

Thank you for considering the Code Factory as your potential next employer. The coding challenge gives you an impression of what's important for us when building software systems. Although URL-shortener are not our business, we hope you have some fun with it.

### The task

Imagine you're building an URL shortener as a potential next-big-thing product. To test it, we would like to first have an MVP with only basic functionality.

However, if everything goes according to plan, we will invest more effort into this so even the MVP should be a modern, nicely written, maintainable and production ready API.

For the MVP we don't want any kind of user registration or security. We only care that we provide a proper REST API that will enable other users/ clients to send a URL and will receive some kind of identifier/ hash to which this URL corresponds in our system. And the other way around of course, meaning that a user should be able to resolve the full URL.

To speed up the development, we won't be writing everything on our own, so please think of libraries/ components you could use to fulfill the task.

### Helpful info:

- include **.git** folder in your solution so we can, with the help of the Git history, see and understand your thinking process
- production ready API can mean a lot of things to different people. We're interested to see what you think a quality production ready API solution looks like. Imagine that the moment you deliver the solution, we'll deploy it to all our environments, consisting of multiple instances. So, provide data in a way that allows customization for dedicated environments
- when designing the solution please think about global scalability: what endpoints will be used the most, what might be a bottle neck, what could be a possible solution to identify problems

Have fun with our coding challenge. If you have any questions, don't hesitate to ask.