Assignment 2 (GAA NFL)

Web Framework Development (2023/24)

Thomas D. Devine

April 2024

When submitting your assignment electronically as a ZIP file, this document MUST be placed in a prominent place within the ZIP file. If this document is absent you will not get a grade for this assessment.

This list MUST be submitted with an *Assignment Cover Sheet*. You must only tick the boxes below if that functionality has been completed in your assignment submission.

The Chrome web browser will be used to view your work.

**Part 1 - REST API Database Server**

**JSON Data Routes [42 marks] [13%]**

A REST API server using Express receives these route requests, retrieves the data using SQL queries from the database and returns the data as the JSON data shown in demo video.

GET teams [8] -

GET players [8] -

GET results [8] -

GET results by round [8] -

This data should be retrieved using Angular Services [10]

**Part 2 – Angular Website**

**Navigation Bar [15 marks] [5%]**

Show consistent navigation bar using routing across all pages [10] -

Bootstrap used [5] -

Must be implemented using routes.

**Teams [28 marks] [8%]**

This page content is an Angular component

Shows team data in table ordered by team name [8] -

All data fetched using RESTAPI request [5] -

Showing Wikipedia page for team [5] -

Use an interface for *teams* data in service request and teams array [5]-

Bootstrap used [5] -

**Players [25 marks] [7%]**

This page content is an Angular component

Shows all players ordered by team and name [8]

Dropdown teams retrieved from database [5]

Player filtering by team works [12]

**Results [47 marks] [14%]**

This page content is an Angular component

Show results for Round 1 by default [8]

Show correct Round label between navigation buttons [4]

Navigation to next and previous rounds works [15]

Round label & button captions are correct [8]

Result filtering by team name works [12]

**Tables [35 marks] [10%]**

Shows correct Division 1 teams [5]

Shows correct Pd value [5]

Shows correct W, D, L values [5]

Shows correct DIFF [10]

Shows correct Pts [5]

Shows teams in correct ranking position [5]

Your solution must retrieve data from results and/or teams table and use JavaScript code to calculate and construct the table. Do not use a SQL command to calculate table content.

**Stats [60 marks] [18%]**

Use either a d3 or SVG only solution. What solution did you use? Only tick on box

SVG [grade = 60 \* 0.75]

d3 [grade = 60 \* 1]

***Team Match Scores [30]***

☐ Correct chart title with team name [2]

☐ Correct Rd & team labels at top of chart [6]

☐ Correct team scores [6]

☐ Correct columns for each match scaled to score total [16]

***Team Form [30]***

☐ Correct chart title with team name [1]

☐ Correct Rd & team labels at top of chart [4]

☐ Correct scatter plot dot positions [12]

☐ Correct dot colour based on match outcome [5]

☐ y axes shown scaled from 0 to 14 pts [8]

**Login [27 marks] [8%]**

Showing correct login form [4]

Login credentials are validated [15]

On login navigation bar updates [5]

On logout navigation bar updates [3]

**Admin [37 marks] [11%]**

Show results for Round 1 by default [4]

Allow filtering of results by round [5]

Result goals & points fields are editable [3]

Result update works [15]

Result delete works [10]

**Misc [20 marks] [6%]**

There should be no warnings or errors visible within the console tab [20]

All marks above are subject to a code review of your solution. A code review will include checks for the following:

* readability
* duplication of code
* variable naming
* code performance
* authenticity
* hard coding
* etc.

***A note on plagiarism and cheating.***

*If any of the code submitted by you is deemed copied from or by someone else it will be formally reported to the Head of School of Science and a Disciplinary Committee will be convened to deal with this issue. You do not want that to happen!!  
Never copy code from someone else or another source. Do not use any AI tool such as ChatGPT to generate any code for this assessment. Never give your code to someone else. Keep your code safely in your own possession. Plagiarism and cheating are very serious academic offenses with serious consequences for your future academic studies and work opportunities. Under current guidelines all students involved in plagiarism or cheating must be reported to the Head of School where a Disciplinary Committee will deal with the issue.*