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Github of project: https://github.com/silviocustodio/sw_app

Documentation

sw_app

Star Wars API (https://swapi.co/), build a React app

install all dependencies using the command:

npm install

run the application using the command:

npm start

Test

run npm test

Open the Browser

http://localhost:8080/webpack-dev-server/

Tools used

Utilizing **React.JS, Redux (JavaScript Frameworks)**, **JavaScript** functions

React create all components

Redux is an open-source JavaScript library for managing application state. (Input value, API request using Axios)

The application use **Axios**, a promise-based HTTP client. axios.get() send a request to SW API.

The application will take as input a distance in mega lights (MGLT), must be type a number to disable the Calculate button and submit the request to API.

react-giphy

The application use the plugin react-giphy, a React component displaying gifs (**random**) from Giphy.com. with star wars themes bringing image of the searched character.

Code Explanation

The output should be a collection of all the star ships and the total amount of stops required to make the distance between the planets.

About function **calculateResupplie.js**

Function that receives 3 parameters, responsible for calculating the resupplie total.

Switch that is responsible to filter the value of consumables if it should be calculated in day, week, month or year.It receives as parameter "distanceResupplie" which corresponds to the value coming from the consumables API (Ex: "3 week") which is treated by the "breakDistance" function that splits the value creating a new array containing 2 elements (Ex: ['3', 'weeks'], (index value [1] in singular or plural)

After filtering the value of the index [1] (day, week, month, or year), goes to the corresponding case and the variable "totalResupplie" calculates the consumable autonomy period (returning the ship's total autonomy hours value until you need to stop to replenish the supplements).

The index [0] corresponds to the quantity, which is multiplied with the corresponding value in hours (day = 24, week = 24 * 7, month = 24 * 30, year = 24 * 365)

The value of the "totalResupplie" that corresponds the consumable autonomy period ((returning the ship's total consumable autonomy hours value until the ship has to stop to reapplish the supplements)).

Function **swapi_list.js**

Use the map () method tha invokes the callback argument function for each Array element and returns a new Array as a result.

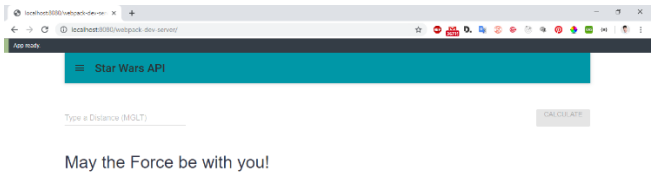
Returns the array of elements obtained from the API.

get name, mglt, consumables.

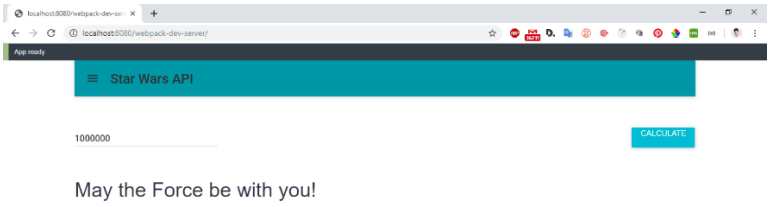
distanceResupplie calls the breakDistance function to split the data.

The const amountStops calls calculateResupplie passing as a parameter (distanceResupplie, inputDistance, mglt) and thus getting The total amount of stops required.

Images:



Type a distance of type **a number,** so Calculate button will appears



The collection of all the star ships below, with "The total amount of stops required :"