Michael Chung

CS1300 Capstone Project: Formula 1 Roster 2000-2022

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Link: https://michaelchung27.github.io/capstone/

Abstract:

For my UI/UX capstone project, I decided to extend the Development project which was

implemented in React. For this project, I was tasked with developing a list-based interactive

interface that had sorting and filtering capabilities. The goal of this application is to provide users

with basic career statistics and information (like teams, wins and points) of every driver that

drove in a Formula 1 race during the 2000-2022 seasons (about 120 drivers).

For data collection, I couldn't find an API nor a collection of API's that provided all the

information needed, so a lot of data collection from different sources was required by hand. I

also had to find an image for each driver and photoshop it in order to achieve some consistency

in all the driver headshots.

This project consists of 5 filtering categories, 5 different sorting features, a searching

component and 3 buttons. The filtering categories include Drivers (All, World Champions, and

Favorites), Teams, Nationality, Region, and Season drove in. The sorting features are both

ascending and descending and consist of Last Name, Races, Wins, Podiums, and Points. There is

a button on each driver card that add/removes it from the favorite drivers list, a clear favorites

button that clears the favorite drivers list, and a clear filters button that resets all the filters. When

stacking filters within the same category perform an OR operation and stacking different types of

filters/sorts perform an AND operation. I also implemented a responsive component that changes

to different screen sizes.

Images:

Original Project:





















