Project 1

Star Wars is awesome. So, for this project, you're going to build a website that can search and query an external API, and then display that data on your own site.

You are required to have 3 separate "main" pages:

* Characters
* Films
* Planets

Pages:

Each of these "pages" (i.e. what you display) ought to display all of the characters/films/planets obtained from from the API, depending on which menu item was selected (that is, if I select "Films", I expect each movie to be displayed, and no characters or planets).

Because each character/movie/planet has its own specific data (examples below), there should be a **character** component, a **films** component, and a **planets** component. How those components are displayed (i.e. card view, list view, etc.) is up to you.

API and Data Examples:

The [Star Wars API (Links to an external site.)](https://swapi.co/) is a REST API that returns data based upon the requests sent to it. When starting this project, we have not covered API calls. I would recommend starting the project with fake data (similar to what we did for Twitter).

Below are individual examples of data:

**Characters**

{  
      "name": "Luke Skywalker",  
      "height": "172",  
      "mass": "77",  
      "hair\_color": "blond",  
      "skin\_color": "fair",  
      "eye\_color": "blue",  
      "birth\_year": "19BBY",  
      "gender": "male",  
      "homeworld": "https://swapi.co/api/planets/1/",  
      "films": [  
            "https://swapi.co/api/films/2/",  
            "https://swapi.co/api/films/6/",  
            "https://swapi.co/api/films/3/",  
            "https://swapi.co/api/films/1/",  
            "https://swapi.co/api/films/7/"  
      ],  
      "species": [  
            "https://swapi.co/api/species/1/"  
      ],  
      "vehicles": [  
            "https://swapi.co/api/vehicles/14/",  
            "https://swapi.co/api/vehicles/30/"  
      ],  
      "starships": [  
            "https://swapi.co/api/starships/12/",  
            "https://swapi.co/api/starships/22/"  
      ],  
      "created": "2014-12-09T13:50:51.644000Z",  
      "edited": "2014-12-20T21:17:56.891000Z",  
      "url": "https://swapi.co/api/people/1/"  
}

**Movies:**

{  
      "title": "A New Hope",  
      "episode\_id": 4,  
      "opening\_crawl": "It is a period of civil war.\r\nRebel spaceships, striking\r\nfrom a hidden base, have won\r\ntheir first victory against\r\nthe evil Galactic Empire.\r\n\r\nDuring the battle, Rebel\r\nspies managed to steal secret\r\nplans to the Empire's\r\nultimate weapon, the DEATH\r\nSTAR, an armored space\r\nstation with enough power\r\nto destroy an entire planet.\r\n\r\nPursued by the Empire's\r\nsinister agents, Princess\r\nLeia races home aboard her\r\nstarship, custodian of the\r\nstolen plans that can save her\r\npeople and restore\r\nfreedom to the galaxy....",  
      "director": "George Lucas",  
      "producer": "Gary Kurtz, Rick McCallum",  
      "release\_date": "1977-05-25",  
      "characters": [  
            "https://swapi.co/api/people/1/",  
            "https://swapi.co/api/people/2/",  
            "https://swapi.co/api/people/3/",  
            "https://swapi.co/api/people/4/",  
            "https://swapi.co/api/people/5/",  
            "https://swapi.co/api/people/6/",  
            "https://swapi.co/api/people/7/",  
            "https://swapi.co/api/people/8/",  
            "https://swapi.co/api/people/9/",  
            "https://swapi.co/api/people/10/",  
            "https://swapi.co/api/people/12/",  
            "https://swapi.co/api/people/13/",  
            "https://swapi.co/api/people/14/",  
            "https://swapi.co/api/people/15/",  
            "https://swapi.co/api/people/16/",  
            "https://swapi.co/api/people/18/",  
            "https://swapi.co/api/people/19/",  
            "https://swapi.co/api/people/81/"  
      ],  
      "planets": [  
            "https://swapi.co/api/planets/2/",  
            "https://swapi.co/api/planets/3/",  
            "https://swapi.co/api/planets/1/"  
      ],  
      "starships": [  
            "https://swapi.co/api/starships/2/",  
            "https://swapi.co/api/starships/3/",  
            "https://swapi.co/api/starships/5/",  
            "https://swapi.co/api/starships/9/",  
            "https://swapi.co/api/starships/10/",  
            "https://swapi.co/api/starships/11/",  
            "https://swapi.co/api/starships/12/",  
            "https://swapi.co/api/starships/13/"  
      ],  
      "vehicles": [  
            "https://swapi.co/api/vehicles/4/",  
            "https://swapi.co/api/vehicles/6/",  
            "https://swapi.co/api/vehicles/7/",  
            "https://swapi.co/api/vehicles/8/"  
      ],  
      "species": [  
            "https://swapi.co/api/species/5/",  
            "https://swapi.co/api/species/3/",  
            "https://swapi.co/api/species/2/",  
            "https://swapi.co/api/species/1/",  
            "https://swapi.co/api/species/4/"  
      ],  
      "created": "2014-12-10T14:23:31.880000Z",  
      "edited": "2015-04-11T09:46:52.774897Z",  
      "url": "https://swapi.co/api/films/1/"  
}

**Planets:**

{  
      "name": "Tatooine",  
      "rotation\_period": "23",  
      "orbital\_period": "304",  
      "diameter": "10465",  
      "climate": "arid",  
      "gravity": "1 standard",  
      "terrain": "desert",  
      "surface\_water": "1",  
      "population": "200000",  
      "residents": [  
            "https://swapi.co/api/people/1/",  
            "https://swapi.co/api/people/2/",  
            "https://swapi.co/api/people/4/",  
            "https://swapi.co/api/people/6/",  
            "https://swapi.co/api/people/7/",  
            "https://swapi.co/api/people/8/",  
            "https://swapi.co/api/people/9/",  
            "https://swapi.co/api/people/11/",  
            "https://swapi.co/api/people/43/",  
            "https://swapi.co/api/people/62/"  
      ],  
      "films": [  
            "https://swapi.co/api/films/5/",  
            "https://swapi.co/api/films/4/",  
            "https://swapi.co/api/films/6/",  
            "https://swapi.co/api/films/3/",  
            "https://swapi.co/api/films/1/"  
      ],  
      "created": "2014-12-09T13:50:49.641000Z",  
      "edited": "2014-12-21T20:48:04.175778Z",  
      "url": "https://swapi.co/api/planets/1/"  
}

Expectations:

Your projects ought to have a **menu** bar that can switch between **characters**, **films**, and **planets**.

Each of your pages must display all corresponding data for each (i.e. all characters must be displayed for the **character** page, all planets for the **planet** page, etc).

Each page must have a **search component** that filters through the data on some specific criteria (e.g. searching on name, title, climate, etc).

Each individual component must have either a button, modal, onClick, etc. that, when clicked, displays additional information (e.g. suppose your character card displayed only **name**, **birth year**, and **species**. When clicking, the character card ought to display other additional information, such as: **films** that the character was in.

For the data that are in URI format, you need to write a function that can determine which data are URIs, and make that call to obtain their names/titles.

Styling is up to you, but do style your application in some way.

Version control is also a requirement (make sure you're committing regularly). Just that you use it. If you have not used git before you can find more information at: [https://git-scm.com/videos (Links to an external site.)](https://git-scm.com/videos)

Data to display for each component are:

* Character:
  + Name
  + Gender
  + Height
  + Homeworld
  + Films
* Film:
  + Title
  + Episode ID
  + Director
  + Release Date
  + Opening Crawl (without new lines or carriage returns).
* Planet:
  + Name
  + Climate
  + Terrain
  + Population
  + Films

Submission:

To turn your projects in, submit your entire project directories **AFTER**you remove your **node\_modules** directory. Those are huge. Once your node modules have been removed, zip your project and submit the zip file here.