

Barcelona – Software Developer Candidate Exercise

Hello,

Please could you kindly do the game described below?

We are expecting you to create a small project to see how you write, organise and unit test code.

Try to have it in one week, but if you need more time, don't worry, just tell us. On the other hand, don't spend too much time, there is no need to do all of it, just get as far as you can with the requirements.

Also, do not hesitate to contact us if you have any doubts!

Many thanks and good luck!

Front-end Coding Challenge

Create a simple Concentration/Pairs/Memory game in JavaScript based on the following requirements. You don't need to involve two or more players or a scoring system, a simple solitaire version is fine enough.

More details about the game:

- Concentration/Pairs/Memory game: [https://en.wikipedia.org/wiki/Concentration_\(card_game\)](https://en.wikipedia.org/wiki/Concentration_(card_game))
- Solitaire version: [https://en.wikipedia.org/wiki/Concentration_\(card_game\)#Solitaire](https://en.wikipedia.org/wiki/Concentration_(card_game)#Solitaire)

Guidelines

- Implement it as a single page application.
- All application logic should sit on the front-end side.
- Don't use any other plugin or downloaded codebase from the Internet.
- We don't like unhandled error messages on the console or getting stuck in the application.
- Send us the source code of your solution zipped up.

Game Cards

The game cards should be images retrieved from the following service based on a user defined keyword:

- Documentation: <https://pixabay.com/api/docs/>
- API Key: 5707439-576ba9bbcdefa781f30c1cc40

Screens

- Start screen
 - Display a simple form for the user to type in the keyword for the game.
 - When the form is submitted switch to the main screen.
- Main screen
 - Get the images based on the user-supplied keyword.
 - Render 10 pairs of cards with the images unfolded for exactly 1.5 seconds before the game starts to give some hint to the user.
 - Hide the images and let the user to play the game according to the standard rules.
 - When the user matches all pairs navigate to the summary screen.
- Summary screen
 - Display the total time of the game.
 - Add a button to return to the start screen.

