



Software Engineer Case Study

Duration: 2 days

Thank you for your interest in the Software Engineer position at Playable Factory. We're excited about your application and would like to further explore your skills.

Requirements:

- Develop a To-Do App, use React.js for the frontend and Node.js for the backend.
- Two separate applications should use REST API to communicate.
- The backend application can be developed by Node.js Express.js or Nest.js.
- The frontend application can be developed using React.js or any React framework.
- Using MongoDB for the database is preferred (nice to have).
- The app will have two pages: a login page and a page for managing to-dos (add, edit, delete, and list).
- Implement JWT-based authentication (Local-Session-Cookie can be used as per preference).
- Use libraries such as joi, express-validator, or zod for backend validation.
- Do not use a fake database.
- Libraries like antdesign or mantine can be used for UI design.
- Write a README.md file explaining how to run the program (including manual user creation and database setup).
- Each user can only access and edit their own to-dos.
- To-dos can include image and file uploads.
- The image upload will serve as a thumbnail for the to-do and will appear as a small image in the list (ensure to check if the upload is an image).
- File uploads will appear as attachments and can be downloaded.
- To-dos can be tagged and filtered by tag in the list.
- Text search functionality for to-dos will be implemented on the backend.
- Implement pagination, with the logic handled on the backend.

Evaluation Criteria:

- Code organization and readability.
- Modern and correct usage of packages.
- Absence of obvious performance issues.
- Avoidance of anti-patterns that could lead to bugs.