



# Evaluation Test

➤ JavaScript

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## 1 Introduction

As a part of the Fora Soft's review process we would like you to demonstrate your understanding of writing code in JavaScript and an ability to learn new technologies. You are going to be presented with a test task that you need to complete. When writing your code, please bear in mind that it should (*general technical requirements*):

- ✓ be production-ready
- ✓ be understandable and maintainable by other developers
- ✓ demonstrate best-practice
- ✓ be robust and handle error situations
- ✓ be bug free, compile and execute correctly
- ✓ be written primarily in JavaScript

## 2 Scope Overview

As a part of the test task, you need to develop a simple JavaScript application – an online tic-tac-toe game (*business requirements*):

- ✓ When a user opens a page, (s)he sees a screen for waiting of a second player. On the screen (s)he sees a link which needs to be sent to the second player.
- ✓ Having opened the invitation link in browser, the second player sees a game screen. The first player is sent to the game screen as well.
- ✓ The player who sent the invitation link plays first.
- ✓ Players play turn by turn. The game process should be accompanied by a simple animation and, possibly, by sounds.
- ✓ In the end of the game the results must be displayed on the screen.
- ✓ Several pairs of players can play at the same time.

Your solution should (*specific technical requirements*):

- ✓ be well commented
- ✓ use OOP practices
- ✓ use node.js for the server side
- ✓ use socket.io for communication between the client and the server
- ✓ use sound manager for the sound effects
- ✓ use React JS for UI

You will have an advantage in the competition for this position if you add the following functions (*1<sup>st</sup> level of additional business requirements*). Candidates who are more experienced than a junior-level must implement them:

- ✓ Text chat on the game screen, so that the players could text chat with each other while

playing

You will have an advantage in the competition for this position if you add the following functions (*2<sup>nd</sup> level of additional business requirements*). Candidates who are more experienced than a middle-level must implement them:

- ✓ Video + audio chat on the game screen, so that the players could video chat with each other

### 3 Submission

Having tested the result, please send the solution including any dependencies as a zipped archive and a cover letter to [hr@fora-soft.com](mailto:hr@fora-soft.com) with the Subject “Evaluation Test JavaScript”. Once we have reviewed your solution, we might set up a conversation with our Senior Software Developer.