



# TECHNICAL TEST INSTRUCTIONS

Software Engineer





## INSTRUCTIONS

The assignment is to implement a system called “InstaShare”.

### Requirements

The **frontend** (either a web or a mobile app) should be implemented with the latest stable version of the frontend technology specified by your job application. The frontend should be based on modern UI/UX principles and methodologies.

The **backend** should be implemented as an independent JSON-based Web service powered by a database or a distributed file system (DFS).

Users of the website should be able to create an account and login with a previously created account.

Once logged in, the user should be able to upload a file that will be processed asynchronously by the backend. Once the file has been uploaded, the user can proceed with uploading more files, review the name, status and size of previously uploaded files, or change the name of a previously uploaded file.

Uploaded files are stored in a database or a distributed file system and a service job should pick up the file from the database / DFS, compress it with ZIP and reinsert it into the database / DFS.

Once the file has been zipped, the user of the community site can download the file.

### Final remarks

- You can add **whatever technology or best practice you know**. This means you should, on top of the best solution, use: Docker, linters, microservices, etc.
- Minimum code coverage must be **85%**.
- There must be Unit, Integration and E2E tests.
- The system should be designed with caching and scalability in mind.
- Use **git** commits and **good practices** which you can think of.
- You have **10 days** to complete the exercise, but feel free to submit earlier if you finish it before.
- Write the program using **TDD** or **BDD** techniques.
- **Upload** the code to a public **GitHub** repository and share the link with us.

**\*\*VIP BONUS TIP:** Get [more] the attention of our experts and deliver a **deployed** version of the **solution**. Eg: You can use [Vercel](#) for frontend, [Heroku](#) for backend, or other solutions you prefer.

**Good luck!**