**Assignment :**

Create an URL Shortener Service like Tiny URL.

The application should be designed to scale to support concurrent shorten URL requests of 5000 and forward requests of 50000 and average of 100000 hits daily.

You should consider scenarios like – Duplicate URL, Expiry, long URL Support.

**Rules of the Game**

1. You have two full days to implement a solution.

2. We are interested in your design capabilities, data modelling and object-oriented development skills, so please solve the problem keeping this in mind.

3. Please ensure that the coding conventions, directory structure and build approach of your project follow the conventions set by popular open source projects in the Java/Javascript.

4.  You have to solve the problem in Java without using any external libraries except for a testing library for TDD. Your solution must build+run on Linux and Windows.

5.  Please use Git for version control. We expect you to send us a standard zip or tarball of your source code when you're done that includes Git metadata (the .git folder) in the tarball so we can look at your commit logs and understand how your solution evolved. Frequent commits are a huge plus.

6.  Please do not check in class files, jars or other libraries or output from the build process. Use one of maven or gradle for build automation and dependency.

7.  Please write comprehensive unit tests/specs.

8. The delivery should have working code, Unit tests, build configuration, the necessary documentation, like Design Documents, API Documents, help etc.