

CA326

User Manual

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1Our WebApplication will currently be run on localhost rather than a server for the purposes of the demonstration. We have designed this project to be scalable so that in the future if we wanted we could turn it into a server and add more functionality.

To run the localhost on your computer, you must first clone the git repository (<https://gitlab.com/computing.dcu.ie/reilll38/2023-ca326-scorecentre>).

Install the necessary libraries as follows;

```
Pip install bs4
```

```
Pip install requests
```

```
Pip install matplotlib
```

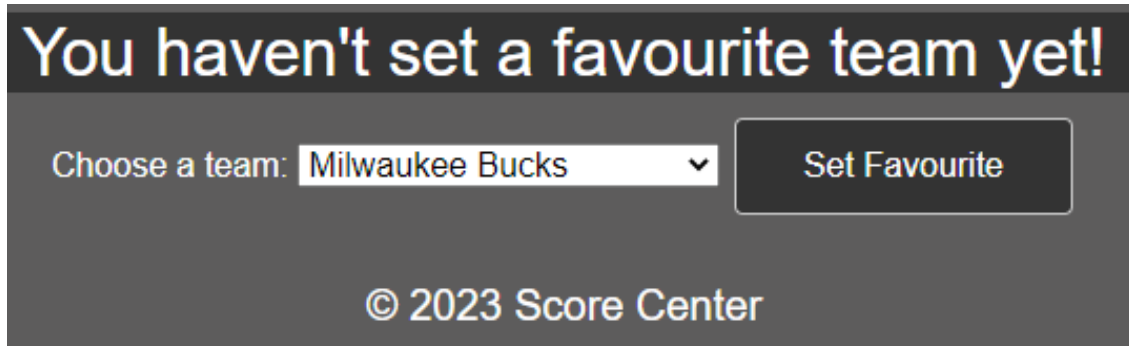
Now on a command line, cd into the “2023-ca326-scorecentre/backend” folder.

Run the command “`python manage.py runserver`”.

Now paste the following into any web browser “<http://127.0.0.1:8000/>”.

2.1 Choose favorite team

Once you open the website you are directed to the choose favorite team page. Here you have the option to select a favorite team from all the teams in the NBA. When you pick your team it is stored in the cookies of your browser. This way if you leave the page and come back the website will still remember your favorite team!



The benefits of choosing a favorite team is that you can then get personalized news and results based on your team.

2.2 Favorite team results and news

After you set your favorite team, you will be redirected to a page with your favorite team's results. Here you can see how your favorite team has been getting on in the NBA.

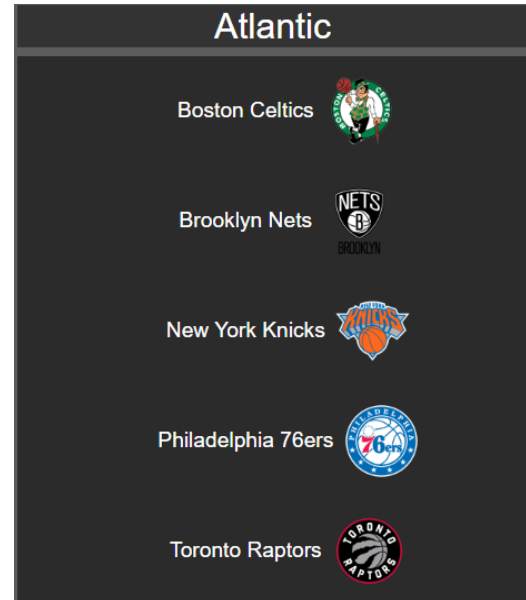
Your Favourite Team: Milwaukee Bucks				
Go to news				
Date	Time	Home vs Away	Score	Status
17 Feb, 2023	00:30	 Chicago Bulls (H)	100	FT
		 Milwaukee Bucks (A)	112	
11 Feb, 2023	03:30	 Los Angeles Clippers (H)	106	FT
		 Milwaukee Bucks (A)	119	
10 Feb, 2023	03:00	 Los Angeles Lakers (H)	106	FT
		 Milwaukee Bucks (A)	115	

At the top of the screen, you can see “Go to news”. Clicking on this link will redirect you to a page which shows news articles linked to your favorite team.

2.3 News

On the news page, you are at first displayed a list of all the teams in the NBA, categorized by their division. All of the teams are clickable. Clicking on one of them will bring you to a new page with current news relating to the team you have picked.

On this new page it displays the headline of the article and a link to read more about it.



2.4 Fixtures

The fixtures page by default shows any games on today's date in chronological order. It also shows the time, and the name and logo of the home and away teams. There is a form at the top of the page in which the user can enter a start and an end date. When the filter button is pressed it displays all matches between these dates.

A screenshot of the 'NBA Fixtures' page. The title 'NBA Fixtures' is in large white letters on a dark background. Below the title, there is a form with two date input fields. The first field is labeled 'Start Date:' and contains the placeholder text 'dd/mm/yyyy' with a calendar icon to its right. The second field is labeled 'End Date:' and also contains 'dd/mm/yyyy' with a calendar icon to its right. To the right of these fields is a button labeled 'Filter'. Below the form, a status bar shows the text 'Showing games for 2023-02-24 to 2023-02-24'.




2.5 Results

The results page displays the following details of all recent matches that have happened in chronological order; The date, time, home and away names and logos, score, status and a link to view the details of a specific individual match.

17 Feb, 2023	03:00	 Phoenix Suns (H)	107	FT	View
		 Los Angeles Clippers (A)	116		

2.6 Standings

The standings page will show what position each team is in the league. The league is split into two conferences. The Western Conference and the Eastern Conference with the top eight teams in each conference going to the playoffs. That is why there are two separate tables.

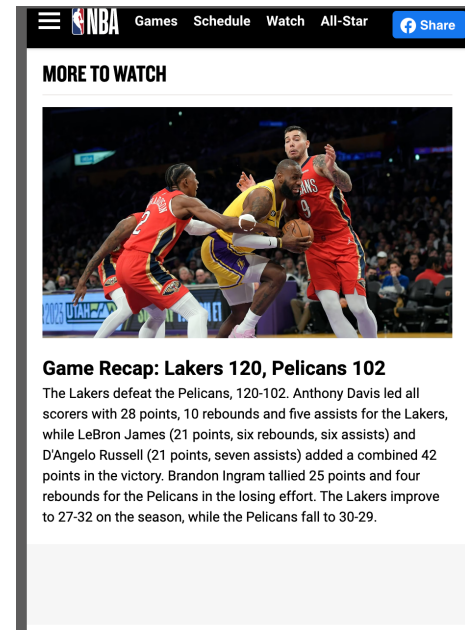
Standings						
Western Conference						
Position	Team	Conference	W	L	Played	W %
1	 Denver Nuggets	Western Conference	41	18	59	0.695
2	 Memphis Grizzlies	Western Conference	35	22	57	0.614
3	 Sacramento Kings	Western Conference	32	25	57	0.561

Eastern Conference						
Position	Team	Conference	W	L	Played	W %
1	 Boston Celtics	Eastern Conference	42	17	59	0.712
2	 Milwaukee Bucks	Eastern Conference	41	17	58	0.707
3	 Philadelphia 76ers	Eastern Conference	38	19	57	0.667

2.7 Individual Match

You can access this page by clicking “view” on any match on the results page. When clicked in it will show the details of the specific match you have clicked on. Here it shows the amount of points each team got in each quarter, and the total scores. It also shows the date and results of the five most recent the two teams have played against each other.

There is also a link to the match recap of the individual match, and an option to share this recap to facebook.



2.8 Compare Players

In this page you can compare players based on their season averages for the most recent season. You can search a player's name in the box provided. You can also click add player to add another player to compare. You can add as many players as you like. When you press the filter button, the players will be displayed with all of their stats. You can also click on any of the attributes and it will sort the results based on this attribute.

Player Name	Games Played	Points	Minutes	FGM	FGA	FG3M	FG3A	FTM	FTA	REB	AST	STL	BLK	Turnover
Kevin Durant	39	29.69	35:56	10.51	18.85	1.82	4.85	6.85	7.33	6.67	5.31	0.79	1.49	3.46
Trae Young	52	26.73	35:25	8.42	19.67	2.15	6.67	7.73	8.73	2.94	10.25	1.04	0.15	4.13
Stephen Curry	38	29.45	34:34	9.79	19.76	4.87	11.39	5.0	5.42	6.34	6.42	0.97	0.39	3.21

2.9 Teams Chart

On this page you can compare teams wins. Firstly a textbox is provided, for where the season is required. You can put a team's name into the second box provided. Additionally, you can add extra teams with the add team button. When you press display, it will create a graph of all of the teams present . The graph will show how many wins the teams have for that given season.

Season: 2021-2022

Team 1: New York Knicks

Team 2: Atlanta Hawks

Team 3: Utah Jazz

Display

Add Team

This is the result of the above.

