We spend much time in this test, I follow formal development process to prepare maven setting, test case, coding style, design pattern, design documentation, refactoring. Also, I build up a git repository in github and commit my source code, you can checkout this test project from <https://github.com/zentai/Demo> to review my commit log and verify my programming practice.

I would like to show all mine programming sense and develop knowledge to you, not just language skill in this test. Therefore, I spend much time to make sure all the source code, document, development process as close as production level quality. I wish this can make some bonus for me ;)

**Github clone command:**

git clone [git@github.com:zentai/Demo.git](mailto:git@github.com:zentai/Demo.git)

**Folder Structure:**

1. Q1\_BASH : Question 1, bash question
2. Q2\_CSS\_HTML : Question 2, css/html/js design
3. Q3\_TCP\_SERVER : Question 3, eclipse project for TCP server.

**Simple Test method:**

1. Run q3.server.reactor.ReactorTCPServer
2. Run q3.server.reactor.client.SimpleClient

**Test data:**

1. term = "passwd";
2. definition = "Allows you to change your password. \_" + Math.random();

**JUnit Testcase**

1. your\_path\_to\_project/src/test/java

**Design Consider:**

Our structure design by requirement list, we split the requirement and apply to various components. I remark the requirement and design consider in class diagram, please follow the class diagram to understanding the component and design purpose. (you can download jpg or original staruml from email attachment)