

## Preconditions:

Maven

Java 1.8

Git Bash

1. Clone API to your PC from git repository;

2. Open `application.properties` file by `src/main/resources` path and change `spring.h2.console.enabled` property to `true`;  
`spring.h2.console.enabled=true`

3. Load root folder, open console here and execute command:

**mvn spring-boot:run**

This will build and up API on Tomcat server on the localhost with 8080 port (by default, but you can change it in `application.properties` in `server.port` property)

Wait for something like this message in your console:

**2019-08-19 13:11:42 INFO 59940 - [main] ua.com.epam.app.App: Started App in 6.829 s.**

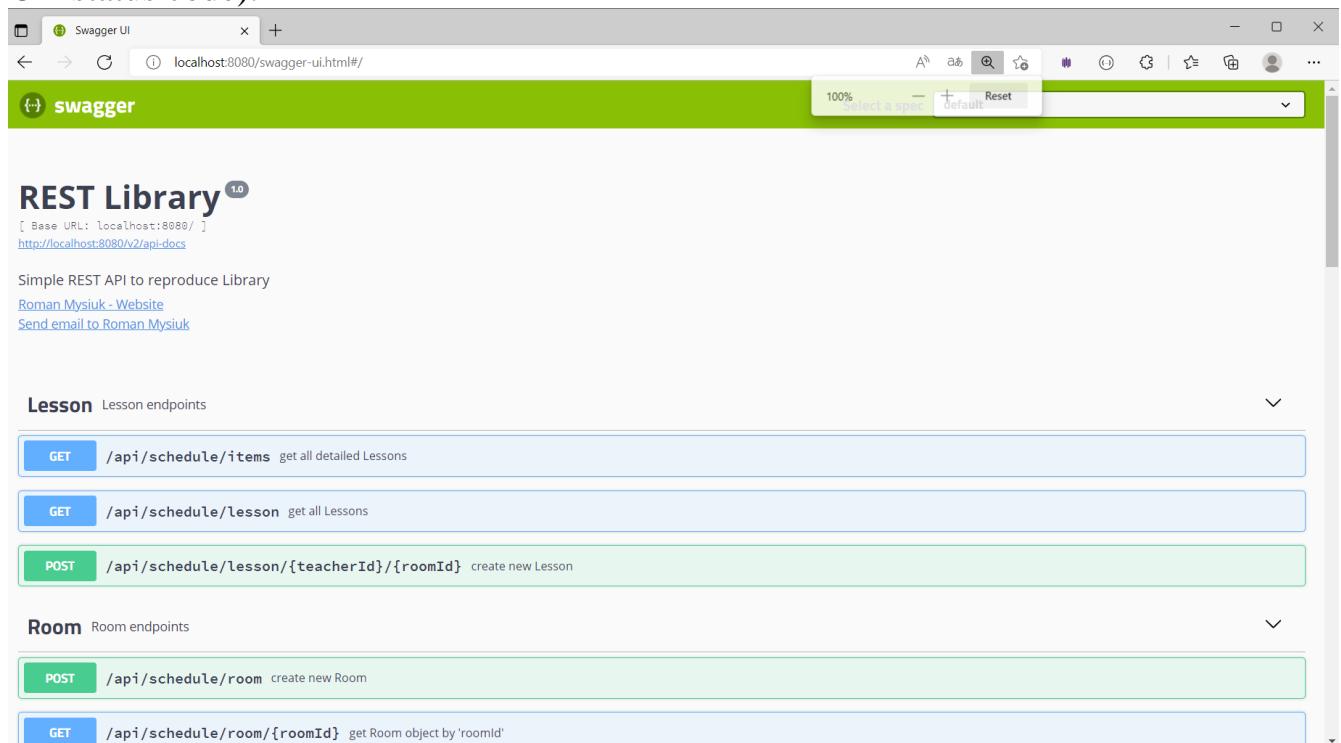
That proof that API was started and ready for work;

3. Swagger will be available here:

<http://localhost:8080/swagger-ui.html>

It is possible that Swagger will not loading after first build. To fix this just open console and press any button on keyboard (e. g. Enter);

Try to make call on some endpoint to verify that everything works OK (just to get 200 OK status code).



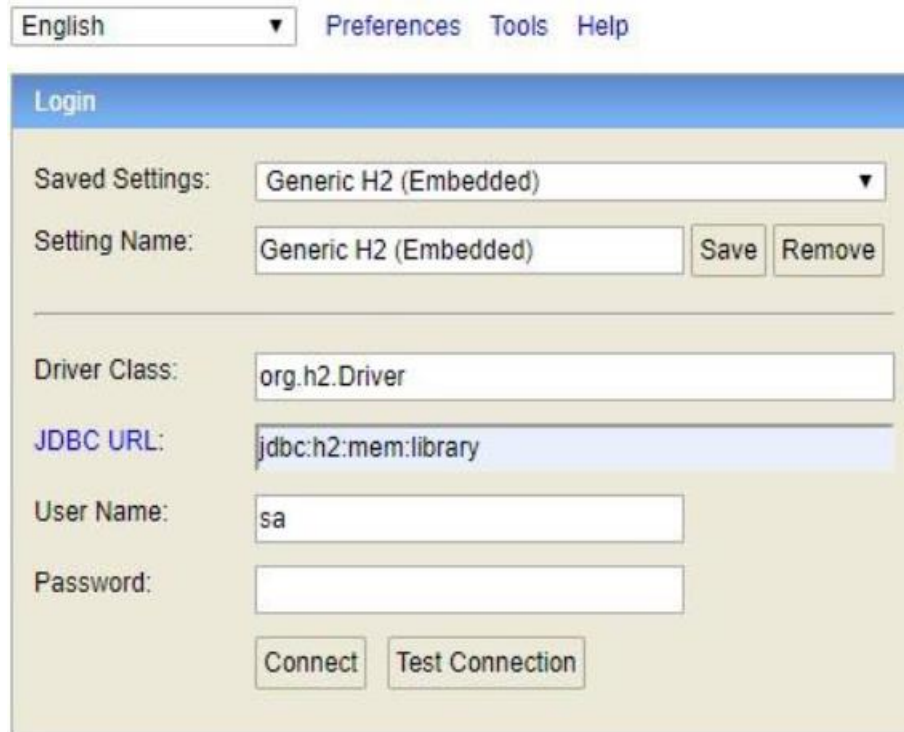
4. REST-library-API application use built in database H2.

You can access to H2 console (something like MySQL Workbench for MySQL database). Database file was created on application compiling stage and locates here: `src/main/resources/db` with name ended on `.mv.db`;

H2 console is available on:

<http://localhost:8080/h2-workbench>

It will load form like this:



The screenshot shows the H2 console Login form. At the top, there is a language dropdown menu set to 'English' and navigation links for 'Preferences', 'Tools', and 'Help'. The main form area has a title bar 'Login'. Below it, there is a 'Saved Settings' dropdown menu showing 'Generic H2 (Embedded)'. Underneath, there is a 'Setting Name' field also containing 'Generic H2 (Embedded)', with 'Save' and 'Remove' buttons to its right. A horizontal line separates this section from the connection configuration fields. These fields include 'Driver Class' with the value 'org.h2.Driver', 'JDBC URL' with the value 'jdbc:h2:mem:library', 'User Name' with the value 'sa', and an empty 'Password' field. At the bottom of the form are two buttons: 'Connect' and 'Test Connection'.

In ``JDBC:URL`` input paste: **jdbc:h2:file:<absolute\_path\_to\_.mv.db\_file>**  
(E. g.: `jdbc:h2:file: C:\REST-library-API\src\main\resources\db\library`)

In ``User Name`` input paste: **sa**

In ``Password`` input paste: **password**

And click ``Connect`` button. After this you will see something like this:

H2 Console

localhost:8080/h2-workbench/login.do?sessionId=45c5e5bcaab7cd811ff7570def4868e9

Max rows: 1000 Auto complete: Off Auto select: On

Run Run Selected Auto complete Clear SQL statement:

SELECT \* FROM LESSON;

SELECT \* FROM LESSON;

ID	DAY_OF_WEEK	LESSON_NUMBER	ROOM_ID	SUBJECT_ID	TEACHER_ID	ROOM_NAME	SECOND_NAME	SUBJECT_NAME
1	1	1	1	2	1	null	null	null
2	1	2	2	1	2	null	null	null

(2 rows, 21 ms)

Edit

