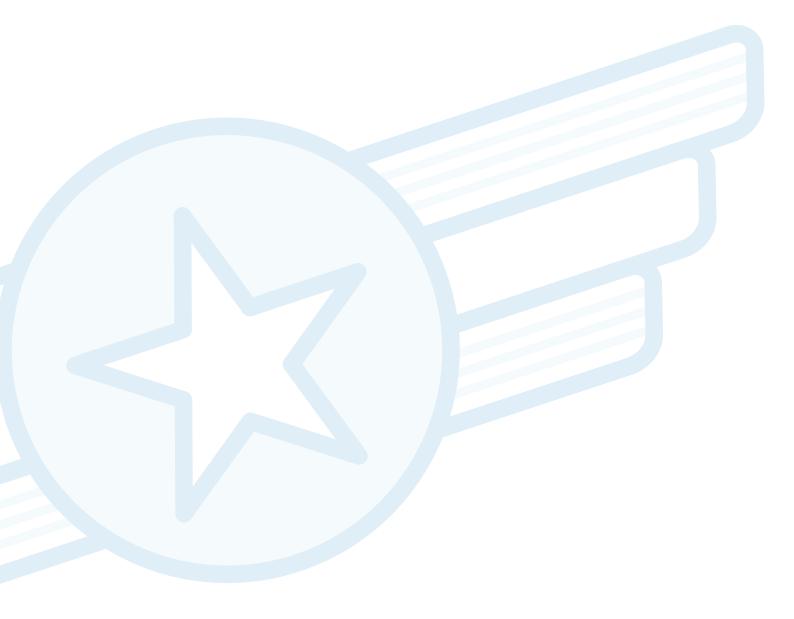
# **REACT DEVELOPMENT TEST**

Battleship game



### **MAIN GOAL**

Develop a simplified React version of the battleship game; player vs CPU.

#### **GAME ELEMENTS AND CHARACTERISTICS**

- 10x10 board size
- 1 carrier of 4 spaces
- 3 cruisers of 3 spaces
- 1 submarine of 2 spaces
- Ships must be straight lines
- Ships can be placed horizontally or vertically

#### **BASIC GAMEPLAY**

The game should have at least **3 screens** with the following components and actions. All mockups are just for reference and can be improved.

#### **START SCREEN**

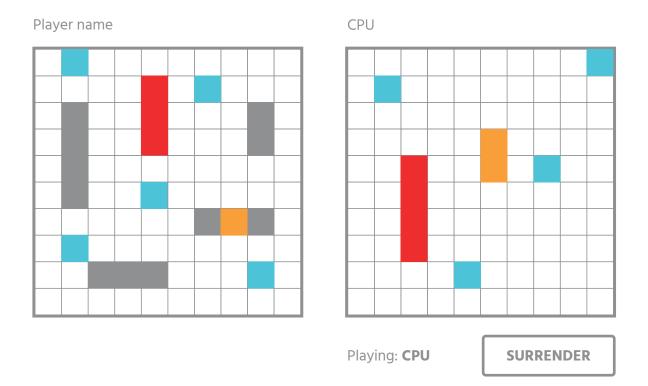
- Place your ships on the board
- Enter player name
- Button with "Start game" label

Player name

**START GAME** 

#### **GAME SCREEN**

- Player and CPU boards
- Olicking on computer board, you launch your missiles
- ✓ Launched missiles reference
  HIT –orange–, DESTROYED –red–, MISSED/WATER –light blue–
- Attempt feedback (ship hit, ship destroyed, shot missed)
- CPU missiles can't be launched in random way (once the CPU hits a ship, the next shots must follow some strategy in order to sink the ship)
- Surrender button to end the game manually



#### **END GAME SCREEN**

- Restart button to go back to the Start screen

For more info about the game, check the Wikipedia article. https://en.wikipedia.org/wiki/Battleship\_(game)

## **REQUIREMENTS**

- You need to create a **GitHub repository** and send us the link so we can see the progress
- Please, try to commit often and use clear and concise commit messages
- The project must be bootstrapped with Create React App (https://github.com/facebook/create-react-app)
- Use React Hooks and avoid to use Classes
- You must use Redux to manage the application state
- Each component must have its own test file
- Include Snapshots Testing
- Try to reach a good percentage of coverage
- Include **ESLint using Airbnb's ESLint Rules** (eslint-config-airbnb)
- Keep the use of third-party packages to a minimum
- Try to use the latest versions of the packages that are included
- Add documentation, highlight on complex logics
- Should work in the latest versions of all major browsers (Edge, Chrome, Firefox and Safari), both desktop and mobile
- Code and comments must be in English
- Keep in mind that we are going to analyze the code, look at good practices, variable names, structures and so on, good luck!

