# Lab 3 - Team-42

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### Features (user stories) to Implement in Next Sprint:

- 1. NFL Combine from 1987 to present: (combine.csv)
  - a. Feature 1: as a user I want to see the combine performance of player p
  - b. Feature 2: as a user I want to see the combine performance for year y
  - c. Feature 3: as a user I want to see the top *n* players for combine measure *c* for year *y*
  - d. <u>Feature 4</u>: as a user I want to see the combine performance for players from college *x*
- 2. NFL League Rushing Statistics: (rusher.csv , players.csv, draft.csv)
  - a. Feature 5: as a user I want to see the total rushing performance of player p
  - b. Feature 6: as a user I want to see the total rushing yards for each team x
  - c. Feature 7: as a user I want to see the top *n* players for rushing for team *x*
  - d. Feature 8: as a user I want to see the top rusher of all time t
- 3. NFL League Receiver Statistics: (receiver.csv, players.csv, draft.csv)
  - a. Feature 9: as a user I want to see Player Total receiving yards
  - b. Feature 10: as a user I want to see total receiving yards for each team
  - c. Feature 11: as a user I want to see Player with most receiving vards
  - d. Feature 12: as a user I want to see teams with most receiving yards
- 4. NFL League Passer Statistics: (passer.csv, players.csv, draft.csv, plays.csv, games.csv)
  - a. Feature 13: as a user, I want to see the passing statistics of player p
  - b. Feature 14: as a user, I want to see the passing statistics for year y
  - c. <u>Feature 15</u>: as a user, I want to see the top *n* players for passing length *L* for vear *v*
  - d. <u>Feature 16</u>: as a user, I want to see the top *n* players for passing outcome (complete/incomplete/interception) for year *y*

### **Test Cases**

### 1. Feature 1 Test Cases:

- a. Test Case 1: as a user in the combine performance page, I search for player *p* by inputting a player name into the search box
  - Correct Output: the site displays a table with all combine records for player p
    - i. Pick 2 players to test, players TBD (haven't looked at the data yet
- b. Test Case 2: test that combine performance displayed matches expected display Correct Output: page displayed on user selection matches specified page display
  - i. Django has automated test case functionality that enables "pretend" client interaction with the site and a test harness that can verify if the content of an "expected" webpage matches the context you specify
    - 1. Ex. expected content on page for player *p* matches explicit content passed to test case

### 2. Feature 2 Test Cases:

- a. Test Case 1: as a user in the combine performance page, I search for combine performance for year *y* but inputting a year in the combine year search box Correct Output: the site displays a table with all combine records for year *y* 
  - i. Test on 2019 and 2018 (latest 2 years in the dataset)
- b. Test Case 2: test that the combine performance display page matches expected display exactly
  - Correct Output: page displayed on user selection matches specified page display

### 3. Feature 3 Test Cases:

- a. Test Case 1: as a user in the combine performance page, I search for the top 10 records for combine measure c for combine year y

  Correct Output: the site displays a table with the correct records the user selected (e.g. the data values match what's in the data structure)
- b. Test Case 2: test that the combine performance display page matches expected display exactly
  - Correct Output: page displayed on user selection matches specified page display

### 4. Feature 4 Test Cases:

- a. Test Case 1: as a user in the combine performance page, I search college *x* and records for the players who attended that college and performed at the combine are displayed
  - <u>Correct Output:</u> the site displays a table with the correct records for the college the user selected (e.g. the data values displayed match what's in the data structure)
- b. Test Case 2: test that the combine performance display page matches expected display exactly
  - Correct Output: page displayed on user selection matches specified page display

### 5. Feature 5 Test Cases:

a. Test Case 1: as a user I want to see the total rushing performance of player p
 <u>Correct Output</u>: site display the total number of rushing yards for entered player p.

#### 6. Feature 6 Test Cases:

a. Test Case 1: as a user I want to see the total rushing yards for each team *x*<u>Correct Output</u>: site display the total rushing yards for team *x* 

### 7. Feature 7 Test Cases:

a. Test Case 1: as a user I want to see the top *n* players for rushing for team *x*<u>Correct Output:</u> site displays the top n rushers of that team for team *x* 

### 8. Feature 8 Test Cases:

a. Test Case 1: as a user I want to see the top rusher of all time *t*<u>Correct Output:</u> site displays the top rusher for all years in dataset

### 9. Feature 9 Test Cases:

a. Test Case 1: as a user in the receiving page i want to enter a player name and view their total receiving yards.

<u>Correct Output:</u> site displays total number of receiving yards for entered players.

### 10. Feature 10 Test Cases:

a. Test Case 1: as a user in the receiving page i want to enter a team name and view total receiving yards for each team

Correct Output: site displays total number of receiving yards for each team

### 11. Feature 11 Test Cases:

a. Test Case 1: as a user in the receiving page I want a list of the top 10 players with the most receiving yards

<u>Correct Output:</u> sites displays a list of top ten players with the most receiving yards

#### 12. Feature 12 Test Cases:

 Test Case 1: as a user in the receiving page I want to see top 5 teams with the most receiving yards

Correct Output: site displays a list of the top 5 teams with receiving yards

### 13. Feature 13 Test Cases:

a. Test Case 1: as a user in the passing statistics page, I search for player p by inputting a player name into the search box

Correct Output: the site displays a table with the passing statistics for player p

#### 14. Feature 14 Test Cases:

a. Test Case 1: as a user in the passing statistics page, I search for passing statistics for year *y* by inputting a year in the passing year search box Correct Output: the site displays a table with the passing statistics for year *y* 

### 15. Feature 15 Test Cases:

a. Test Case 1: as a user in the passing statistics page, I can select to search top players, type in the number of players to display, and enter a passing length in a search box

<u>Correct Output</u>: the site displays a table with the passing statistics for the selected number of top players with the selected passing length and year

### 16. Feature 16 Test Cases:

a. Test Case 1: as a user in the passing statistics page, I can select to search top players, type in the number of players to display, and enter a passing outcome (complete/incomplete/interception) and a year in a search box Correct Output: the site displays a table with the passing statistics for the top selected number of players with the selected passing outcome and year

### **TODO List**

### Done list of last sprint (week of 10/5 - 10/11)

- 1. Set up Django web application architecture
  - a. Top-level executable: nfl site (name of our project)
  - b. First application (Django terminology for module that renders to a web page): response
    - i. Ford St. John designed application welcome page and client-server response functionality
    - ii. Robert Arenas designed application welcome page and client-server response functionality
    - iii. Eduardo Rocha designed application welcome page and client-server response functionality
    - iv. Kyle Dean designed application welcome page and client-server response functionality
  - c. Each of us practiced step b. to gain familiarity with the Django framework. We each produced a test branch in git, and randomly selected one of the branches to merge into our main project
    - i. Happened to select Ford St. John's welcome page and client-server interaction example

## ToDo task list for next sprint:

- 1. Backend program to convert combine csv to combine class data structure
- 2. Backend program to convert rushers csv to rusher class data structure
- 3. Backend program to convert passers csv to passers data structure
- 4. Backend program to convert receivers csv to receivers data structure
- 5. Create combine application to render combine web app views
  - a. Link backend data structure to front-end views
  - b. Display userforms to select values
  - c. Render data table of data based on selections
- 6. Create rushers application to render rushers web app views
  - a. Link backend data structure to front-end views
  - b. Display userforms to select values
  - c. Render data table of data based on selections
- 7. Create passers application to render passers web app views
  - a. Link backend data structure to front-end views
  - b. Display userforms to select values
  - c. Render data table of data based on selections
- 8. Create receivers application to render receivers web app views
  - a. Link backend data structure to front-end views
  - b. Display userforms to select values
  - c. Render data table of data based on selections