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Mini Diwali Challenge

October 29, 2021

Overview

We would like you to complete a small React challenge over the 9 days Diwali break, just to keep the concepts fresh in your mind…. Don't worry it shouldn't take longer than 1-2 hours.

We would like you to choose one of the APIs listed below and use it in a React app. Some will require more work than others, so brownie points for taking on the APIs with a trickier data structure. Some APIs will return you one thing (e.g., the random piece of advice API), whereas some will return you a list (array) of multiple datasets (e.g., the Harry Potter characters one). If the API returns one thing you can render it directly onto the page. If a list is returned you will need to map (.map()) over the array to make a component for each item in the array.

You are free to use react-code-along and any other sources (except YouTube tutorials!) as reference for this challenge.

The setup steps are

- navigate to react folder
- cpx create-react-app diwali-react-challenge
- cd diwali-react-challenge
- code .

Goals

1. **Get a working React application:** You should be able to demo this on 8th November without errors :)

2. **Use all concepts:** Test yourself! With this challenge you should be able to use and practice all the concepts we have learnt in React so far.

   a. Props

   b. Reusable Components

      i. Mapping over data

   c. Hooks

      i. useState

      ii. useEffect

APIs

- http://hp-api.herokuapp.com/api/characters (Harry Potter characters)
- https://anapioficeandfire.com/api/characters (GoT characters)
- http://api-football-standings.azharimm.site//leagues/eng.1/standings (English Premier League standings) (hard)
- https://api.spacexdata.com/v4/launches/latest (latest launch data for SpaceX)
- http://api.worldbank.org/v2/country/ind?format=json (shows basic data about the country) (change ind to gbr to get Great Britain data instead of India)
- https://x-math.herokuapp.com/api/random (gets a random mathematical expression)
- https://api.adviceslip.com/advice (random piece of advice)
- https://api.lyrics.ovh/v1/Coldplay/Adventure of a Lifetime (gets lyrics of a song)
- https://api.quarantine.country/api/v1/summary/latest (latest covid updates)
- https://qrng.anu.edu.au/contact/api-documentation/ (quantum random number generator)

Specifications

This is a mini challenge so the only additional requirements to a working app are...

- A completed README
- 10 commits

Don't overcomplicate this one, you have all the knowledge/references you need :)

Good Luck!