React Engineer Take-home exercise

This take-home exercise focuses on a key aspect of react applications: use reducers ad react fundamentals.

Goals

You are to reproduce the same application as shown in the pictures above. This exercise should take you a couple of hours to complete. However, if you think you'll need more time either let us know at the beginning or while developping it. Different developers code at different speeds, but quality code comes from: good abstractions, good namings, good comments.

Below are some of the product and technical requirements, as well as some stretch goals.

Product goals

Must have:

- □ Must use react-router for navigation.
- □ Must use redux-toolkit for reducer's management.
- □ Must use axios for API requests (including errors).
- □ Must look like screen captures using CSS.
- □ The **Home page** should contain:
  - □ A button to access to the List page
- □ The **List page** should contain:
  - □ A list with movies
  - □ Each item must use imported CSS and inline CSS.
  - □ The basic movie details (title + overview).
- □ The **Detail page** should contain:
  - □ Back button to list
  - □ Image of the movie
  - □ Details (title, description, any pertinent info…) of the movie
  - □ Flex for CSS Layout

Stretch goals:

- □ User friendly error management (movies id does not exits, no internet, …)
- □ Loading indicator.
- □ Using CSS/React Library (MUI, Semantic, Bootstrap React or Ant Design only)
- □ Pagination

Extra stretch goals:

- □ Using Typescript
- □ Fade in/out transisition between routes
- □ Search between movies

□ Drag&Drop between movies

Technical goals

To ensure consistency, your project will have to follow the technical requirements listed below:

- Must run with the `yarn start` or `npm start` command.
- Must run on any modern web browser.
- **DO NOT USE** any other libraries than ones listed in package.json (except for Typescript and graphical React libraries). Re-inventing the wheel is something we usually avoid, but here we want full control of its behaviour and we do not want to rely on a third-party.

Running the project

The project requires:

- Yarn or Npm to be installed and updated to the latest version.

To make sure that you have all dependencies correctly installed, follow the official documentation: https://fr.reactjs.org/docs/getting-started.html

Once everything is setup, run the simulator with `yarn start`.

Dependencies

This project comes with pre-installed packages that you are free to use or not. They are given for guidance, but if you think that you are better doing things yourself, do not hesitate to do so, but keep in mind that you'll be asked why.

- `react-router-dom`: to handle the app's navigation and screens.
- `@reduxjs/toolkit`: to handle reducers.
- `axios`: to handle API requests.

Documentation

- Project was created using: https://create-react-app.dev/docs/getting-started