This is a Spring Boot web application for URL shortening service. I have used MySQL db here for demonstration.

Application.properties file under src/main/java/resources can be modified to test with h2 database for verifying the program.

spring.h2.console.enabled=true

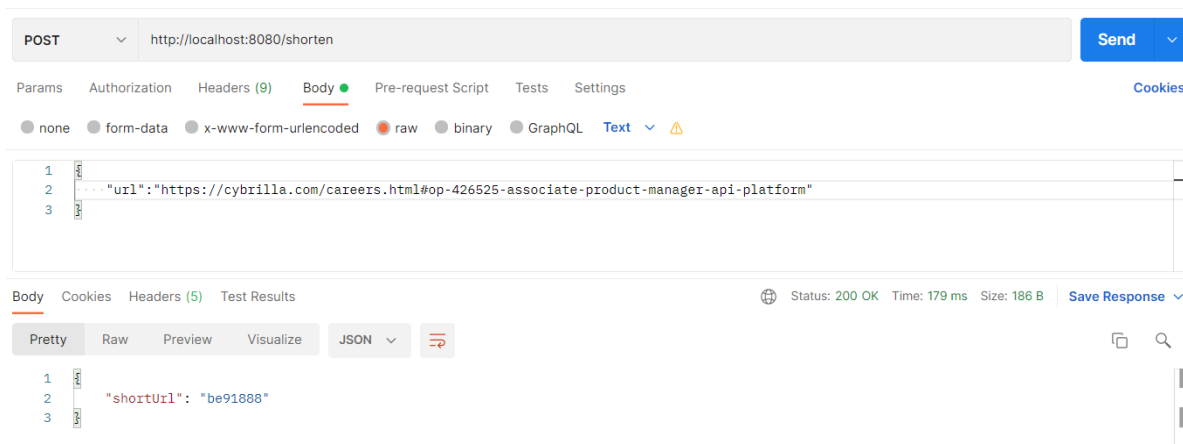spring.h2.console.path=/h2-console
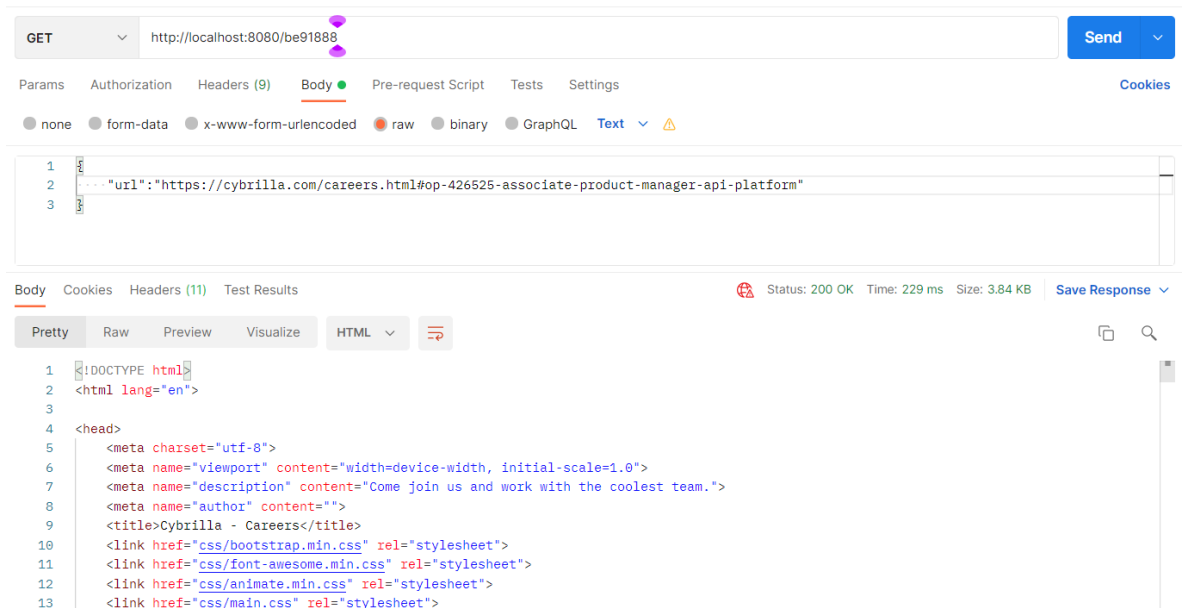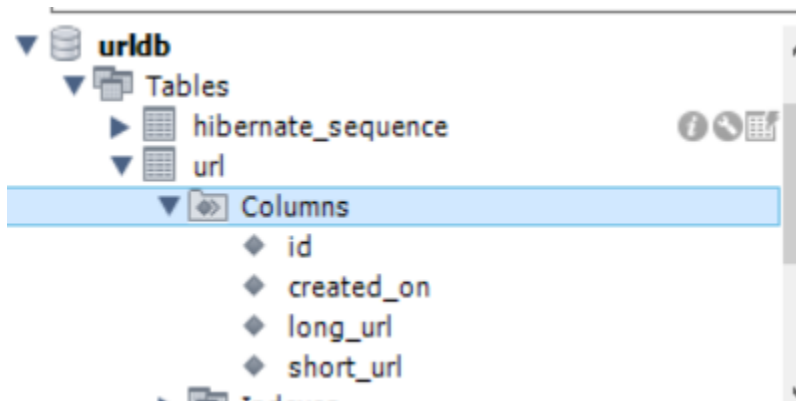

Fig 1:- Post to create the short hash code

Fig 2:- Doing GET operation on the hash obtained from Step 1 (Fig 1) to redirect to original page.

The URL encoding logic is implemented in file "DriverServiceImpl" inside the encodeUrl method.

Path:- src/main/java/services/DriverServiceImpl

using MD5 hashing on string (URL + LocalDateTime.now()) to ensure even if multiple posts to the same url are made, there is a unique code that is generated.

Database schema is shown below :-

Project Structure: --