

<b>Setup</b>	
<b>Github</b>	
See wiki: Github.pdf	
<b>Database</b>	
Install MySQL	<u>Install MySQL Community Edition</u> Link: <a href="http://dev.mysql.com/downloads/">http://dev.mysql.com/downloads/</a> Click: MySQL Community Server Version: 5.7.17 (as of 1/2/2017) - Accept all the default configuration during installation - Some of the components may fail to install. Make sure you have the following installed successfully: MySQL Server, MySQL Workbench, (Connector/ODBC?) - MySQL Root Password: choose a password and remember it
Run the DDL script	Launch MySQL Workbench Run the script located in the repository: \Documentation\Database\C4SG.sql Refresh Schemas. You will see c4sg schema created. Tables are loaded with dummy data.
<b>Backend</b>	
Setup in IDE	Install your preferred IDE: Eclipse, STS, IntelliJ Idea, etc Import C4SGSvc source code Run the application in IDE Make sure MySQL is running
Test Backend	Test JSON API in browser: <a href="http://localhost:8080/api/project/all">http://localhost:8080/api/project/all</a> The API show returns JSON data
Setup in IDE	<u><b>Download Java JDK</b></u> Link: <a href="http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html">http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html</a> Version: 8u112 ( as of 1/2/2017) Accept all the default configuration during installation <u><b>Download Eclipse</b></u> Link: <a href="https://eclipse.org/downloads/">https://eclipse.org/downloads/</a> Version: Neon (as of 1/2/2017) Type: Eclipse IDE for Java EE Developers <u><b>Launch Eclipse</b></u> Select a directory as workspace: Click "browse" to create a new folder as your workspace

Setup in IDE. Eclipse specific	<p><b><u>Install Plugin</u></b>          Help -&gt; Eclipse Marketplace          Install Plugin: Spring Tool Suite (STS) for Eclipse 3.8.3.RELEASE</p> <p><b><u>Import project</u></b>          File -&gt; Import -&gt; General -&gt; Projects from Folder or Archive          Import Source: C4SGSvc          Import as: Maven          Verify there is no warnings or errors</p> <p><b><u>Run application</u></b>          Right click on project: C4SGSvc, Run as: Spring Boot App          Verify Last line in console: org.c4sg.C4SgApplication : Started C4SgApplication in 9.852 seconds</p>
<b>Frontend</b>	
Install IDE	Install your preferred IDE: Sublime, WebStorm, etc
Install Node.js	<p>We install Node.js in order to get npm package manager from Node.js          Link: <a href="https://nodejs.org/">https://nodejs.org/</a>          Version: v6.9.2 LTS (as of 1/2/2017)          Accept all the default configuration during installation</p>
Install npm packages	<p>1. Click Windows Start button, launch "Node.js command prompt"          2. Run the commands:          &gt; cd &lt;path_to_local_repository&gt;\C4SGWeb          &gt; npm install</p> <p>A new folder is created under C4SGWeb: \node_modules</p>
Test Frontend	<p>Run the command:          &gt; npm start</p> <p>The application is launched in browser: http://localhost:3000/          Click Volunteer - &gt; Projects, verify that you can see dummy projects retrieved from database</p>