UCAN Installation guide and execution steps:

Unified communicaation for assisting novice. A discussion forum to assist novice in solving their social problems. Application developed using Spring-Boot, postgres database, maven as built tool and AngularJS. Project follows the microservices based architecture.

Installations:

1. Java Jdk version 8

2. Maven

3. Postgres database.

4. Postman(optional)

5. Pgadmin (optional)

Installation steps for Debian(Ubuntu) :

1. Java (Oracle JDK 8)

1. sudo spt-get update.

2. Install jdk 8 : sudo apt-get install oracle-java8-installer.

3. Check the version of installed jdk : javac -version

2. Maven :

1. Installation command : sudo apt-get install maven.

2. Check version : mvn -v

3. Postgresql :

* Specification:

Database name : ucan

Database username : ucan

Database password : ucan

* Installation

1. sudo apt-get update

2. Install postgresql : sudo apt-get install postgresql postgresql-contrib

* Enter Postgres command prompt:

1. Switch to postgres user : $ sudo -i -u postgres

2. Access postgres prompt: $ psql

3. Exit from postgres prompt using \q: postgres=# \q

* Create postgres user:

1. Create user : $ sudo -u postgres createuser –interactive -P

Output:

Enter name of role to add: ucan

Enter password : ucan

Shall the new role be a superuser? (y/n) y

2. Create database : $ sudo -u postgres createdb dbname ( ucan )

Installation steps for Debian(Ubuntu) :

1. Java (Oracle JDK 8)

1. Download the JDK 8 from http://www.oracle.com/technetwork/java/javase/downloads/index.html

2. Install the jdk by double clicking installer and follow the steps.

3. Configure JDK and environment variables :

1. **MyComputer** -> **properties** -> **Advanced System Settings** -> **Environment variables** -> **click new button.**

**2. add JAVA\_HOME** in variable name and path of maven in variable value**.**

**3. Add path variables (path of bin file) follow above two steps.**

4. Verify maven : $ javac -version

2. Maven :

1. Download maven from http://maven.apache.org/download.cgi

2. Add environment variable :

1. **MyComputer** -> **properties** -> **Advanced System Settings** -> **Environment variables** -> **click new button.**
2. **add MAVEN\_HOME** in variable name and path of maven in variable value**.**

3. Add path variables (path of bin file) follow above two steps.

4. Verify maven : $ mvn -version

3. Postgresql :

* Specification:

Database name : ucan

Database username : ucan

Database password : ucan

* Installation

Download and run the [Windows PostgreSQL one click installer](http://www.enterprisedb.com/products-services-training/pgdownload" \l "windows).

* Install PostgreSQL as a Windows Service.
* Keep track of the **PostgreSQL Windows Service** account name and password. LabKey Server doesn't really care what this password is set to, but we need to ask for it so that we can pass it along to the PostgreSQL installer.
* Keep track of the **database superuser** name and password. You'll need these to configure LabKey Server. LabKey Server uses this password to authenticate itself to PostgreSQL.
* Select the PL/pgsql procedural language for installation when prompted by the installer.
* If you have chosen to install pgAdminIII, enable the Adminpack contrib module when prompted by the installer.

List of modules and associated ports :

|  |  |  |  |
| --- | --- | --- | --- |
| Sr. No | Module | Name | Port |
| 1. | Backend Parent ( dependency management and build) | backendParent | NA |
| 2. | Shared Module (Common entities) | sharedLib | NA |
| 3. | User management | userMgmt | 8080 |
| 4. | Topic Management | topicMgmt | 8081 |
| 5. | Question Management | questionMgmt | 8082 |
| 6. | Answer Management | answerMgmt | 8083 |
| 7. | Frontend module | ucan\_frontend | 8084 |
| 8. | Review Management | reviewMgmt | 8085 |
| 9. | Negotiation for discussion time | Negotiation | 8089 |

Build and execute the project:

1. change directory : $ cd UCAN1.0

2. To build change directory to backend parent : $ cd backendParent

3. Install dependencies using maven : $ mvn install

4. Build Project : $ mvn clean compile

5. Move back to parent directory.

We need to execute each module on parrallel command prompt.

6. Inorder to execute move to each module and excute command : $ mvn spring-boot:run

In order to access the project using browser, hit the following URL in browser

(URL to access frontend):

<http://localhost:8084/>

* API urls to access resources is mentioned in file UCAN-API.docx