



Multimédia e Novos Serviços

BestSports

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Mestrado Integrado em Engenharia Informática e Computação

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Application Goal

BestSports is a website for viewing news regarding the latest football and basketball highlights. With it, we intend to give our users an easy access and easy to use interface where they can look up news, recent scores and highlights from european football and american basketball, offering them a way to have all information on one place, without having to crawl through various websites throughout the internet.

Functional specification

The website is divided in three different main sections: the homepage, the basketball section and the football section. Within the homepage, the users can find the latest football scores on the right and the latest basketball scores on the left. In the middle you can find the main highlights from each sport. In the navbar, there is a button titled 'Play/Stop' that allows the user to play a sound related to the sport that they are currently browsing. In the basketball page the user will hear an ambient sound of players and fans inside an arena and on the football page they will hear a sound of players and fans inside a stadium. Next to this button there is a small gif, which will change depending on the section you are browsing. Whenever a user clicks the Play/Stop button, an animation for the gif will be triggered. There is also a search box in the navbar, where a keyword can be searched and the results will be any news that reference that keyword in either the title or the body of the article. Lastly, there is also a small animation in the BestSports button whenever a page is loaded.

In the basketball section you can find more recent scores and four cards of important news. These news are relative to the NBA playoffs and they were chosen by the group because they were considered to be the most important in recent weeks. Each card has a link that redirects to a page containing the full details of the news, which includes a small written article, a video, and images. In the bottom of the article the user can find two buttons: one with a Facebook icon, and one with a Twitter icon. These allow the user to share the whole page on the social media of their choosing.

The football section is identical to the basketball one, except for the fact that the news that appear there are related to the most recent and important european football highlights.

The videos that are used in the articles were downloaded from the Internet, edited by our group and uploaded to YouTube. We decided to upload them, because using those videos as internal assets would force our project to occupy a lot of storage, which is unnecessary.

Mockups

Mockups were developed in the early stages of the development and delivered in a previous delivery, so we don't think that it is necessary to explain them again. While implementing the features in our application, we detected that some mockups weren't completely correct, so the following changes were made between the initial mockups and the final application :

- We found that having an account was unnecessary, so we eliminated login, register and likes and dislikes of a news article.
- The user cannot search news by tags, but he can search by keywords.
- In the HomePage, we decided that it was only important to show the recent results of basketball and football games and links to those sports sections.

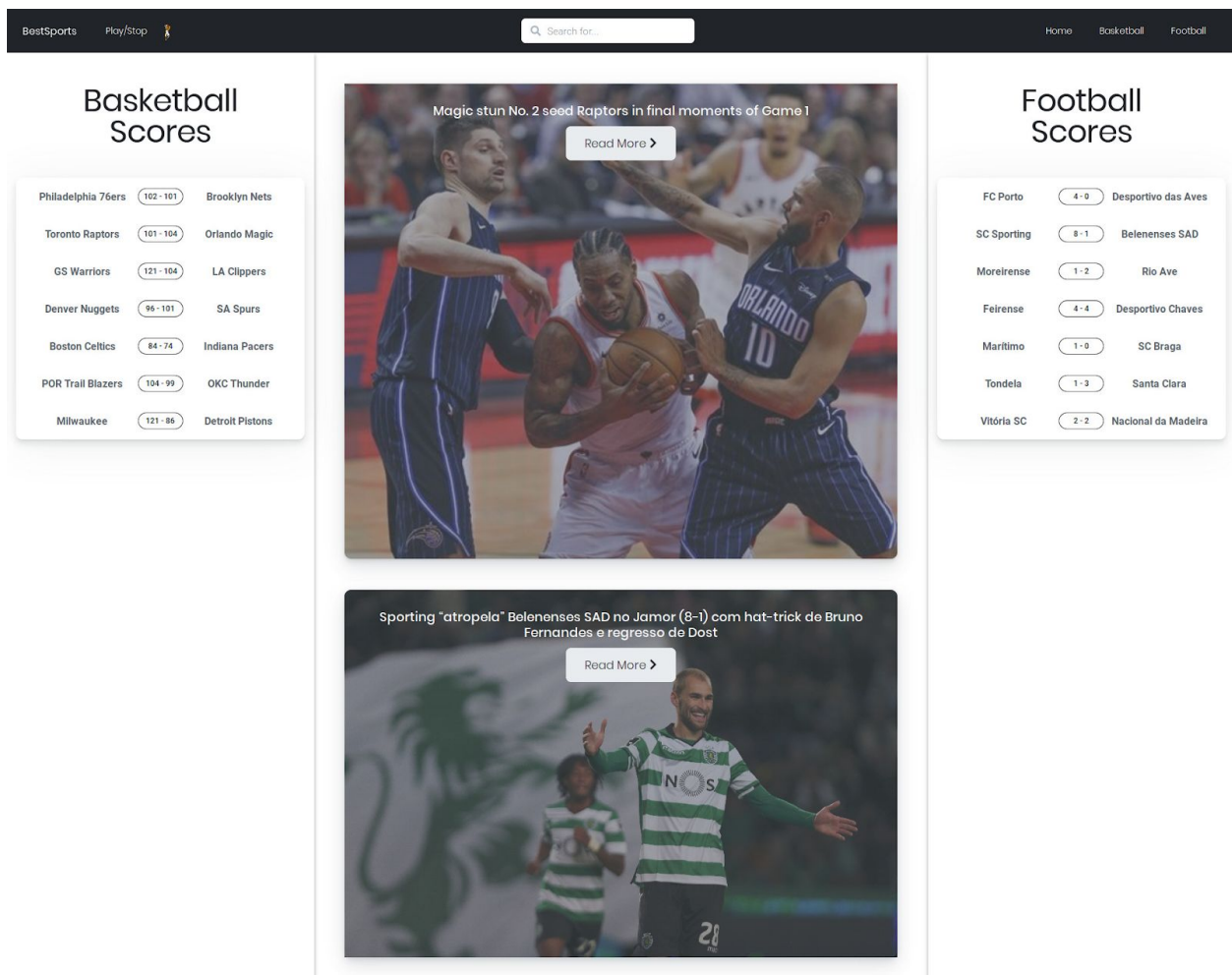
How to Use the Application

Open a terminal in the bestsports directory and write the following commands:

- npm install
- npm start

This assumes that you have the Node Package Manager installed in your computer.

HomePage



Within the HomePage a user can choose one of the highlighted news (shown in the screenshot above in the middle). He can also use the navbar to browse between sections, play or stop sound and use the search box.

Basketball News Page


BestSportsPlay/Stop

Search for


HomeBasketballFootball

Basketball Scores


Houston Rockets	112 - 108	GS Warriors
Toronto Raptors	125 - 89	Philadelphia 76ers
Denver Nuggets	124 - 98	POR Trail Blazers
Milwaukee Bucks	116 - 91	Boston Celtics
GS Warriors	104 - 99	Houston Rockets
Philadelphia 76ers	112 - 101	Toronto Raptors
POR Trail Blazers	119 - 108	Denver Nuggets
Houston Rockets	113 - 118	GS Warriors
Denver Nuggets	96 - 100	POR Trail Blazers
Toronto Raptors	92 - 90	Philadelphia 76ers




[Magic stun No. 2 seed Raptors in final moments of Game 1](#)



[Celtics on the verge of getting eliminated by the Bucks](#)



[Brooklyn Nets escape with Game 1 win against 76ers](#)



[Houston Rockets beat Golden State behind Harden's 38 points](#)

In this page a user can choose one of the four news available, which will redirect him to a specific news page.

Football News Page


BestSportsPlay/Stop

Search for...


HomeBasketballFootball

Football Scores


Vitória SC	5 - 1	Belenenses
Chaves	1 - 2	Setúbal
Nacional	0 - 4	FC Porto
Rio Ave	2 - 3	SL Benfica
Tottenham	2 - 2	Everton
Man United	0 - 2	Cardiff City
Watford	1 - 4	West Ham
Southampton	1 - 1	Huddersfield
Leicester City	0 - 0	Chelsea
Fulham	0 - 4	Newcastle
SPAL	1 - 2	Napoli
Roma	2 - 0	Juventus
Bologna	4 - 1	Parma
Inter Milan	2 - 0	Chievo




Juventus beat Fiorentina 2-1 and are the Serie A champions



Manchester City are Premier League Champions!



Liverpool shockingly eliminate Barcelona



Ajax victim of last minute goal heartbreaker

This page is similar to the basketball page. All paths the user are the same, except that they lead to their respective articles.

News Page (example)

BestSports

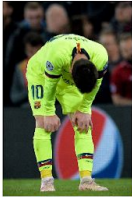


Play/Stop

Search for...

Home

Basketball

Football





Liverpool stun Barcelona to overcome deficit and reach UCL final

Liverpool produced one of the greatest comebacks in Champions League history to beat Barcelona 4-0 on Tuesday, overturning a three-goal first-leg deficit and advancing to their second successive final with a 4-3 aggregate victory. Two goals each from stand-in forward Divock Origi and halftime substitute Georginio Wijnaldum left Lionel Messi and Barcelona utterly shell-shocked by a Liverpool performance full of passion, belief and determination. Jurgen Klopp's side will play the winner of Wednesday's other semifinal between Ajax Amsterdam and Tottenham Hotspur, with the Dutch side leading 1-0 from the first leg in London.

"Unbelievable. I don't think many people gave us a chance," Liverpool captain Jordan Henderson said. "Before the game we knew that it would be difficult but it was still possible, of course. It's amazing. We knew that at Anfield we could do something special." Liverpool become only the third team in the history of the European Cup or Champions League to come from three goals down after the first leg of a semifinal and progress after Panathinaikos in 1970-71 and Barcelona themselves in 1985-86. For Barca, who went out on away goals to AS Roma in the quarterfinals last year after winning the first leg 4-1, it was a bitter night that will raise many questions for coach Ernesto Valverde.

Liverpool grabbed an extraordinary fourth goal with a quickly taken corner from Alexander-Arnold, catching the Barca defence asleep with a low ball that was turned in at the near post by Origi. That sent Anfield wild, but then Klopp's side suddenly found themselves needing to switch mindset and defend a lead as Barca slipped, belatedly, into their trademark possession game. Yet with Virgil Van Dijk and Joel Matip outstanding in the centre of defence and Brazilian Fabinho making some crucial interventions in midfield, Liverpool held on for one of their most famous wins. Klopp's side, who lost to Real Madrid in last year's final in Kiev, remain in with a chance of a double triumph as they head into Sunday's final round of Premier League games trailing leaders Manchester City by just a point.



This is an example of a news article. On the top left there is a video and on the bottom left there are images, which portray the event described. On the right there is a written article and on the bottom there the buttons that allow the user to share news on social media.

Search Example

BestSports

Play/Stop

Search for...




cristiano

Cristiano Ronaldo claims first league title since moving to Italy

Home

Basketball

Football





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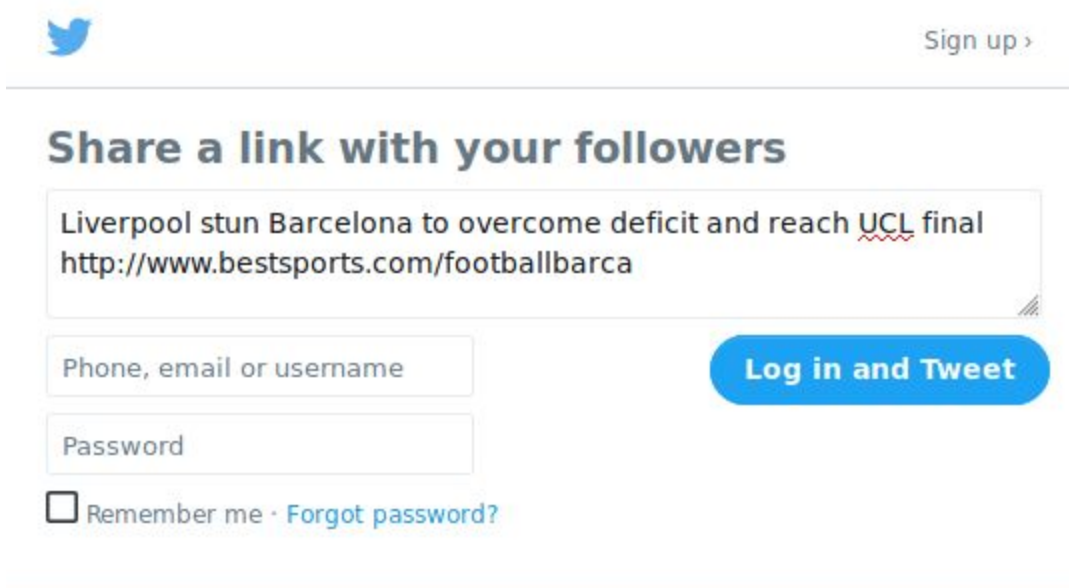
"Unbelievable. I don't think many people gave us a chance," Liverpool captain Jordan Henderson said. "Before the game we knew that it would be difficult but it was still possible, of course. It's amazing. We knew that at Anfield we could do something special." Liverpool become only the third team in the history of the European Cup or Champions League to come from three goals down after the first leg of a semifinal and progress after Panathinaikos in 1970-71 and Barcelona themselves in 1985-86. For Barca, who went out on away goals to AS Roma in the quarterfinals last year after winning the first leg 4-1, it was a bitter night that will raise many questions for coach Ernesto Valverde.

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Pictured on the top of the screenshot is the search bar. In this case the user searched for 'cristiano' and the result was an article whose title involves Cristiano Ronaldo. This is the only result because no other article mentions the keyword 'cristiano' in the title nor the body.

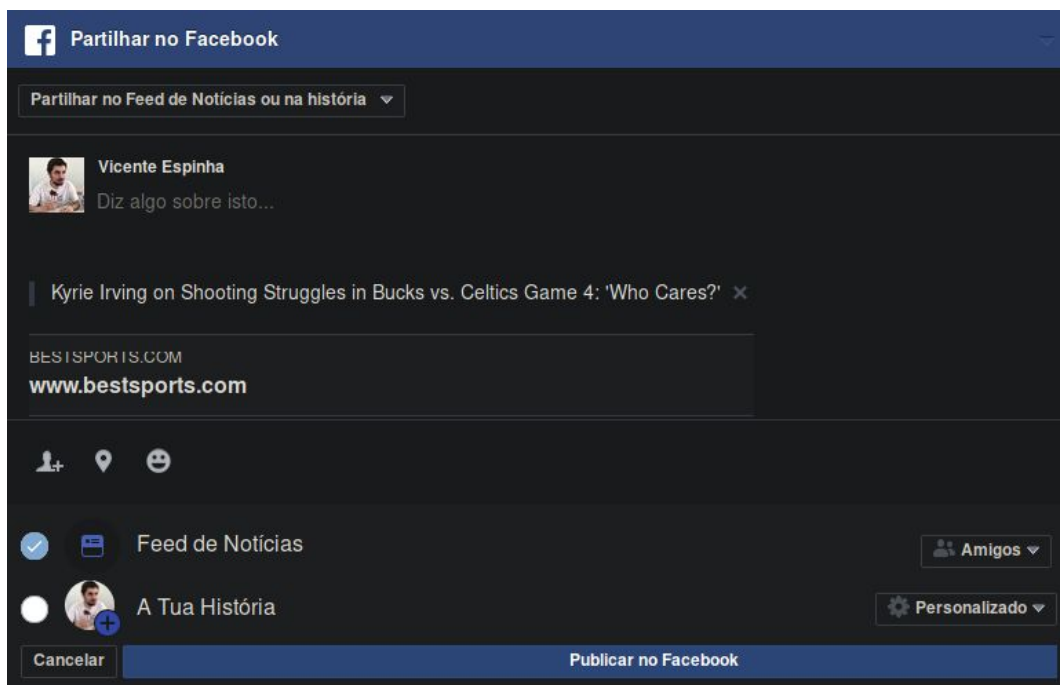
Twitter



The image shows a Twitter share dialog. At the top left is the Twitter bird logo, and at the top right is a "Sign up >" link. The main heading is "Share a link with your followers". Below this is a text box containing the text "Liverpool stun Barcelona to overcome deficit and reach UCL final" followed by the URL "http://www.bestsports.com/footballbarca". Below the text box are two input fields: "Phone, email or username" and "Password". To the right of these fields is a blue button labeled "Log in and Tweet". Below the input fields is a checkbox labeled "Remember me" followed by a link "Forgot password?".

Pictured here is the result of clicking on the Twitter button in a news page. The user is prompted with this box, where he can write what he wants in the box and share it with friends.

Facebook



The image shows a Facebook share dialog. At the top is a blue header with the Facebook logo and the text "Partilhar no Facebook". Below the header is a dropdown menu labeled "Partilhar no Feed de Notícias ou na história". The main content area shows a profile picture of Vicente Espinha and the text "Diz algo sobre isto...". Below this is a link preview for "Kyrie Irving on Shooting Struggles in Bucks vs. Celtics Game 4: 'Who Cares?'" with a close button. Below the link preview is a text box containing "BESTSPORTS.COM" and "www.bestsports.com". Below the text box are three icons: a person, a location pin, and a smiley face. At the bottom are two tabs: "Feed de Notícias" (selected) and "A Tua História". To the right of the tabs are two buttons: "Amigos" and "Personalizado". At the very bottom are two buttons: "Cancelar" and "Publicar no Facebook".

Pictured here is the same as the previous screenshot, except it allows the user to share news on Facebook.

Developing the Project

Overall, the development of the project went smoothly, without many problems being encountered along the way. The group was unfamiliar with the React technology, but throughout the project we were able to learn and adapt to the needs of the class, and we consider that using React to develop was a smart choice.

One of the problems that we encountered was that when we tried to upload an edited video of the Liverpool vs Barcelona game, we got copyright striked on YouTube. We tried editing the video more, but it didn't work so we had to use a different video.

Choosing an adequate animation for our website was also tricky. At first we didn't have an idea of what we should use, but after some meetings we decided to use a small animation in the navbar.

Conclusion

In conclusion, the development of the project went smoothly and we would have implemented a way of connecting to an API to get the news and highlights automatically if we had a little more free time, instead of incorporating them in the webapp manually.

References/Tools

Balsamiq - Mockups (<https://balsamiq.com>)

React - Framework Front-End (<https://reactjs.org>)

Audacity - Audio Editing (<https://www.audacityteam.org>)

Kapwing - Video Editing (<https://www.kapwing.com>)

Our assets (videos, images and audio) were obtained from various sources. Here are some examples :

Freesound - Collaborative repository of CC licensed audio samples (<https://freesound.org>)

Youtube - Source of videos used in the application (<https://www.youtube.com>)

Goal - Sports news' website (<https://www.goal.com/en>)