

# React.js Exercise

## Task

You are required to create a simple web application using React.js which displays wellness data for athletes in tabular form.

## Page requirements

A wireframe of the page is below.

Wellness Report		Load Data
Athlete	Muscle Soreness	Sleep Quality
Athlete 1	7	3
Athlete 2	5	5
Athlete 3	2	8
Athlete 4	4	6
Athlete 5	6	2
Athlete 6	8	8
Athlete 7	2	3
Athlete 8	9	1
Athlete 9	10	9
Athlete 10	1	10

As a bare minimum, the page must contain the following:

- A heading titled “Wellness Report”
- A button which, when clicked, loads data from the provided JSON file into a table below.
- A table displaying the data. The table should have three columns:
  - Athlete
  - Muscle Soreness
  - Sleep Quality

## Dataset

- A sample dataset has been provided (wellness.json) which contains data for multiple athletes for the wellness metrics mentioned above.
- The dataset contains athlete names, integer values for muscle soreness and integer values for sleep quality.
- Note that you will not be able to load data via ajax in most browsers when viewing an html file over file://

## Design

- You have creative freedom over the design of the page.
- We encourage you to showcase your design flair instead of simply replicating the basic wireframe above.

## Guidelines

- You must make use of React in this exercise.
- You may use any extra libraries you find useful, however please keep them to a minimum.
- It is encouraged to create components to build up the larger application.

## Bonus tasks

These following tasks are optional and not required.

### Dynamic cell colours

For the table, apply dynamic cell colouring based on the following rules:

- Muscle Soreness
  - If the value is  $\geq 5$  and  $\leq 7$ , colour the cell orange
  - If the value is  $\geq 8$ , colour the cell red
- Sleep Quality
  - If the value is  $\leq 3$ , colour the cell red
  - If the value is equal to 10, colour the cell green

### Average row

Create an extra row at the bottom of the table which displays the average of each column.

## Submission

Please submit a single .ZIP project package of your project.