ReadMe

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# Installation Guide

## Software requirements

* A MySQL server (the project was developed using a MAMP server to hold the MySQL database)
* NetBeans IDE with a Glassfish 5.1 server and JPA 2.1 (or equivalent software that can deploy a Java JAX-RS project on said Glassfish server)
* Android Studio IDE (or equivalent software for building and deploying Android Gradle projects)
* Android Emulator running Android SDK of at least 21 (the app was developed and mainly tested on an emulator running SDK 28 but it should work for SDK 21 and up).

## Installation

* A file titled java\_workshop\_db.sql.zip will be included in the project files. This is a zipped, exported SQL file containing the entire definition of the schema used for this project.
* Import that file into your MySQL database
* Depending on the MySQL server unzipping the file may be necessary. Using PHPMyAdmin, for instance, importing a .sql.zip file can be done directly.
* Retrieve the URL of the database on your server, we will need it for setting up the server’s connection to it.
* Load the server project, a folder titled JavaWorkshopProjectServer, into NeatBeans IDE.
* In the services tab of NetBeans, navigate to Databases and right click and press New Connection.
* A MySQL JDBC connectors jar will be supplied in the project files. This jar will be titled mysql-connector-java-8.26.jar.
* Set the new connection type as MySQL (Connector/J driver) and navigate to the jar above for the driver file.
* Follow the wizard entering the URL of the database (schema) and the login credentials to the overarching database of the MySQL server. Make sure to use the port that the MySQL server uses in the URL.
* Edit the persistence.xml file choosing the new connection under JDBC connection, EclipseLink (JPA 2.1) for the Persistence Library and set the Persistence Unit Name to “my\_persistence\_unit”.
* Open the Glassfish folder and add the jar to the libs folder.
* With this, the setup of the database and server should be complete, build the project with dependencies and then run the project. If an error occurs, first try restarting the Glassfish server under Servers section of the Services tab.
* Load the Android project, a folder titled JavaWorkshopProjectClient, into Android Studio.
* Select an Android Emulator as stated above as the deployment target and run the project.
* If for whatever reason if port of the glassfish server isn’t 8080, the before running the project the port in the definition of BASE\_URL in the RetrofitClient class must be changed to the appropriate port.

If for any reason installation of the project fails, please contact me at yonatan.giventer@gmail.com