# Formula 1 Database

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#### 1 Introduction

Formula One (also known as Formula 1 or F1) is the highest class of international auto racing for single-seater formula racing cars sanctioned by the Fédération Internationale de l'Automobile (FIA). The World Drivers' Championship, which became the FIA Formula One World Championship in 1981, has been one of the premier forms of racing around the world since its inaugural season in 1950.



Figure 1: Formula 1

The word formula in the name refers to the set of rules to which all participants' cars must conform. A Formula One season consists of a series of races, known as Grands Prix, which take place worldwide on both purpose-built circuits and closed public roads.

The results of each race are evaluated using a points system to determine two annual World Championships: one for drivers, the other for constructors.

# 2 Specifications and Changes

#### 2.1 Initial Specifications

Quote below was taken from the first submission of the project.

"The massive interconnected relational system of Formula 1 and the building blocks of our database can be explained by starting from many entities such as a driver, a season, or a team. For instance, a racer races for a team, which competes in a season, which includes around 20 races, which is held in a circuit among hundreds of other circuits around the world. After the race, the racer is awarded points if he/she finishes in the top 10, which forms the Championship rankings."

#### 2.2 Final Specifications

As in the final form of out project, we were able to develop most of our features mentioned in the first report. Drivers, Seasons, Teams, Races, and Circuits were developed. And the relations covering

these entities such as "races for", "works for", "raced in" were also implemented. Unfortunately, Championship system was not developed due to severe workload of the courses we are taking.

# 3 Front-end Implementation and Final Product

Bootstrap 4 was used in the development of the Front-end. Views were handcrafted carefully to provide a smooth experience to the

#### 3.1 Landing Page

Landing page provides a brief summary of Formula 1 to the user. The "Get Started" button redirects user to the Filter page.



# Formula 1 DB

A database for the fastest motorsport in the world.



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Get Started

Figure 2: Landing Page

## 3.2 Insertion Page

Insertion page provides a broad variety of insertion options. Users can create new Grand Prixs, add new people, teams and associate new people them with teams.

#### 3.3 Deletion Page

Deletion page makes it possible to remove certain records off the database.

#### 3.4 Filter Page

Filter page provides tools to user for handpicking the right data needed.

# 3.5 Circuits Page

Circuits page provides detailed information about the circuit being raced in. This includes race length, total lap count and circuit image.

### 3.6 Drivers Page

Drivers page provides a brief introduction of the selected driver by full-name with information of team that has been racing for, the number of race win that driver has, started racing date and the picture of driver.

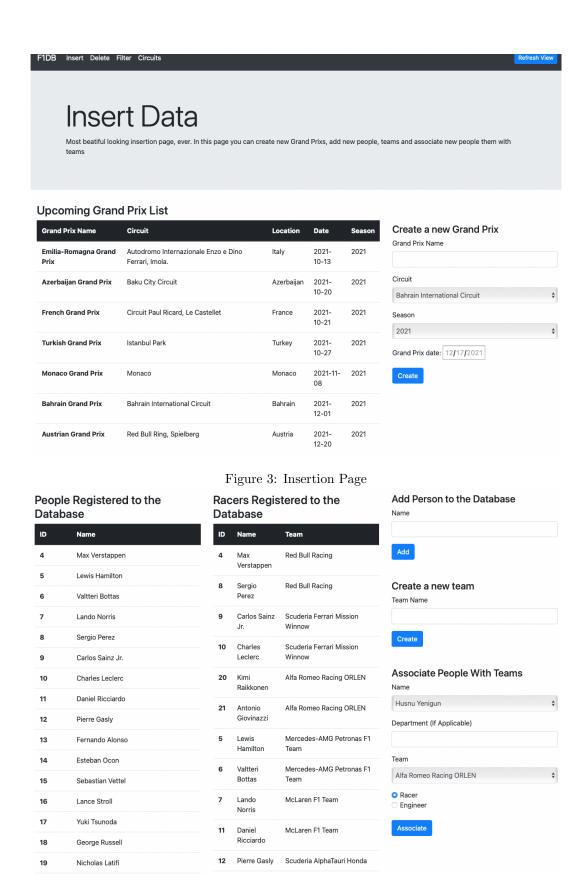


Figure 4: Insertion Page, continued

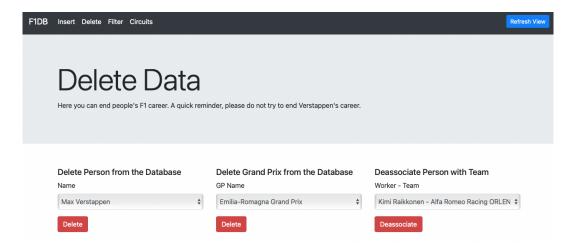


Figure 5: Deletion Page

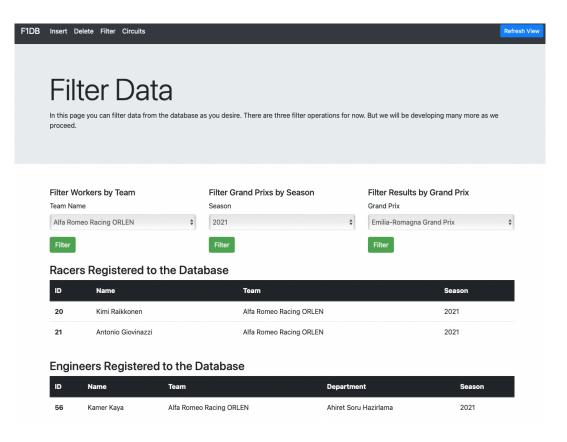


Figure 6: Filter Page

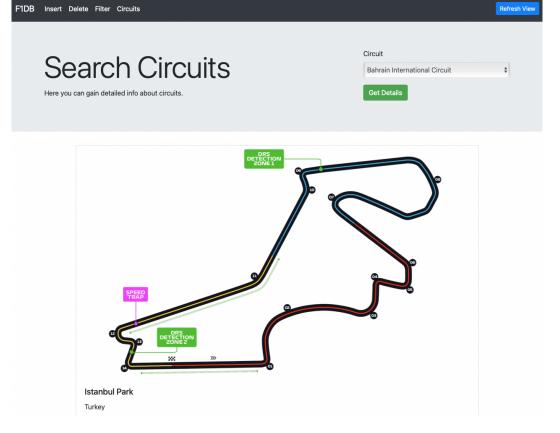


Figure 7: Circuit Info Page

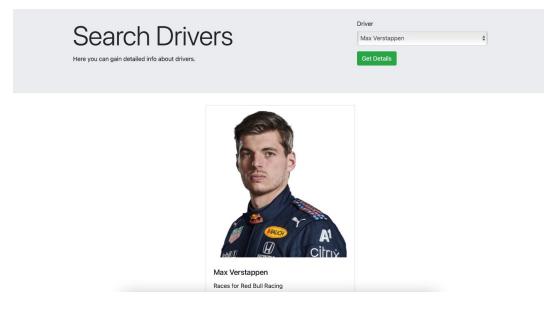


Figure 8: Driver Page