1. **REQUIREMENTS**

+ jdk1.8.0\_172 (do not use JDK 10 or JDK 7)

+ IntelliJ IDEA IDE

+ NodeJS 8+

+ Apache Tomcat 9

+ Neo4J 3.4.1 Community Edition

**Notes:** **Neo4J 3.4.1 Community Edition:** https://go.neo4j.com/download-thanks.html?edition=community&release=3.4.1&flavour=winzip&\_ga=2.162129532.1123299689.1530245987-556256678.1530245987

1. **QUICK STARTED**

+ Start MongoDB service using command:

**"D:\MongoDB\Server\3.6\bin\mongod.exe" --dbpath "C:\database"**

Where "D:\MongoDB\Server\3.6\bin\mongod.exe" is path to monogod.exe located in MongoDB installation directory while "C:\database" is path to database server directory.

+ Browser to db\_script folder, and run command:

**Npm install**

Then:

**Npm start**

For more information, please look into file index.js

+ Start Neo4J service:

Using cmd to browse to the uncompressed Neo4J folder which was download in the first section:

**Cd C:\Users\TuanNH\Desktop\neo4j-community-3.4.1**  
Then run the following command:

**bin\neo4j.bat console**

Go to “localhost:7474” on the browser then configure the server with the same configuration in Config.java in com.swd.config

+ Then start IntelliJ IDEA and import Maven dependencies

+ Configure apache tomcat

+ Run server

1. **PROJECT STRUCTURE**

+ src

+ main

+ java

+ com.swd [package]

+ config [contains config class for db or const variable]

+ db [contains databases interaction class]

+ documents [documents database interaction only]

+ models [database manipulation class]

+ entities [document entities]

+ relationships [relationships database interaction only]

+ models [database manipulation class]

+ entities [node entities and relationship entities]

+ security [contains config for Spring Security]

+ utilities [Utilities class for storage services,..]

+ controllers [contains controllers to handle request]

+ com.demo [demo package] [only used for reference]

+ webapp

+ uploads [contains all uploaded files]

+ resources [contains resources]

+ swd

+ js [contains javascript files used in .jsp]

+ css [contains css files used in .jsp]

+ demo [demo resources folder] [only used for reference]

+ WEB-INF

+ jsp [contains views]

+ dispatcher-servlet.xml

+ web.xml

+ web-config.xml

+ web-security.xml

**Notes:** yellow: folder

green: file

@Opinion

+ uploads folder structure:

+ uploads

+ accounts

+ {account\_id}

+ posts

+ {post\_id}

1. **PROJECT CONFIGURATION[NOT REQUIRED]**

**Modify 2 files:** web-config.xml and web-security.xml to match the environment and project structure

**Eg:** in web-config.xml, change the base package scan path