Homework 6

"Next.js and SSR/SSG"

The following homework assignment is worth 100 points. Please submit all files needed for me to run your application using the Canvas drop box as a zip file. Since React applications are Node applications, please **do not include** the node_modules directory in your zip file.

Requirements

For this assignment you are to build a Next.js application. This assignment will introduce you to some concepts featured by Next.js, such as Static Site Generation (SSG.)

Details

For this assignment you are building a **pocket monster** database.

POCKET MONSTER EXAMPLE

The purpose of this assignment is to create a simple Next.js application where you pull in data for the drinks using a public API.

Pocket Monster API

A free API exists that you can use to retrieve data from all sorts of cocktails:

https://pokeapi.co/

As an example, if you wanted to search for a pocket monster named "Pikachu", you can perform a HTTP GET request on this URL: https://pokeapi.co/api/v2/pokemon/pikachu. This returns the following JSON dataset:

Try it now!

https://pokeapi.co/api/v2/	pokemon/pikachu		Submit

Need a hint? Try pokemon/ditto, pokemon-species/aegislash, type/3, ability/battle-armor, or pokemon?limit=100000&offset=0.

Direct link to results: https://pokeapi.co/api/v2/pokemon/pikachu

Resource for pikachu

```
{
  "abilities": [
    {
      "ability": {
        "name": "static",
        "url": "https://pokeapi.co/api/v2/ability/9/"
      },
      "is_hidden": false,
      "slot": 1
    },
    {
      "ability": {
        "name": "lightning-rod",
        "url": "https://pokeapi.co/api/v2/ability/31/"
      },
      "is_hidden": true,
      "slot": 3
    }
  ],
  "base_experience": 112,
  "cries": {
    "latest": "https://raw.githubusercontent.com/PokeAPI/cries/main/cries/pokemon/latest/25.ogg",
    "legacy": "https://raw.githubusercontent.com/PokeAPI/cries/main/cries/pokemon/legacy/25.ogg"
  },
  "forms": [
    {
      "name": "pikachu",
```

☑ View raw JSON (419.053 kB, 13695 lines)

api/v2/pokemon/pikachu

Going through the data in the response, you'll note that Pikachu is (famously) assigned ID **25**.  You can also make an API call to the following URL to return the same data set: https://pokeapi.co/api/v2/pokemon/25
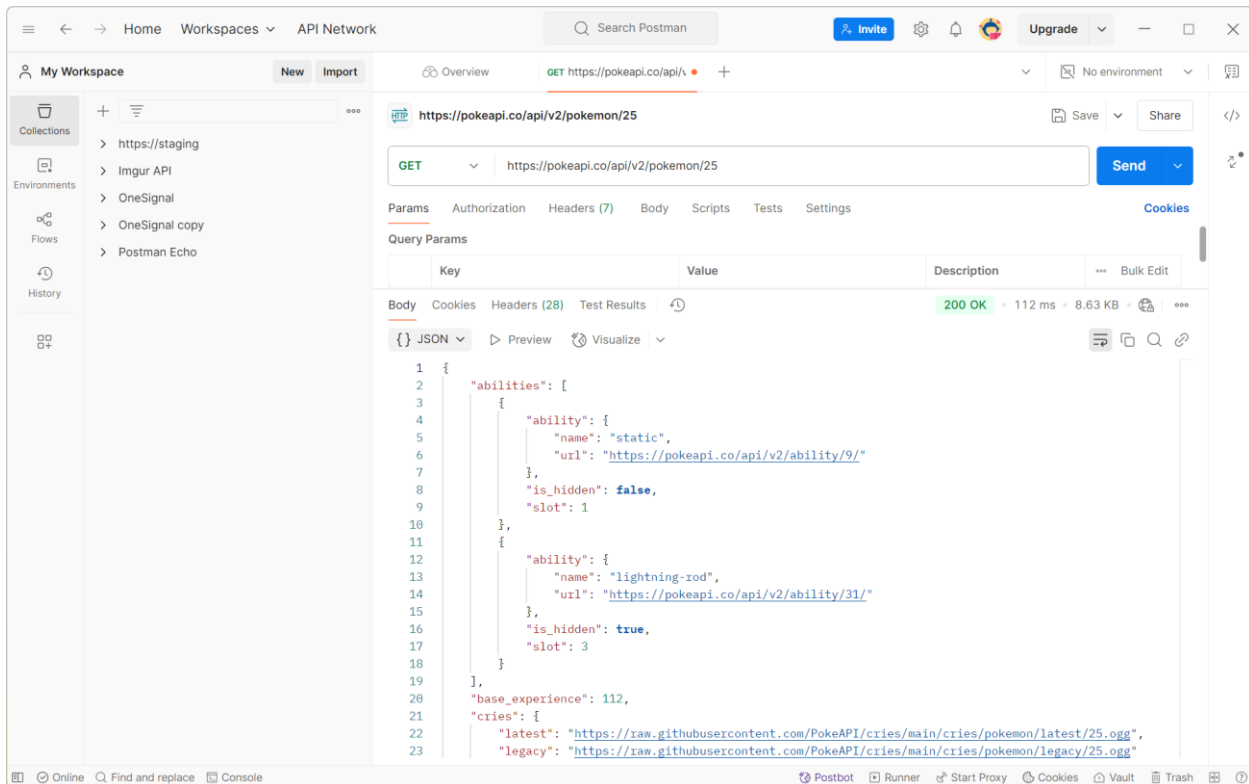
/api/v2/pokemon/25

## Implementation

For this assignment you are to build a Next.js application which can be used as a directory for the pocket monsters. Your application should handle the following two routes:

| Route URL | Route Description |
|---|---|
| **/** | The index route lists all the monsters from the database in clickable elements. When a monster is clicked, you are to show: |
| **/monsters /{id}** | This page is a detail page showing information about the monster (such as images, abilities, etc). The ID param is the param that is similarly named in the API response. |

For implementing this, you are to use **Static-Site Generation (SSG)**. That is if implemented properly and you produce a production build of your application (using *npm run build*), you should see files such as 1.html and 1.js, 2.html and 2.js, and so forth.

As a hint, you will need to incorporate both **getStaticProps** and **getStaticPaths** into your solution.

As a note, there is really no way to list all the pocket monsters directly from the API. You can use the knowledge that there is an ID param that is numeric and increments. In the current year, there are just over 1000 pocket monsters available in the database.

## Submission

Please submit a zip file of all files needed for me to run your application before close of the Canvas drop box.  Do not include the **node_modules** directory in your submission.