

## Node.js Developer Test Assignment

### (!) General Information

1. Requirements and deliverables for your test assignment solution:
  - a. Deploy your work on any hosting (so that it can be viewed in a browser without us deploying your source code ourselves) and send us a link to it.
  - b. In your email specify the list of completed items and which tools, libraries, etc. you used in your solution. If you did not complete all the items of the test assignment, please clarify the reason why you have not completed them (not enough time, not enough experience/knowledge, something else).
  - c. Be sure to attach to the letter the most detailed and up-to-date CV, indicating the city, photo, contacts and previous work experience (even if not related to IT).
  - d. Provide a link to the github/bitbucket repository.
  - e. Write in the email how many hours were spent on the assignment and which difficulties/problems you have faced.
  - f. Send your email to the email address **hr@abz.agency**.
2. Materials for this test assignment:
  - a. All materials used in this test assignment **were specially developed** by abz.agency employees to test applicants' knowledge as part of the test assignment for this vacancy and have nothing to do with our commercial projects.
  - b. Your work will not be used for commercial and (even) non-commercial purposes.
  - c. You **must not use** any materials of this test assignment and your solution to it for any commercial or non-commercial purposes (including in a portfolio, for organizing courses, or as a test in another company).

**Important!** *Your solution to the test assignment will only be considered by our team if it complies with **all** the requirements listed above.*

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**(<) Test assignment**

1. Implement simple REST API server as defined in the [API documentation](#) (OpenAPI)
2. Data generation / seeders
  - a. Implement a data generator and seeders for the initial filling of the database with data (45 users).
  - b. The data should be as close as possible similar to the data which a real user would fill.
3. POST request handling requirements:
  - a. The image needs to be cropped (center/center) and saved as jpg 70x70px.
  - b. The image should be optimized using the [tinypng.com](#) API. You can use any other API service for image optimization (we use [kraken.io](#), but it's paid only), just make sure to indicate in your email which service was used and why.
  - c. An authorization token is needed only to demonstrate the ability to generate and use it.
4. Implement frontend part, just to demonstrate how your server works. Without beautiful design and formatting, you can use any ready-made UI components that you feel comfortable working with. We will only be paying attention to the output of the data and verifying if form works.
  - a. Display a list of users with a "Show more" button, output 6 users per page.
  - b. Create an add new user form. No validation is needed on the front-end part, all validations should be done only on the server side.

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**(T) Technical specifications**

- Node.js
- MySQL/PostgreSQL
- NestJS/ExpressJS

**Important!** In your solution you can use any third-party Composer, NPM modules and / or Javascript / CSS libraries, without any restrictions. All 3rd party NPM modules and/or Javascript/CSS libraries must be added to the project via npm/yarn.

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