# **Developer Test**

When you complete the test, If you are using git to management your source code, please send me your git link. If not, you can compress your source code into .zip .tar or .7z and send email to [nut.t@g-able.com](mailto:nut.t@g-able.com) or upload to google drive and share the link file to me.

**REQUIREMENT**

* Create web application for managing inventory of products in each branch of the headquarters
* The PRODUCT is contains: ID, NAME, DETAIL, and PRICE
* Create form for collecting and managing the data (Product, Branch, Inventory, and whatever upon your idea)
* Display the data (UI whatever upon your idea) on web view
* Create report for displaying the data

**HOW TO EARN POINT [100+50]**

* [20] Database
  + [15/15] Well design
  + [5/5] brilliant idea
* [20] Frontend
  + [5/5] Using frontend framework such as: angular, reactjs, vuejs and so on
  + [5/5] Using frontend css framework such as: bootstrap, foundation
  + [5/5] Well frontend code structure
  + [5/5] Create frontend with UI unit test
* [30] Backend
  + [10] Database layer
    - [5/10] Connect database using hibernate
    - [10/10] Connect database using Spring Data, or another library with well design pattern
    - [10/10] Connect database using custom code with well design pattern
  + [10/10] Service layer
  + [5] Presentation layer
    - [3/5] Display data on webpage
    - [5/5] Display data on webpage with restful service
  + [5/5] Creating backend with unit test
* [15] Report: Extra points
  + [5/5] Using jasper for creating a simple report
  + [10/10] Using jasper for creating a complex report
  + Note: You can use another report library
* [5+50] Other: Extra points
  + [5/5] Well manage source code with git (If you using git to manage your source code, please capture your branch network and attach with the code)
  + [+] Add more idea to the web application
    - [5] Frontend: Add form validation
    - [5] Backend: Add service verification
    - [5] Using advanced css script such as: less, sass
    - [5] Using 3rd party worldwide service such as: facebook, google, twitter, and so on
    - [10] Overall: cover all features: create, update, delete, and display
    - [20] Using advanced techniques

**PROJECT STRUCTURE**

You can use this project structure (attachment file) or design your own project code structure. You also can separate frontend and backend independently.

