

## **TinyURL - Unleash Home Assignment**

Your task is to build a URL shortening system named TinyUrl.

### **Part 1**

Before you proceed with implementation, briefly describe the following (2-3 lines each answer):

1. What is a URL shortening system?
2. What's the main value? Who needs such a system and why?
3. Describe The main mechanism of work and system components.
4. What do you think are the main challenges in implementing and running the system
5. Try to suggest some ideas for advanced features.

### **Part 2**

To implement the system you should use the following technologies:

1. NodeJS (TypeScript) - for server code
2. Angular TypeScript - for client code
3. MongoDB - for database

Required Features:

- A web page for end-users to generate and extract short URLs
- A web server that processes tiny URL and redirects users to the right target page
- Create a web page for admins (no authorization required) to view the most popular **domains** in the last 24 hours.

## **Submission Guidelines**

Please submit your code in a git repository (GitHub/GitLab/BitBucket).

Please share your answers for part 1 as part of the repository (prefer an MD file)

Good Luck!

Unleash Team