BarBooks Coding Assessment

Develop a solution that allows the user to search for any game he wants.

Instructions

- 1. Use your time to deliver a solution that showcases your coding skills and the level of quality you expect (but no need to gold plate it); we are interested in the internal quality of your solution as much as in that it works.
- 2. In a real-life scenario, you would ask questions to clarify any doubts but for this assessment, document the questions you would ask and provide your answers in the readme file.
- 3. Once complete, publish your code on GitHub and let us know through the email talent@barbooksaustralia.com
- 4. Make sure your package contains a README file with all relevant information necessary to run your solution, including:
 - a. What kind libraries your project is using?
 - b. What could you do better in your code next iteration?
 - c. Any other notes you feel relevant for the evaluation of your solution.
- 5. When doing a code test or a pairing exercise we want you to follow the development best practices and make sure you put as much emphasis on code quality as possible. But don't try to over-engineer it. Clean, scalable, well-tested code is what we're after.
- 6. Thanks for taking the time to complete the coding assessment. We look forward to receiving your solution! **And please, keep this document confidential.**

Constraints

- You must use JavaScript technology for most of the solution and we expect you to do it using React or Vue.
- The solution must be implemented with an acceptable level of automated tests; we should be able to verify it from the command line (a.k.a. npm test)
- Your back-end component must integrate with the API Endpoints. The service will return a JSON containing all the information you need to build your app.
- You are allowed to use a code generator (e.g. create-react-app, @vue/cli etc) to create your initial setup only.
- You are free to use libraries (eg. Vue, VueX, React, Redux, Jest, ExpressJS, React-Select, ReactQuery, useSWR, and others) but you cannot use anything that creates the structure/scaffolding for you like frameworks.
- Please DO NOT use any UI/UX framework like React-Bootstrap, ReactStrap, MaterialUI, Vuetify, BootstrapVue, Vue Material, etc. Create your visual components on your own using your CSS skills.
- The solution must run via the command-line and we should be able to boot it with a single command. The fewer dependencies on the operating system, the better.
 Once the minimum requirements are met, we must be able to boot it with a one-liner. (e.g. npm start)
- A database server isn't required, if needed, mock the data in any application layer.

API Documentation

API URL

https://api.dev.cloud.barbooksaustralia.com/code-challenge/api

Endpoints

1. Games list

GET /games

2. Games by platform

GET /games?platform=pc

- Insert platform, eg: pc, browser
- 3. Games by category or tag

GET /games?category=shooter

- Insert game category or tag, eg: mmorpg, shooter, strategy, moba, racing, sports, etc.
- 4. Sort games by release date, alphabetical or relevance

GET /games?sort-by=alphabetical

- Insert sort by, eg: release-date, alphabetical or relevance
- 5. Games by platform & category & sorted

GET /games?platform=browser&category=mmorpg&sort-by=release-date

6. Filter Games by multiple tags for personalized results

GET /filter?tag=3d.mmorpg.fantasy.pvp&platform=pc

- Insert tag, eg: mmorpg, shooter, pvp, mmofps, etc...
- Optionally you can also use the "platform" and "sort" parameters

7. Categories List

GET /categories

8. Return details from a specific game

GET /game?id=452

API CORS Support

For local development, we would recommend using a proxy middleware.

- 1. https://create-react-app.dev/docs/proxying-api-requests-in-development/#configuring-the-proxy-manually
- 2. https://cli.vuejs.org/config/#devserver-proxy

Rate Limits

Please avoid doing more than 4 requests per second.

Responses

200: Success

404: Object not found: Game or endpoint not found

429: Too many requests

500: Something wrong on our end (unexpected server errors)

Frontend Guidelines

General

- You must use CSS Modules. (https://github.com/css-modules/css-modules)
- Prefer to use functional components instead of classes.
- You can use Less, SSCS, CSS.
- Keep your code clean and most importantly, keep it readable.
- Using lazy load images is a plus but not mandatory.
- Thinking about usability is also a plus.

Home page

- The search box must run in memory and filtering by name only.
- The user must be able to type the category (like an auto-complete).
- Multiple categories can be added (eg. tags). Check the API documentation for more information.
- The filters are complementary and must be sent to the API generating a new request on every change.
- The state of the filter must remains when navigating between pages.

Details page

- You must list all the information that comes from the API.
- The "back" button must return to the home page.

Wireframes

See the document attached.