

Felicity Digital Technical Assignment

Full Stack Developer Assessment:

The aim of this assessment is to allow you to demonstrate your skills in developing **Back-End** and **User Interfaces** for the web. We want to see both how you approach web UI construction and also the strength of the implementation you arrive at.

Instructions:

- Please read the **deliverables** carefully and make your estimation for the task. Break down the total project into small tasks and write them in a text file and put your estimation against each task.
- Once you have got your task written down, upload the text file in your git repo along with your initial project structure.
- Each task you complete, upload it to your Git repo.
- After completing the project email your repository link to us. Please make sure you've written the instructions on the README file on how to start your project.

Deliverables:

You have to develop a **Twitter Clone** including both backend and frontend. Use case of the application will be as below:

Application Specifications:

- The user can follow other users.
- By following, a list of tweets posted by other users is displayed in the timeline.
- The user can post tweets as many times as they want.
- Only the user who posted can delete his tweet.
- The user can LIKE another person's tweet.

Database:

- You have the freedom to use any SQL / NoSQL database

Server:

- Please implement the REST API. There are three sample endpoints below. I think you need more endpoints, so you can add more endpoints as needed

e.g.

- [GET] /api/tweets/
- [POST] /api/me/tweets/
- [DELETE] /api/me/tweets/:id/

Note: Best patterns and practices also evaluated.

Client:

Please implement the below function.

- Timeline
 - List of Tweet information (e.g. text, LIKE count)
 - LIKE button each tweet
 - Show 10 tweets per page. (need to implement pagination)
- Tweet Detail
 - Tweet Information (e.g. text, LIKE count)
- Own User Profile
 - User information (e.g. name, followCount, followedCount)
 - List of own tweets
 - Button for delete a tweet
- Other User Profile
 - User information (e.g. name, followCount, followedCount)
 - List of the user's tweets

Programming Language

- Typescript / Javascript

Note: Please program by Typescript as much as possible. The Typescript ratio in your project is also evaluated.

Technical requirements:

- You should use any **NodeJS framework** to write Back-End code (NestJS is preferable, not mandatory)
- You should use **ReactJS** or **NextJS** to write Front-End code
- You do not need to focus on the color or images, just focus on implementing the features

Best patterns and practices should be followed.