HCG INTERVIEW TEST

Front-end Engineer

2021
Version 1.1

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Contents

1. Technical requirements

- Create a runnable web application using Angular 9+.
- Use Node.js current LTS version.
- Use Git to manage project' source code, you need to store source code on Github or Bitbucket (public repository) for reviewing.
- Can use an UI library for styling your web app (Bootstrap, TailwindCSS…). Do not use any library needing a commercial license.
- Use an icon pack is advised. You can use Material icons, UI library's included icon pack, FontAwesome icon (free icons only) or any icon pack not having a commercial license.
- Do not use any library needing a commercial license.
- Use state management and animations in your project is advised but not required.
- Make your code clean is advised but not required.
- Good UI/UX is advised but not required.
- Good performance is advised but not required.

2. Instructions for submission

- Send the repository link to HR.
- Do not need to finish 100% of tasks. Finishing all tasks is preferable.

3. Test contents

a. API:

- PokéAPI: https://pokeapi.co/

b. References:

- PokéAPI document: https://pokeapi.co/docs/v2
- PokéAPI Sprites document: https://github.com/PokeAPI/sprites

c. Tasks

1) Create a web application with 4 sections: Header, Menu/Navigator, Footer and a section for rendering content.
2) Create a menu with items:
   - Games (aka Game Version, display all available versions as menu dropdown items / sub items with side menu)
   - Generations (Display all available generations as menu dropdown items / sub items with side menu)
   - Locations
   - Items
3) Create a home page. Home page includes:
   - Trailer section.

- Embed 4 videos.
- Display as a carousel.
- Visible slides: 3 slides per view.
- Source:
  - https://youtu.be/D0zYJ1RQ-fs
  - https://youtu.be/1roy4o4tqQM
  - https://youtu.be/bILE5BEyhdo
  - https://youtu.be/uBYORdr_TY8

- Pókemons section.
  - Display 10 pokémons with image and name.
  - Click a pokémon image or name to display a modal/dialog.
  - In modal/dialog, show details of the selected pokémon with image on the left side and information on the other side.
  - Have a "See more" button on the top right corner of this section to open the pokémon list.
- Items section: Display 10 items with image and name.

4) Create a list page to display pokémon list.
- Have a search bar at the top of the list to filter pokémon by name. Debounce time for search is 300ms.
- Display 5 pokémon on each row.
- Use pagination for this page. Maximum 20 pokémon visible at the same time.
- Have a dropdown to change the number of visible pokémon (10, 20, 50, 100), 20 is the default value.
- Click a pokémon image or name to display a modal/dialog with details as same as the home page.
- (Optional) Can filter pokémon with query params.
- (Optional) Have a toggle button to switch between English and Japanese pokémon display name. English is the default language.
- (Optional) Apply state management for displaying smoothier when filtering pokémon or changing page.

5) Make the web application responsive.