**CS/BS 全栈开发 Modern web application development**

Note: could not delete file “ because the path is too long?” (because npm nests dependencies)

**template> npm install –g rimraf**

**template> rimraf node\_modules**

1. **Deployd**

生成RESTful API based on database

<http://deployd.com/>

1. 创建web app框架

>dpd create sportstore & cd sportstore\public

2) 创建angular框架,写代码，构建

public>yo angular

public>grunt serve:dist

1. 启动web app

sportstore> dpd –p 5500 app.apd

localhost:5500\dist\index.html

1. **Jhipster 全栈开发 (Angularjs + Sprint boot )**

pre-condition: node, git

**set sys env: npm; git\bin**

// install tools for frontend

>npm install –g yo bower grunt-cli

若无法下载，则设置proxy

**> npm config set proxy** [**http://165.225.96.34:10015**](http://165.225.96.34:10015)

**> npm config set https-proxy** [**http://165.225.96.34:10015**](http://165.225.96.34:10015)

// install jhipster

Template > **node --version && npm --version && git –version**

Template > **yo --version && bower --version && grunt --version**

Template > npm install –g generator-jhipster

Template > yo jhipster

What is the base name of your application? sample

What is your default Java package name” com.philips.sample

Do you want to use Java 8? Yes

Which type of authentication would you like to use? HTTP Session Authentication (stateful,…)

Which type of database would you like to use? SQL

Which production database would you like to use? PostgreSQL

Which development database would like to use? PostgreSQL

Do you want to use Hibernate 2nd level cache? Yes, with encache (local cache, for a single node)

Do you want to use clustered HTTP sessions? No

Do you want to use WebSockets? No

Would you like to use Maven or Gradle for building the backend? Gradle

Would you like to use Grunt or Gulp.js for building the frontend? Grunt

Would you like to use the Compass CSS Authoring Framework? Yes

pdAmin3 for PostgreSQL

if fails, >npm install & bower install

// run live-reload

Template > grunt

Features:

angular, bootstrap, bower, karma, grunt 都可以正常使用

Note:

1. bower代理：

若bower\_package无法找到，需要翻墙下载，设置bower代理，然后>bower install

set env for设置bower代理

**HTTP\_PROXY =** [**http://165.225.96.34:10015**](http://165.225.96.34:10015)

**HTTPS\_PROXY =** [**http://165.225.96.34:10015**](http://165.225.96.34:10015)

1. 若sass无法编译，需要安装sass.js, 先安装ruby,然后>gem install sass

// run server

Template > gradlew

access to web exploer: <http://localhost:8080>

Features:

1. Spring boot (jpa, mongodb, cassandra, Spring security, spring mvc REST, Thymeleaf(server-side templates), monitoring), liquibase, Caching(Encache, HazelCast, Hibernate 2nd level cache or Spring Caching abstraction), cloud deployment
2. Template > yo jhipster:entity foo

Template > yo jhipster:service user

1. Spring Security includes Ajax endpoints, secured remember-me, audits…

Note:

若无法连上数据库服务器，启动数据库服务器

若出现下载mongodb失败，是因为测试使用内置mondodb服务器，而下载需要设置代理（目前代码写死，或者可以配置我还没找到），只需在build.gradle注释de.flapdoodle.embed.mongo,这样spring boot就不会自动加载和注入内置mongodb服务器）

>yo jhipster:entity author

自动生成如下

//配置文件

.jhipster/Author.json

//后台

src/main/java/com.philips.bookstore/domain/Author

src/main/java/com.philips.bookstore/repository/AuthorRepository

src/main/java/com.philips.bookstore/web/AuthorResource

//数据库

src/main/resources/config/liquibase/master.xml

<include file="classpath:config/liquibase/changelog/20160101093953\_added\_entity\_Author.xml" relativeToChangelogFile="false"/>

src/main/resources/config/liquibase/changelog/20160101093953\_added\_entity\_Author.xml

pgAdmin III -> PostgreSQL 9.5 (localhost:5432) -> bookstore -> author

//前端

src/main/webapp/scripts/app/entities/author/…

src/main/webapp/scripts/components/entities/author/…

src/main/webapp/i18n/en/author.json

src/main/webapp/i18n/fr/author.json

//测试

src/test/java/com.philips.bookstore/web/rest/AthorResourceIntTest.java

src/test/javascript/spec/app/entities/author/author-detail.controller.spec.js

src/test/gatling/simlations/AuthorGatlingTest.scala

1. **angular-fullstack (MongoDB, ExpressJS, AngularJS, NodeJS)**

// install meanjs

project-parent-directory> **mkdir template && cd template**

template > **node --version && npm --version && git --version**

template > **yo --version && bower --version && grunt --version**

template> **npm install –g generator-angular-fullstack**

template> yo angular-fullstack

Note: 若出现error, ‘rm’ is not internal command, do in the following way:

install git -> right clicked inside project folder -> git bash here -> yo meanjs

// run mongod

>mongod –dbpath ./data

1. **MEAN全栈开发 (MongoDB, ExpressJS, AngularJS, NodeJS)**

// install meanjs

project-parent-directory> **mkdir template && cd template**

template > **node --version && npm --version && git --version**

template > **yo --version && bower --version && grunt --version**

template> **npm install –g generator-meanjs**

template> yo meanjs

Note: 若出现error, ‘rm’ is not internal command, do in the following way:

install git -> right clicked inside project folder -> git bash here -> yo meanjs