

College Football Stats

CS510 Final Presentation

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Football Stats Website

- Why?
 - No sports going on right now :(
 - I'm a huge college football fan (Go Beavs!)
- API used: api.collegefootballdata.com

Technologies Used

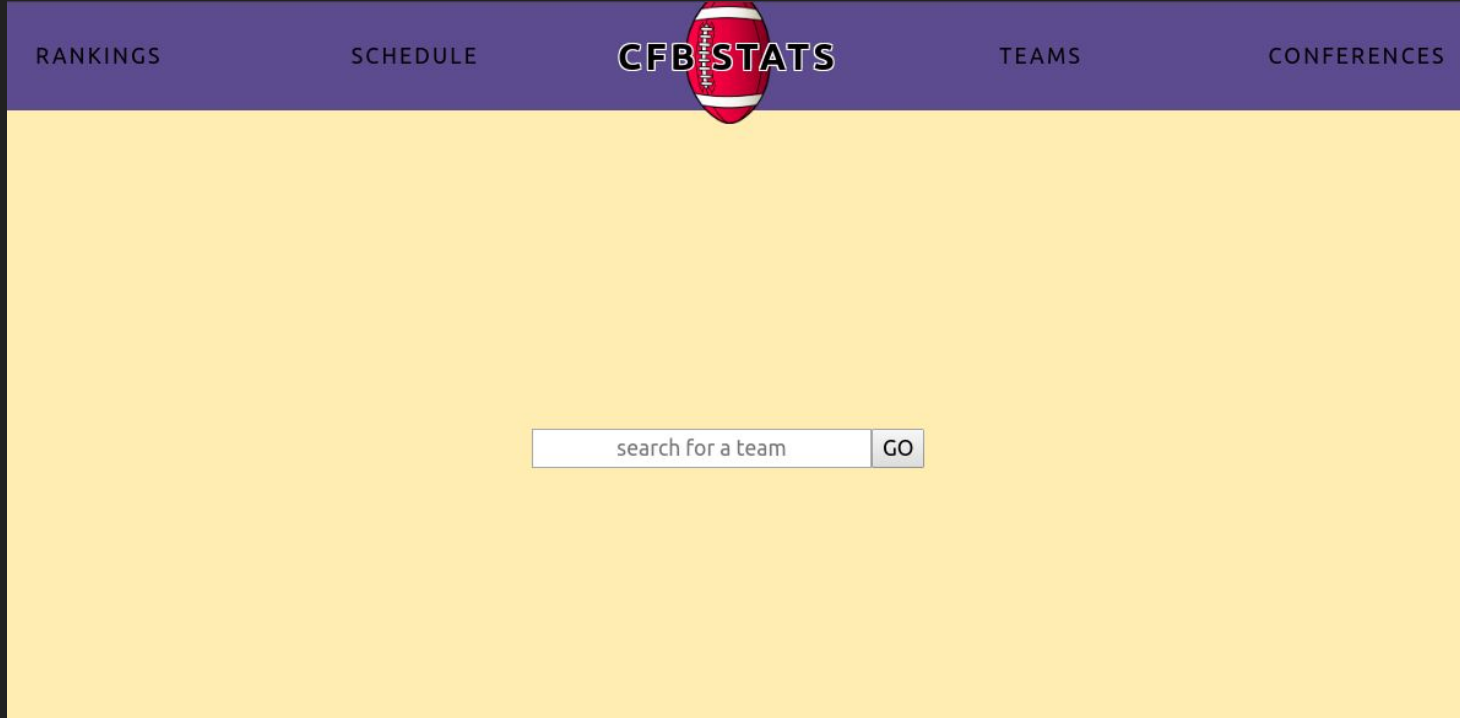
- Front-end only
- This is a pure React app
- Used some features from Bootstrap
- Used primarily CSS-Flex for layout

API Documentation

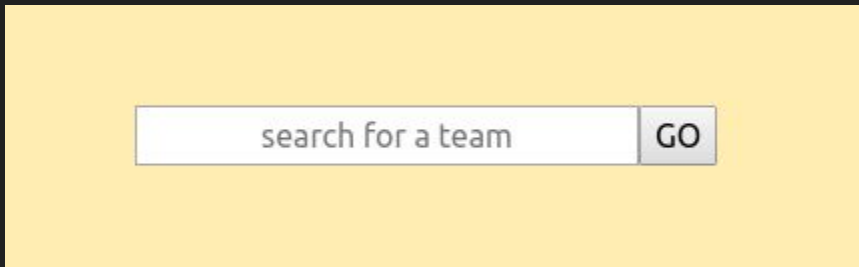
- This API provides a huge amount of present and historical data
- Very well documented API using Swagger:

games Games scores and statistics	
GET	/games Get game information
GET	/records Get records by year
GET	/games/players Get player statistics by game
GET	/games/teams Get team statistics by game
GET	/game/box/advanced Get advanced box score

Features Implemented



Search Bar



A search bar interface consisting of a light yellow rectangular container. Inside the container is a white text input field with the placeholder text "search for a team". To the right of the input field is a grey button with the text "GO" in white capital letters.

- Navigates to corresponding team page
- Searches for exact matches only
- Compares with JSON object
- Biggest problem: didn't realize until the last minute that it didn't work with wrong capitalization

Rankings

- Toggle between different polls
- Biggest challenge: passing up state from child to parent component

AP		Coaches	
1	LSU	47	1535
2	Ohio St.	12	1488
3	Clemson	3	1441
4	Oklahoma	0	1364
5	Georgia	0	1241
6	Florida	0	1167
7	Oregon	0	1141
8	Baylor	0	1039
9	Auburn	0	1011
9	Alabama	0	1011

Schedule

- Shows all D-1 games in a given week of the season
- Search for a team to see their next game
- Biggest problem: scrolling to and highlighting the game corresponding with the searched team

Upcoming games:

enter team name

Find

Nevada @ UC Davis	08/29/20 at Mackay Stadium
New Mexico @ Idaho State	08/29/20 at University Stadium
Arizona @ Hawai'i	08/29/20 at Arizona Stadium

Schedule

Example of highlighted scheduled item (search query = "Oregon")

California @ TCU	09/05/20 at California Memorial Stadium
Stanford @ William & Mary	09/05/20 at Stanford Stadium
Oregon @ North Dakota State	09/05/20 at Autzen Stadium
Virginia @ Georgia	09/07/20 at Mercedes-Benz Stadium

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Teams

- This is the most interesting part of the site
- Squares corresponding with each team with their color schemes

Highlight: (none) Sort by: A-Z

AFA	AKR	ALA	APP	ARIZ	ASU	ARK	ARST	ARMY	AUB	BALL	BAY
BSU	BC	BGSU	BUFF	BYU	CAL	CMU	CHAR	CIN	CLEM	CCU	COLO
CSU	CONN	DUKE	ECU	EMU	FLA	FAU	FIU	FSU	FRES	UGA	GASO

Teams

- Can highlight conferences
- Can sort teams
- Hardest problem: getting highlights to work

Highlight: Pac-12 Sort by: Z-A

WYO	WYU	WSU	WMU	WKU	WIS	WASH	WAKE	VT	VAN	UVA	UTSA
UTEP	UTAH	USU	USM	USF	USC	USA	UNT	UNM	UNLV	UNC	UIC
ULM	ILL	UK	UGA	UCLA	UCF	UAB	TXST	TULN	TCU	TROY	TOL
TUSA	TEX	TENN	TEM	TCU	TA&M	SYR	STAN	SMU	SJSU	SOSU	SC

Team Details

- Individual page for each team
- Dynamic routing
- Page changes color scheme based on which team is active
- Biggest challenge: getting two API calls to work without getting into infinite loop territory with `useEffect()`



Conferences Page

- Not quite ready for prime time, needs some cleaning up before Friday night
- Intent: show conference standings and rankings
- Biggest challenge: Parsing the JSON into this relatively basic object

American Athletic	ACC
Cincinnati	Boston College
Connecticut	Clemson
East Carolina	Duke
Houston	Florida State
Memphis	Georgia Tech
Navy	Louisville
SMU	Miami
South Florida	NC State
Temple	North Carolina
Tulane	Pittsburgh
Tulsa	Syracuse
UCF	Virginia
	Virginia Tech
	Wake Forest

Accessibility

- Used descriptive HTML elements like `<nav>`, `<section>`, etc.
- Used semantic text like "Search"
- Used ARIA labels for things like "Main Logo Link to Home Page"
- I haven't used React Axe and the like yet, but I plan on before submitting code