goals conceded while away team
```

```
  add these two values together and place in a variable(2)
```

```
Subtract variable 2 from variable 1 and return the result as total_goal_difference
```

```
Sort_by method which sorts league table by points and goal difference:
```

```
having obtained methods to work out total points and total goal difference for each team,  
we need a method to sort the league table first by points(highest to lowest), then by goal difference.
```

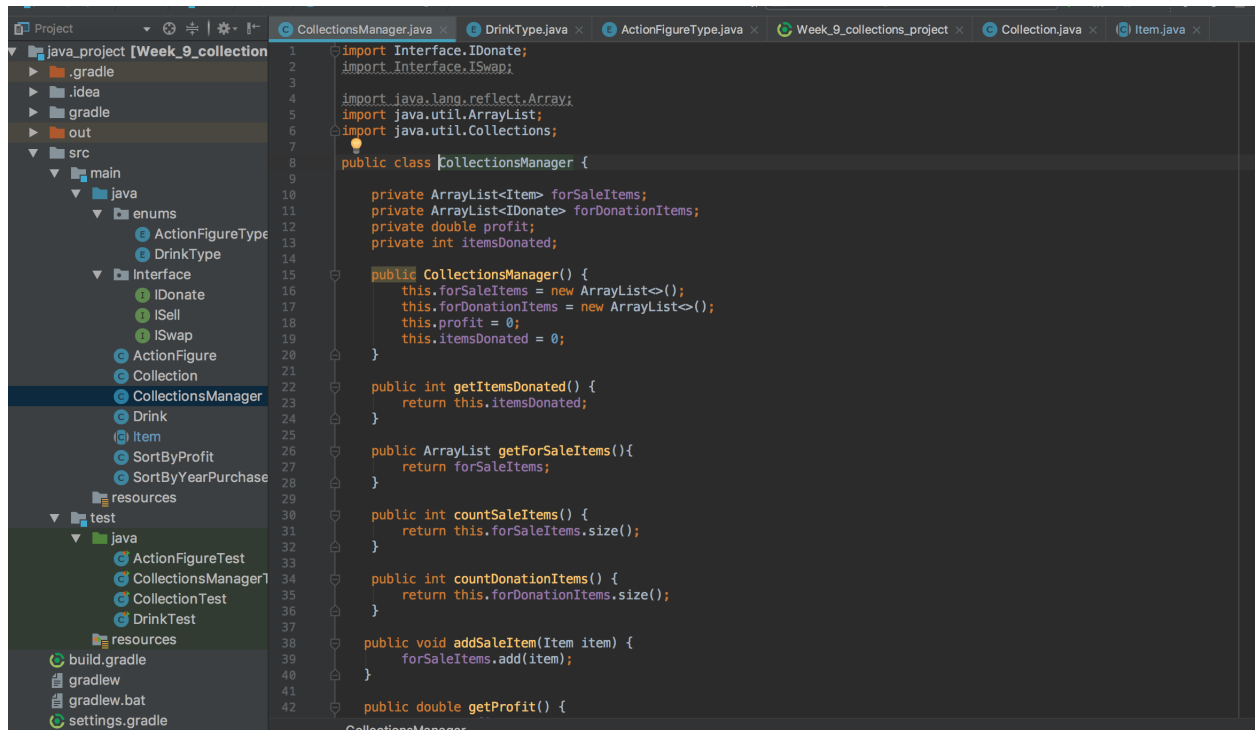
```
First find Teams.all
```

```
assign Team.all to a variable 'teams'
```

```
For each team in teams, sort_by total points first, and by goal difference second.
```

```
return teams, reversed so that the team with most points/highest goal difference is first
```

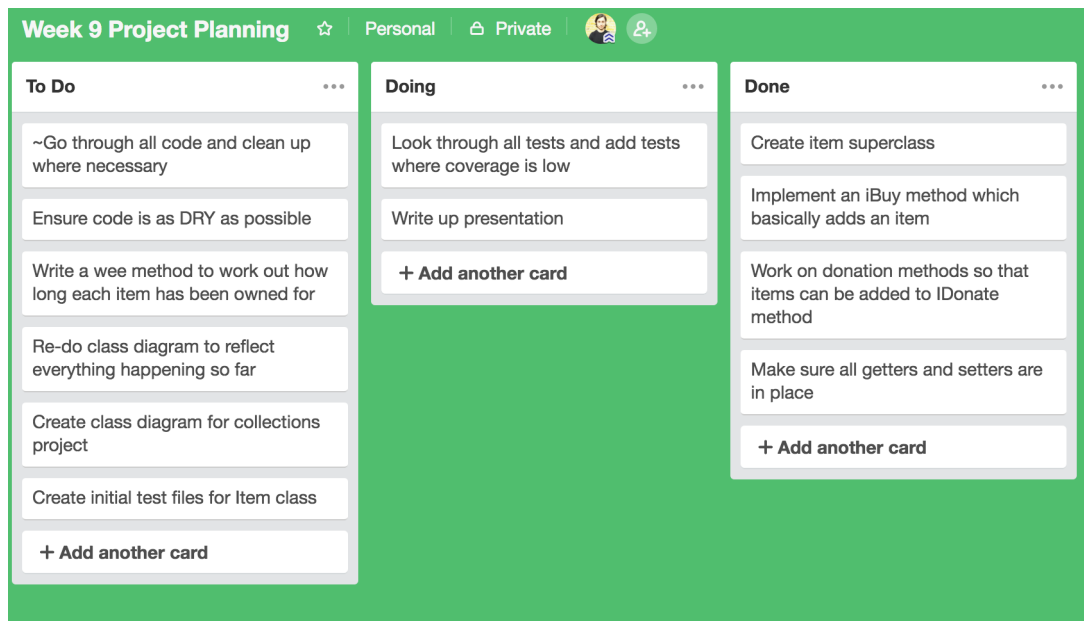
P.11. An example screenshot from a project on which I have worked alone,
and the Github link:



```
1 import Interface.IDonate;
2 import Interface.ISwap;
3
4 import java.lang.reflect.Array;
5 import java.util.ArrayList;
6 import java.util.Collections;
7
8 public class CollectionsManager {
9
10     private ArrayList<Item> forSaleItems;
11     private ArrayList<IDonate> forDonationItems;
12     private double profit;
13     private int itemsDonated;
14
15     public CollectionsManager() {
16         this.forSaleItems = new ArrayList<>();
17         this.forDonationItems = new ArrayList<>();
18         this.profit = 0;
19         this.itemsDonated = 0;
20     }
21
22     public int getItemsDonated() {
23         return this.itemsDonated;
24     }
25
26     public ArrayList getForSaleItems(){
27         return forSaleItems;
28     }
29
30     public int countSaleItems() {
31         return this.forSaleItems.size();
32     }
33
34     public int countDonationItems() {
35         return this.forDonationItems.size();
36     }
37
38     public void addSaleItem(Item item) {
39         forSaleItems.add(item);
40     }
41
42     public double getProfit() {
```

https://github.com/AndyLaugh1/week9_java_collections_project

P.12. Screenshots and photos of the project planning process showing changes and updates



To Do	Doing	Done
~Go through all code and clean up where necessary	Look through all tests and add tests where coverage is low	Create item superclass
Ensure code is as DRY as possible	Write up presentation	Implement an iBuy method which basically adds an item
Write a wee method to work out how long each item has been owned for	+ Add another card	Work on donation methods so that items can be added to IDonate method
Re-do class diagram to reflect everything happening so far		Make sure all getters and setters are in place
Create class diagram for collections project		+ Add another card
Create initial test files for Item class		
+ Add another card		

Week 9 Project Planning



Personal



Private



To Do



~Go through all code and clean up where necessary

Ensure code is as DRY as possible

+ Add another card

Doing



Look through all tests and add tests where coverage is low

Write up presentation

Write a wee method to work out how long each item has been owned for

Re-do class diagram to reflect everything happening so far

+ Add another card

Done



Create class diagram for collections project

Create item superclass

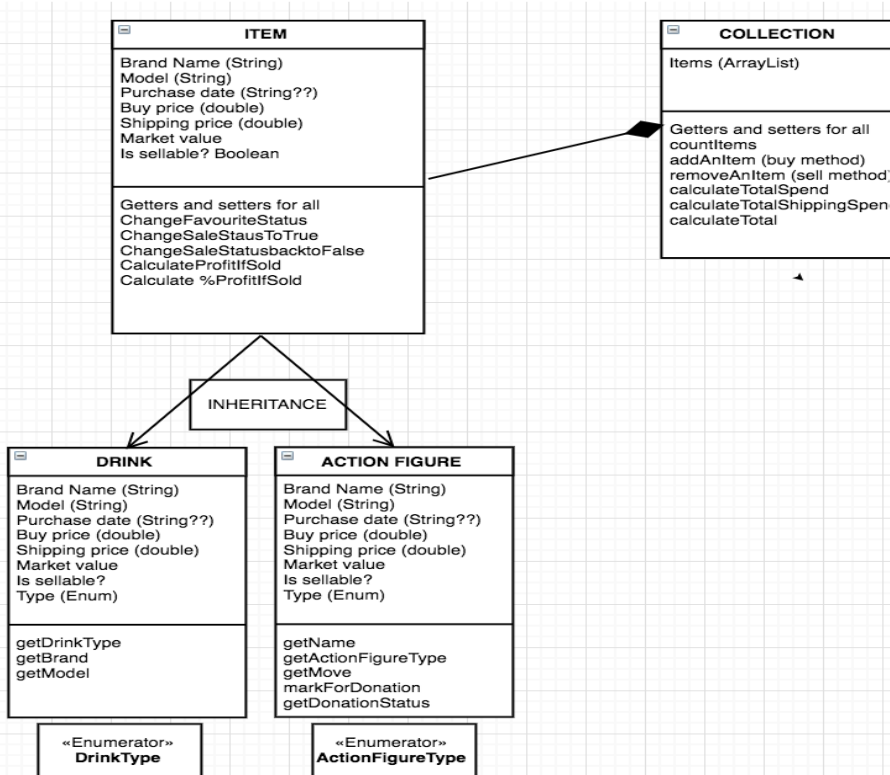
Create initial test files for Item class

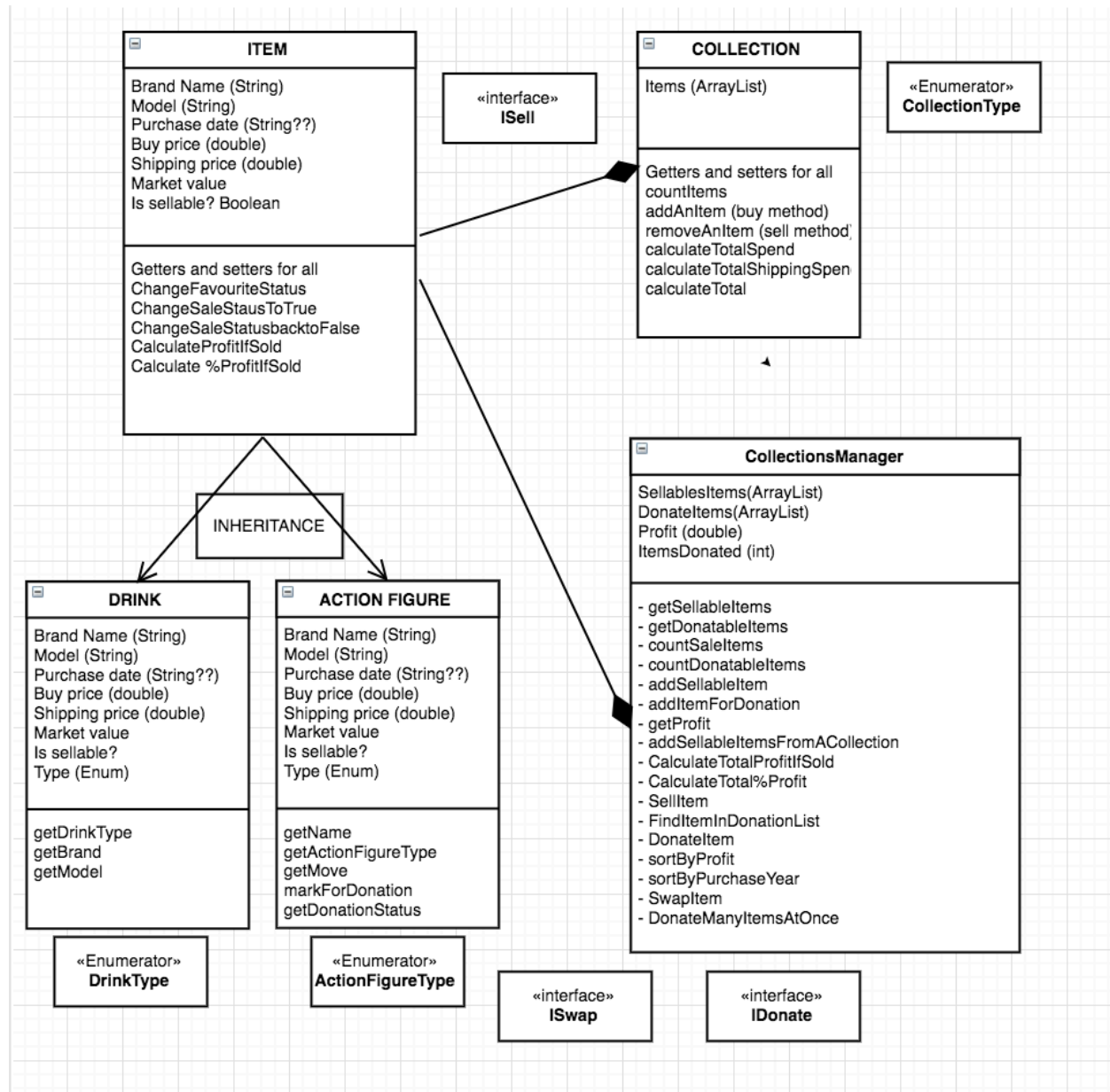
Implement an iBuy method which basically adds an item

Work on donation methods so that items can be added to IDonate method

Make sure all getters and setters are in place

+ Add another card





P.13. Example of user input being saved or used

Screenshot 1: player clicks to add a new game

Current League Table

Name	Played	Games Won	Games Drawn	Games Lost	Goal Difference	Poi
Gryffindor	2	2	0	0	410	6
rieston United	1	1	0	0	170	3
Ravenclaw	2	1	0	1	170	3
Slytherin	2	1	0	1	-160	3
Real Sosobad	1	0	1	0	0	1
Chudley Cannons	1	0	1	0	0	1
Dechmont Dynamos	1	0	0	1	-170	0
Hufflepuff	2	0	0	2	-420	0

Screenshot 2: user enters new game details:

Add the Most Recent Results

Select Home Team:

Select Away Team:

Home Team Score:

Away Team Score:

Add Result to Championship

Screenshot 3: User can see the new game which has been added, under the see all results tab:

Home: Chudley Cannons 200
Away: Real Sosobad 200
The game was a draw
Show Game

Home: Murieston United 310
Away: Dechmont Dynamos 140
Murieston United won
Show Game

Home: Murieston United 200
Away: Slytherin 150
Murieston United won
Show Game

Screenshot 4: Updated league table following the processing of the new result:

Current League Table

Pos	Name	Played	Games Won	Games Drawn	Games Lost	Goal Difference	Points
1	Gryffindor	2	2	0	0	410	6
2	Murleston United	2	2	0	0	220	6
3	Ravenclaw	2	1	0	1	170	3
4	Slytherin	3	1	0	2	-210	3
5	Real Sosobad	1	0	1	0	0	1
6	Chudley Cannons	1	0	1	0	0	1
7	Dechmont Dynamos	1	0	0	1	-170	0
8	Hufflepuff	2	0	0	2	-420	0

P.14: Interaction with database persistence:

Picture 1: Seed file which adds new teams to the database and saves them:

```
1  require('pry')
2  require_relative('../models/game.rb')
3  require_relative('../models/team.rb')
4  require_relative('../models/player.rb')
5
6  Game.delete_all
7  Player.delete_all
8  Team.delete_all
9
10 team1 = Team.new ({
11   "name" => "Gryffindor",
12   "transfer_funds" => 200000
13 })
14 team1.save
15
16 team2 = Team.new ({
17   "name" => "Slytherin",
18   "transfer_funds" => 400000
19 })
20 team2.save
21
22 team3 = Team.new ({
23   "name" => "Hufflepuff",
24   "transfer_funds" => 150000
25 })
26 team3.save
27
28 team4 = Team.new ({
29   "name" => "Ravenclaw",
30   "transfer_funds" => 250000
31 })
32 team4.save
33
```

Screenshot 2: Showing Team class file, initialised, requiring SQL runner and showing the .save function.

```

require_relative('../db/sql_runner.rb')

class Team

  attr_reader :id
  attr_accessor :name, :transfer_funds

  def initialize(options)
    @id = options['id'].to_i
    @name = options['name']
    @transfer_funds = options['transfer_funds'].to_i
  end

  def save()
    sql = "INSERT INTO teams (name, transfer_funds) VALUES ($1, $2) RETURNING *"
    values = [@name, @transfer_funds]
    team_data = SqlRunner.run(sql, values)
    @id = team_data.first()['id'].to_i
  end
end

```

Screenshot 3: The seeds file being run to populate the database with the team data:

```

[➔ sports_app_project git:(master) * ruby db/seeds.rb

/Users/user/codeclan_work/week_05/sports_app_project/db/seeds.rb @ line 182 :

177:   "team_id" => team2.id,
178:   "transfer_value" => 1000
179: })
180: player10.save
181:
=> 182: binding.pry
183: nil

[1] pry(main)>

```

Screenshot 4: Database run showing all of the saved team data:

```

[sports_league=# \q
[➔ sports_app_project git:(master) * psql -d sports_league -f db/sports_league.sql
DROP TABLE
DROP TABLE
DROP TABLE
CREATE TABLE
CREATE TABLE
CREATE TABLE
[➔ sports_app_project git:(master) * psql -d sports_league
psql (10.2)
Type "help" for help.

[sports_league=# SELECT * FROM teams;
 id |      name      | transfer_funds
-----+-----+-----
  1 | Gryffindor     |      200000
  2 | Slytherin      |      400000
  3 | Hufflepuff     |      150000
  4 | Ravenclaw      |      250000
  5 | Chudley Cannons |      500000
  6 | Dechmont Dynamos |       40000
  7 | Murrieston United |        6000
  8 | Real Sosobad   |       60000
(8 rows)

[sports_league=#

```


P. 15: Example of the current output of results and feedback to the user

Screen1 showing all players in list

Click on a player's last name to see more details

Last Name	First Name	Position	Team	V
Potter	Harry	Seeker	Gryffindor	1
Malfoy	Draco	Seeker	Slytherin	7
Gonzalez	Alicia	Goalkeeper	Ravenclaw	5
Laughlin	Kirsty	Chaser	Hufflepuff	4
Ramson	Richard	Chaser	Hufflepuff	1
Marjoribanks	Duncan	Chaser	Ravenclaw	1
Stafford	Joe	Beater	Slytherin	
Laughlin	Andy	Beater	Gryffindor	
Gerrard	Steven	Goalkeeper	Slytherin	

Add a New Superstar

Screenshot 2 shows Harry Potter having been clicked on:

Name: Harry Potter

Position: Seeker

Current Team: Gryffindor

Current Market Value: 100000

Edit Player

Transfer Player

Delete Player

Screen 3 shows the player list after clicking the delete button on Harry Potter; the player has been deleted from the database:

Player List

Click on a player's last name to see more details

Last Name	First Name	Position	Team	Value
Malfoy	Draco	Seeker	Slytherin	70000
Gonzalez	Alicia	Goalkeeper	Ravenclaw	50000
Laughlin	Kirsty	Chaser	Hufflepuff	40000
Ramson	Richard	Chaser	Hufflepuff	10000
Marjoribanks	Duncan	Chaser	Ravenclaw	10000
Stafford	Joe	Beater	Slytherin	9000
Laughlin	Andy	Beater	Gryffindor	8500
Gerrard	Steven	Goalkeeper	Slytherin	1000

Add a New Superstar
