1. **Required Software to be installed to run the REST APIs**
2. Tomcat/STS
   1. This will be used to run your REST APIs.
   2. Preferably use the STS as we would need to make some configurations in the application.properties
3. MySQL
   1. The default RDBMS selected for this project is MySQL
4. JDK Version 8+
5. Maven
6. Editor similar to VS Code
   1. This will be used to run your frontend Next.js application
7. Node.js
8. Yarn/NPM
9. **Running your Spring Boot App using STS**
   1. Create a database in mysql with this query
      1. **create database idea\_portal**
   2. Import the project from the File System.
   3. In the application.properties under src/main/resources change the user name and password as per your mysql configurations.
      1. **spring.datasource.username=<Your\_MySQL User Name>**
      2. **spring.datasource.password=<Your\_MySQL\_Password>**
   4. Change the server port to 8081 (If any other is specified)
      1. **server.port=8081**
   5. Run it as a Spring Boot App
   6. It should create the schema structure with 9 tables
      1. User
      2. Roles
      3. Themes
      4. Likes
      5. Ideas
      6. Comments
      7. participation\_responses
      8. password\_log
      9. password\_reset\_token
   7. Execute the following queries to setup your roles table
      1. insert into roles values(1, 'Client Partner');
      2. insert into roles values(2, 'Product Manager');
      3. insert into roles values(3, 'Participant')

**Running your Spring Boot App with Tomcat**

Create a database in mysql with this query

* + - **create database idea\_portal**
* In the application.properties under src/main/resources change the user name and password as per your mysql configurations.
  + **spring.datasource.username=<Your\_MySQL\_UserName> spring.datasource.password=<Your\_MySQL\_Password>**
  + Change the server port to 8081 (If any other is specified)
    - **server.port=8081**
* Run the maven command to generate the .war file
* Place this .war file in the webapps folder of your tomcat directory
* Open a command prompt in the bin folder of the tomcat and execute
  + **startup.bat**
  + This will run your Spring Boot App
  + It should create the schema structure with 9 tables
    - User
    - Roles
    - Themes
    - Likes
    - Ideas
    - Comments
    - participation\_responses
    - password\_log
    - password\_reset\_token
  + Execute the following queries to setup your roles table
    - insert into roles values(1, 'Client Partner');
    - insert into roles values(2, 'Product Manager');
    - insert into roles values(3, 'Participant');

1. **Executing your frontend NEXT.js application**
   1. Import project in your editor
   2. Open terminal and execute
      1. npm install/ yarn install only if you’re executing for the first time.
      2. Now execute npm run dev.
      3. This will start the app on localhost:3000