



QA Automation Engineer – Assignment

Dear Candidate,

As part of our evaluation process for the QA Automation Engineer role, we would like you to complete the following technical assignment. This task is designed to assess your proficiency in test automation, use of **Playwright with TypeScript**, and your ability to structure code in a clear and maintainable way.

The assignment should be submitted within **3 days** of receiving it.

Please follow the instructions below, and submit:

1. UI Automation Task – E2E Flow

- Website: <https://www.automationexercise.com/>
- Create an **end-to-end (E2E) test flow** using Playwright with TypeScript.
- Use the **Page Object Model (POM)** design pattern.
- Ensure the test covers key functionality (e.g., navigating the site, searching for a product, adding to cart, checkout simulation).

2. Database Task – PostgreSQL

- Website: <https://pgexercises.com/>
- Under your account, create a **PostgreSQL connection string** in the following format:
`postgresql://postgres:mypassword@localhost:5432/mydatabase`
- Inside your Playwright project, implement **CRUD operations** (Create, Read, Update, Delete) using this database connection.
- Make sure your implementation is **clear, structured, and easy to understand** for other team members.

3. API Task – gRPC

- gRPC Endpoint: <https://grpcb.in/>
- Within your Playwright project, implement CRUD operations using gRPC.
- Structure the code in a clean and maintainable manner.
- Ensure that your implementation is easy for other team members to follow.

Submission Guidelines

- Please share a link to a GitHub repository (or other version-controlled environment) with your solution.
- Include a brief README file with instructions on how to run your code and any relevant setup notes.
- Make sure the code is well-structured, documented, and reflects your best practices.

I look forward to reviewing your submission!

Nissim

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