Jhipster - document

# Prequisite

Following application should be installed by steps bellow:

1. Java SDK 1.8, including setup JAVA\_HOME
2. Git over setup exe file
3. Mysql over exe to setup database. Including worldbeck tools
4. Note JS
5. Install Yarn from noteJS – **npm install -g yarn**
6. Install bower from noteJS – **npm install -g bower**
7. Install gulp-cli from notejs – **npm install -g gulp-cli**
8. Install yo from note js – **npm install -g yo**
9. Install generator-jhipster from note js – **npm install -g generator-jhipster**
10. Install liquibase by zip packet download, then put this location into path system variable
11. After done, let check all by following command:
    1. **Npm –version**
    2. **Bower –version**
    3. **Gulp –version**
    4. **Yo –version**
    5. **Jhipster –version**
    6. **Liquibase –version**
12. Download eclipse oxygen: adding jhipster from market and add STS from <https://spring.io/tools/sts/all>

# How to create an JHipster application

## Using simple command line

Open command line then creates application folder by **mkdir [folder\_name]**

Go inside this folder by cd **[folder\_name]**

User this command to create new JHipster application by **yo jhipster**

Note that without yo, application may get [blank page issue](https://github.com/jhipster/generator-jhipster/issues/4466) although create and build successful.

After create process is done, open **[folder\_name]/src/main/resources/config/application-dev.yml** find the db configuration line to add mysql credentials.

Create MySQL Schema as the dbname in connection line: url: jdbc:mysql://localhost:3306/**JHipsterHi**?useUnicode=true&characterEncoding=utf8&useSSL=false

After that, go back to command line windows then type nvmw to compiler and deploy this app.

After success then use <http://localhost:8080> to access to application.

Liquibase – document

# Download and install

Download and install document from <http://www.liquibase.org/> step by step tutorials in <http://shengwangi.blogspot.sg/2016/04/liquibase-helloworld-example.html>

Liquibase is database changes management tool. It help to desire database changes in xml file.

## Basic concept

Each database change is grouped in to changeset of changelog file. When run liquibase in the first time, it creates in to database two table are databasechangelog and databasechangeloglock.

## How to run liquibase

Download liquibase, unpack into harddrive, execute liquibase or liquibase.bat file. Download database jdbc driver to local disk.

Run liquibase using maven by change porm file, add liquibase-maven-plugin

Liquibase.properties to store all connection parammeter.

ChangeLog file is xml format

Maven/Gradle – Document

# Introduce

Maven is a automation build tool for java, this is repacement for ant. Maven addresses two aspects of build ding soffware :

* Describle how software is built.
* Describle how it’s dependencies.

Based of the concept of project object model (POM). Maven can manage project’s build, reporting and documentation from a central piece of information.

# Installing Apache Maven

Ensure JAVA\_HOME environment variable is defined.

Extract distibution archive in any directory. Set Path environment was updated this localtion bin folder.

Confirm with mvn –v in a new shell, result should be display.

# Elcipse IDE – M2Eclipse

M2Eclipse is the official Eclipse project for Maven integration for the Eclipse IDE.

Features include:

Launching Maven builds from within Eclipse

Dependency management for Eclipse build path based on Maven’s pom.xml

Resolving Maven dependencies from the Eclipse workspace without installing to local Maven repository

Automatic downloading of the required dependencies and sources from the remote Maven repositories

Wizards for creating new Maven projects, pom.xml and to enable Maven support on existing projects

Quick search for dependencies in remote Maven repositories

Quick fixes in the Java editor for looking up required dependencies/jars by the class or package name

Integration with other Eclipse tools, such as WTP, AJDT, Mylyn, Subclipse and others.

M2E dynamically integrates with your Maven projects with Eclipse while you make changes in the IDE. As you change dependencies, or configurations of Maven plugins in your POMs M2E, will synchronize the Eclipse workspace with those changes.

* How to create task to (create jhipster entity) change log?? – actually don’t understand much about this??

Spring boot

# Introduce & system requirement

<https://docs.spring.io/spring-boot/docs/current-SNAPSHOT/reference/htmlsingle/>

or

<https://docs.spring.io/spring-boot/docs/2.0.0.BUILD-SNAPSHOT/reference/pdf/spring-boot-reference.pdf>

<https://codeaholicguy.com/category/chuyen-coding/java/spring/>

tutorials

Spring JPA – Document

How to do custom query?

Postman – Document

How to test API directly?

How to expose API ?

How front-end call API?

How to work with HTTP header/param?

GIT

# Installation, Configuration

Download and install from this source <https://git-scm.com/downloads>

Configuration with following information

$git config –global user.name “hungdangtung”

$git config –global user.email [hung.dangtung@yahoo.com.vn](mailto:hung.dangtung@yahoo.com.vn)

# How to use

## Importing a new project

Assume this project stay inside a folder, open command prompt go to this folder. Using this command to initial works.

$git init

After initialize, using this command to take a snapshot of contexts of all files under this folder

$git add .

After take this snapshot, using following command to commit this content to git.

$git commit

## Using Git for collaboration

Using this to get code from a repository from git.

$git clone <repository link>

Note that: this comand will download all code in to a folder which name is the name of this repository.

After editting the files into this folder. Using this command to commit this.

$git commit –a

If new files were added, using this command again to added those in to folder

$git add . (or $git add <file name>)

Then using commit to commit those file.

To update files in a repository using

$git pull [Repository name] or just execute $git pull inside this repository folder.