**Description**

Most of us are familiar with seeing URLs like bit.ly or 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://bit.ly/SaaYw5> that will forward you to a very long Google URL with search

results on how to iron a shirt.

**Mandatory Requirements**

* Design and implement an API for short URL creation
* Implement forwarding of short URLs to the original ones
* There should be some form of persistent storage
* The application should be distributed as one or more Docker images

**Additional Requirements**

* 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 Java, however any language can be used.

If you will transfer it to another team - it should be clear how to work with it and

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