**SMART** 

## new frontier group

DoIT practice for Front-end Developers

Project 4: Simple AngularJS application

### 1. Introduction:

AngularJS is a JavaScript MVC framework developed by Google that lets you build well structured, easily testable, and maintainable front-end applications.

Many developers dive right into projects without thinking of the organization or structure of the code they're writing. It's easy to hack projects together, but the best developers spend the extra time to think about the organization of their application and adhere to sound organizational practices.

In order to write clean code that will get you your next job or promotion, you'll need to have a solid understanding of organizational techniques, and you'll need to implement those techniques in your projects. Software developers who write clean and organized code are surprisingly hard to find, so if you can master code organization you'll be a step above the rest.

## 2. Practice task:

First, let's decide the nature of the app we want to build. In this guide, we'd prefer not to spend too much time on the back-end, so we'll write something based on data that's easily attainable on the Internet—like a sports feed app.

We will use an autosport API service to act as our back-end. Luckily, the guys at Ergast are kind enough to provide a free motorsport API that will be perfect for us.

Application will have three main views:

- 1. As we're trying to build a sports feed for a racing championship, let's begin with the most relevant view: **the championship table**.
- 2. From the championship table, when you click on any driver name, goes to **list** of driver's results on all grand prix's.

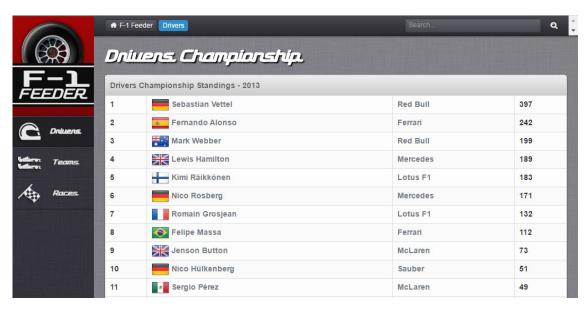
3. From the list of driver's results, when you click on a specific grand prix, goes to **standings for this specific grand prix**.

#### You will use AngularJS.

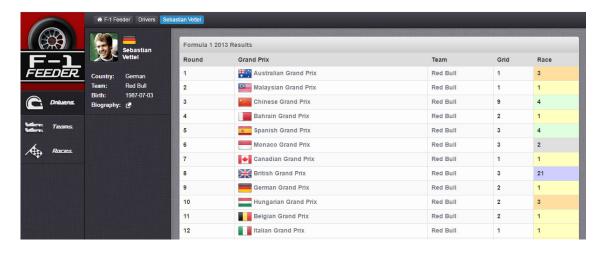
You will organize the static part (HTML,CSS with or without LESS/SASS) as per your preference. Usage of the task/package managers are optional but recommended.

#### An example screenshots

Click on Drivers menu link need to show Drivers Championship page (this is also default page)



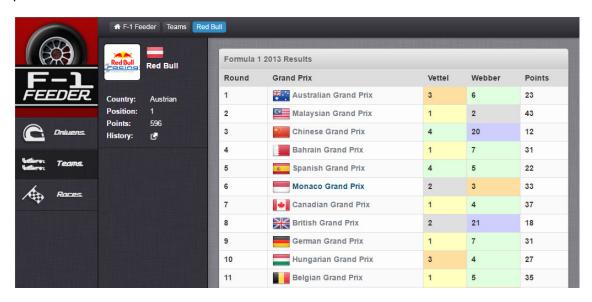
If you click on driver name for example Sebastian Vettel yiu need to show all details about this driver for actual session as you can see on page below



Click on Teams menu link need to show all about constructors as on page below



If you click Team link for example if you click RedBull links on picture above you need to show all races on which this team was competitioning as you see on picture below



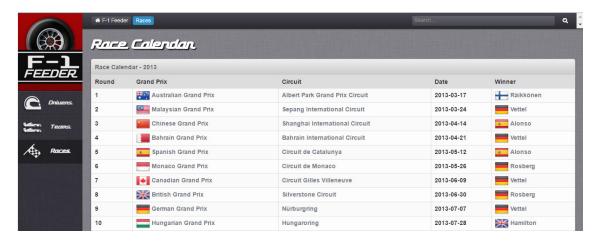
If you click on details links in Teams menu for example details link for RedBull it need to link you to wikipedia information about this racing team



If you click grand prix link for example Australian Grand Prix it will link to race and qualifying results as you can see on picture below



## Click on Races menu link need to show Race Calendar for actual year



All other links lead to same links mention above.

All API for this task can be found on:

http://ergast.com/mrd/

### 3. You will learn:

This practice covers methods for organizing your code, both conceptually and literally. You'll learn the importance of separating concerns when writing JavaScript, gaining hands-on experience along the way. Separating concerns can be done with or without an organizational library or framework. We'll learn how to separate concerns with a framework. You'll also learn strategies for exploring other libraries and frameworks on your own.

- You will learn different JavaScript frameworks
- You will learn essential abstractions of AngularJS, including modules, controllers, directives, and services

By the end of this course, you'll understand (from experience) the importance of code organization, and how to implement it with either vanilla JavaScript or an organizational library or framework. Your applications will start looking clean and professional—not just to your users, but also to anyone who looks at the code driving your applications.

# 4. Prerequisites:

This course is for intermediate web developers with some experience with JavaScript, and some prior experience with a JavaScript library, such as jQuery.

Students should also be proficient in HTML and CSS, and should have experience creating static pages.

Estimated duration: 1 month

# Useful learning sources:

https://www.pluralsight.com - playlist Front-End Developer - Project 4

http://ergast.com/mrd/

http://www.learn-angular.org/

http://www.w3schools.com/angular/

https://angular.io/docs/ts/latest/quickstart.html