TLG Recruiting – FE Homework

Overview

The homework has the aim of implementing a simple web application that deals with wish list items and content items. The frontend technology can be chosen by the candidate and, in the remainder of this document, a set of requirements will be briefly presented.

Functional Requirements

- The FE Framework to be used can be React, Angular or jQuery
- A login view is required in order to allow only registered users to navigate the application
  - Credentials (email and password) can be any pair of string which match the following criteria:
    - Email
      - valid email address
    - Password (i.e. "AValidPassw0rd")
      - at least one uppercase
      - at least one lowercase
      - at least a number
      - minimum 8 characters
- A navigation menu must be implemented in order to allow users to browse the following pages:
  - Content Feed page
  - Contact me page
  - Wishlist page
  - Login page (or Logout CTA in case of logged in users)
- On logout, the user is redirected to login view which is the only view that can be browsed by guests
- The Content Feed page is a collection of contents that must be presented to the user, and it has the following structure:
  - Contents must be retrieved using an API Integration (taken from Top 50 Most Popular APIs (Updated for 2022) | RapidAPI)
  - One of the following features must be implemented (only one is required for this homework):
    - infinite scroll
    - load more
    - pagination
  - A Loader component is displayed during transitions (e.g., during loading).
  - Desktop layout: 3x4 items per row
  - Mobile layout: 12 items in column (1 per row)
- The Contact me page is structured as follows:
  - Contact Form with the following fields:
    - First
    - Last
    - Email
    - Subject (from a list)
    - Text (textarea)

- Privacy consent checkbox (mandatory)
- Submit button
  - The form Request format must be JSON
  - The desktop layout is organized in the following rows:
    - First + Last
    - Email + Subject
    - Text
    - Privacy consent
    - Submit
  - The mobile layout is organized with one input per row
- The Wishlist page includes a view showing local list of preferred items where the user can add/remove/view.
  - Desktop/Mobile layout: UI is completely up to you
- The application must deal with two main breakpoints:
  - Mobile
  - Desktop

Implementation related to other possible breakpoints is not required for the sake of simplicity.

Bonus requirements (nice to have)

- Preferences/access token persistence on the Frontend
- PWA
- State management library
- Tablet breakpoint
- Nice UI
- Form protection with captcha

Delivery instructions

- **Deadline**: the complete project must be submitted not late than 3 days from the day of the reception of this document
- The project must be submitted in the form of a **PRIVATE** repository on Github and it must be shared with the following users: matteo.virgilio@thelevelgroup.com, federico.tomasi@thelevelgroup.com, luca.izzo@thelevelgroup.com, giulia.benzi@thelevelgroup.com
- A README.md file must be included in the project root folder in order to provide instructions about how to build/run the code
- Candidate should make assumptions about incomplete and/or missing requirements and take decisions accordingly. These decisions will be part of the evaluation
- Code quality will be part of the evaluation (clean code/patterns vs crutches)