**Description**

Most of us are familiar with seeing URLs like [bit.ly](http://bit.ly/) or [t.co](http://t.co/) on our Twitter or Facebook feeds. These are examples of shortened URLs, which are a short alias or pointer to a longer page link. For example, I can send you the shortened URL <http://ic.click/hnN58bl> that will forward you to a very long CBC URL to [Young Canadian Olympians poised to lead the way at Milan-Cortina in 2026 | CBC Sports](https://www.cbc.ca/sports/olympics/winter/young-canadian-olympians-poised-to-lead-way-italy-2026-winter-games-1.6358543).

**Mandatory Requirements**

* Design and implement an API for short URL creation.
* Implement forwarding of short URLs to the original ones. It means, if I open the short URL I should be redirected to the original one.
* There should be some form of persistent storage.

**Bonus Requirements**

* The application should be distributed as one or more Docker images
* Design and implement an API for gathering different statistics

**Assessment**

Treat this as a real project. It should be readable, maintainable, and extensible where appropriate.

The implementation should preferably be in C#, however, any language can be used.

It should be clear how to work with the solution and what is going on (especially how to run the solution locally).

You should send us a link to a Git repository that we will be able to clone.