CS393 - HW2

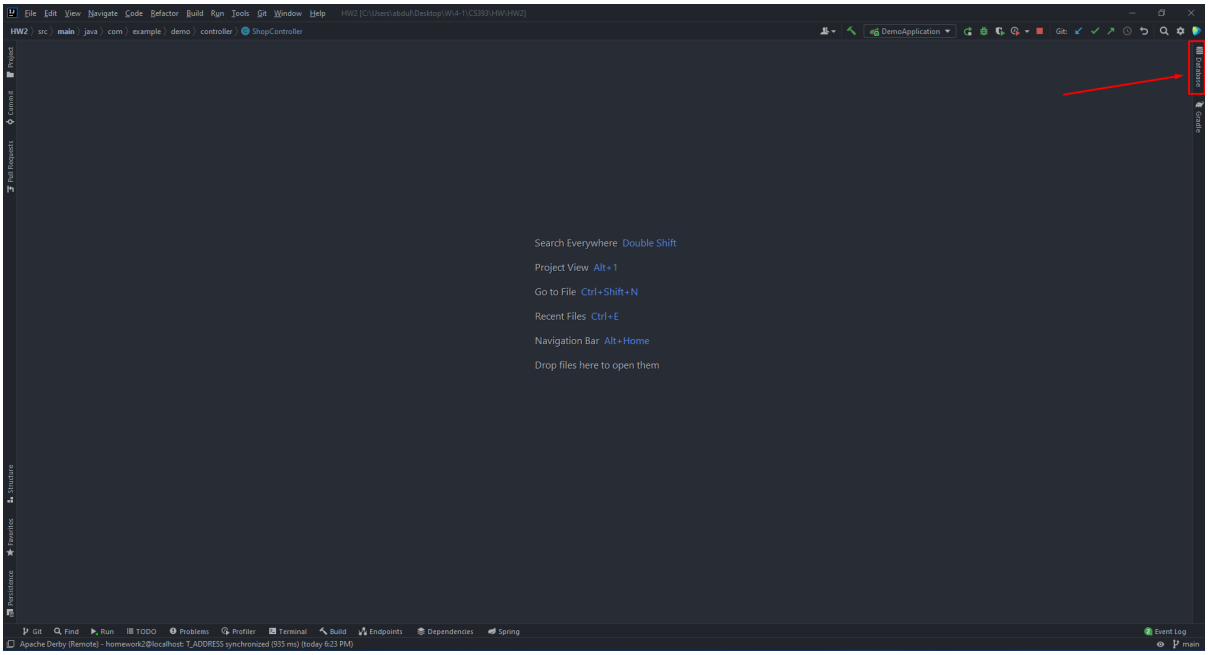
This is the repository for HW2 of CS393 Developing Backend Applications with Spring Framework course given by Esma Meral at Ozyegin University. Code is written by Abdullah Saydemir and will be available after the deadline via this link.

Pre-requisites

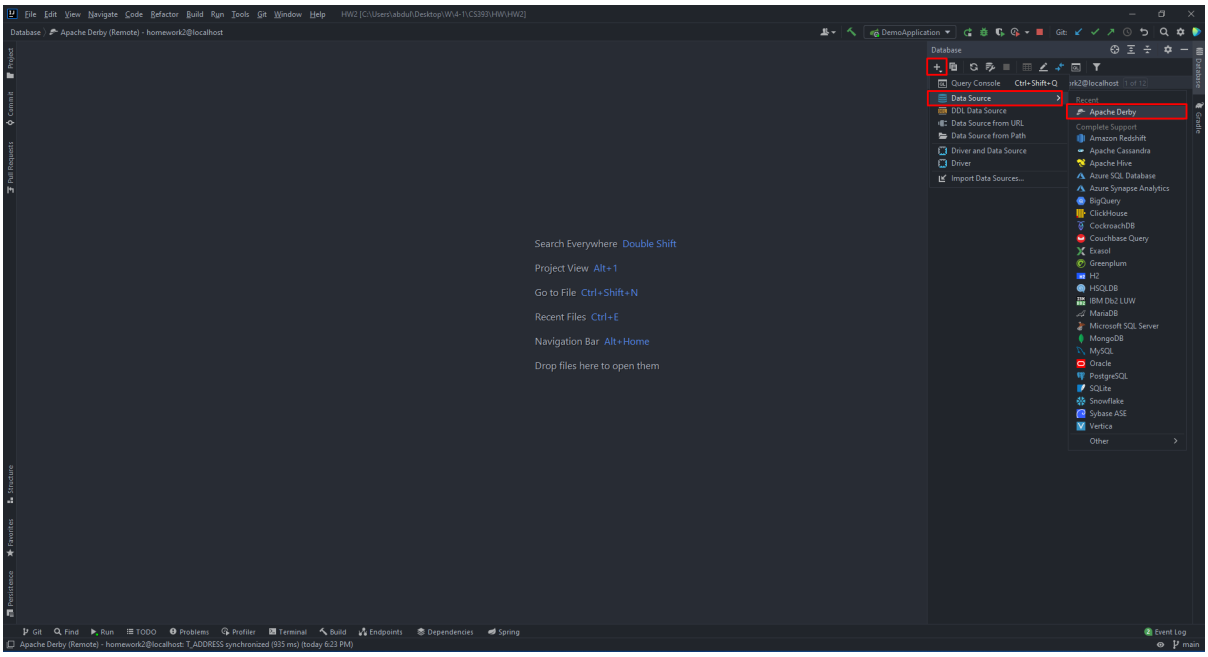
- Java SE 11
- IntelliJ IDEA
- Derby DB v10.15.2.0
  - Download the `db-derby-10.15.2.0-bin.zip` archive (`db-derby-10.15.2.0-bin.tar.gz` if you are using Unix/Linux) from the link above.
  - Run the server by double-clicking on `startNetworkServer.bat` file inside `bin` directory. You can use `.jar` file with the similar name if you downloaded the `.tar.gz` version.
- Postman

Configurations

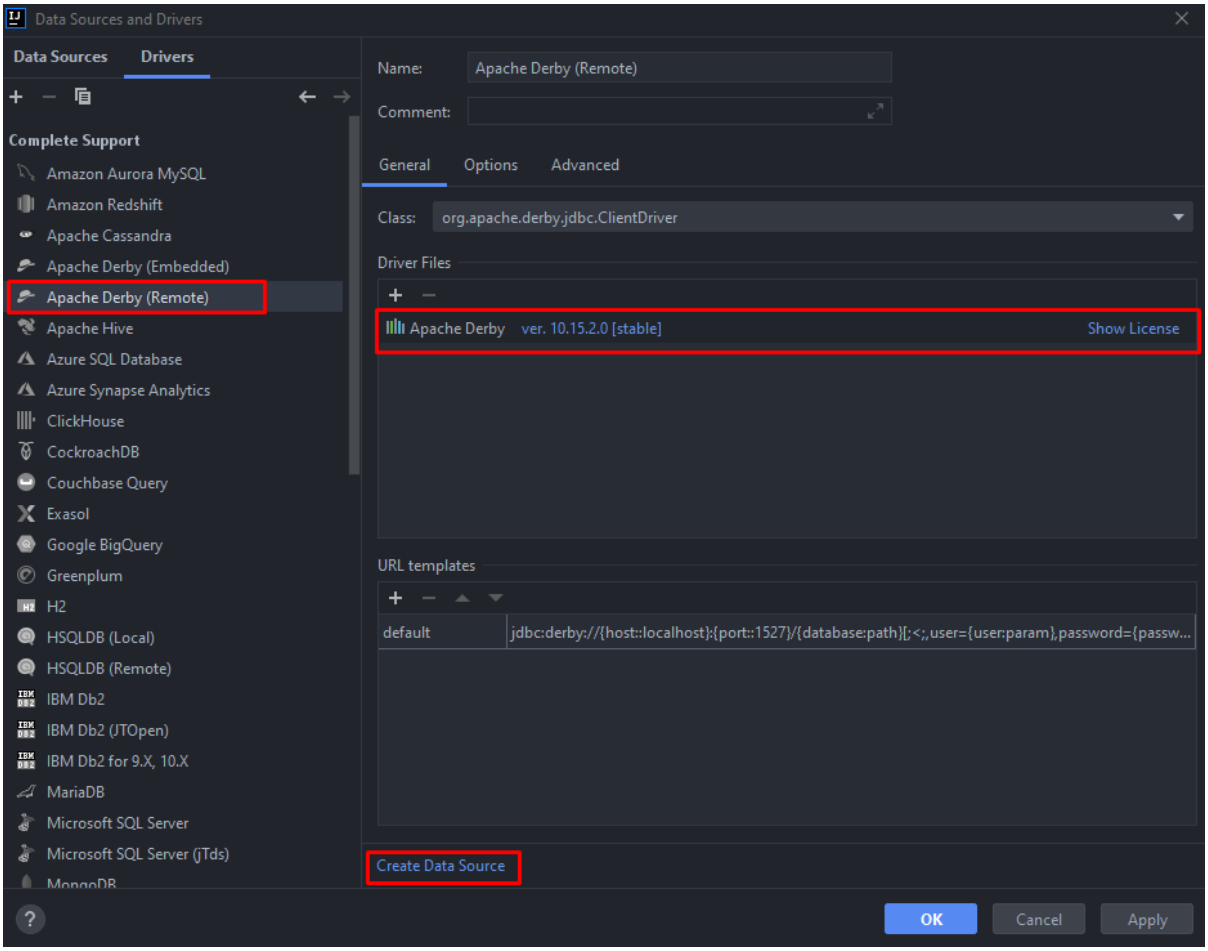
- To connect IntelliJ IDEA to Derby DB:
  - Click `Database` tab in the top-right corner of the IDE.



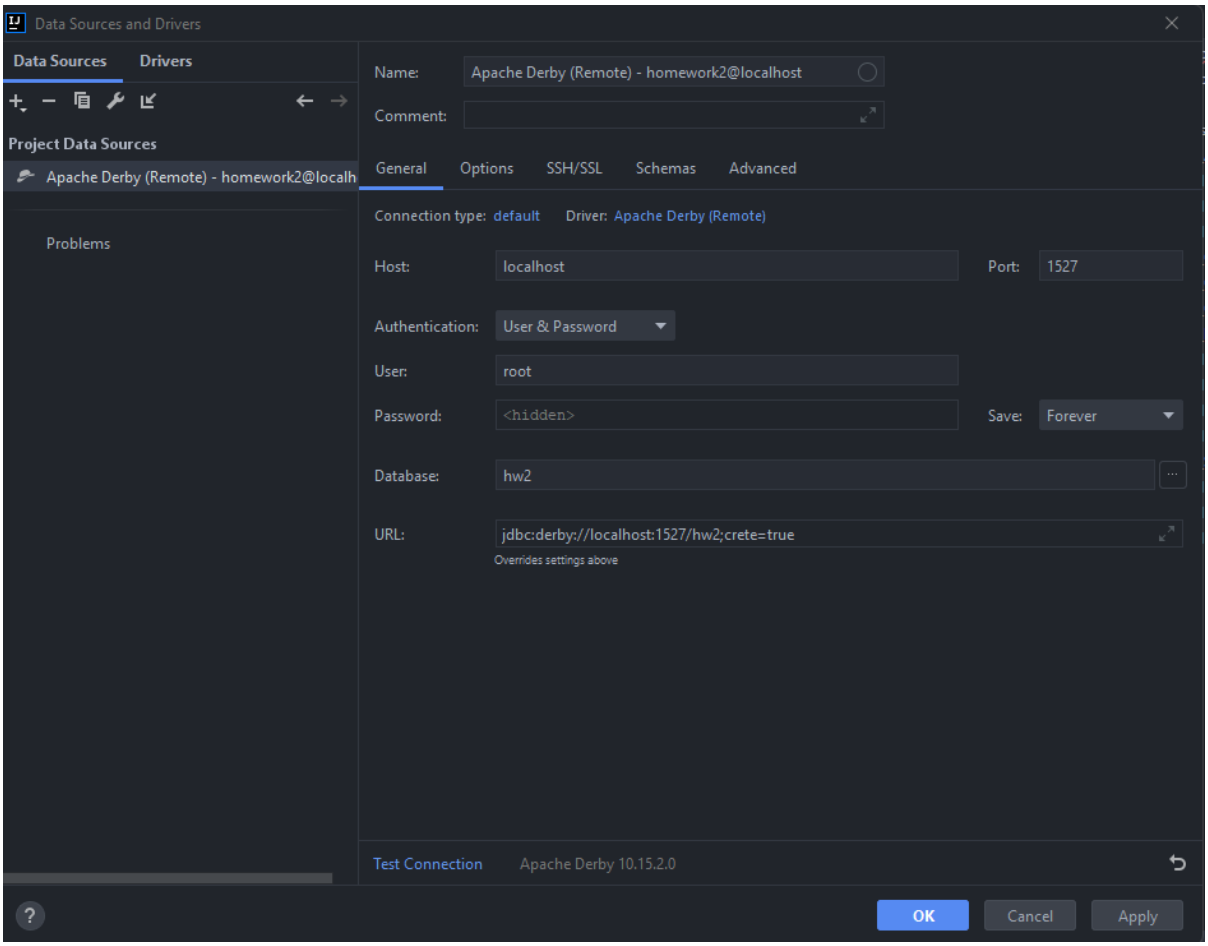
  - Click `+ -> Data Source` and choose `Apache Derby` from the dropdown menu.



- From drivers tab choose `Apache Derby (Remote)` and download the ClientDriver. Then click on `Create Data Source`.



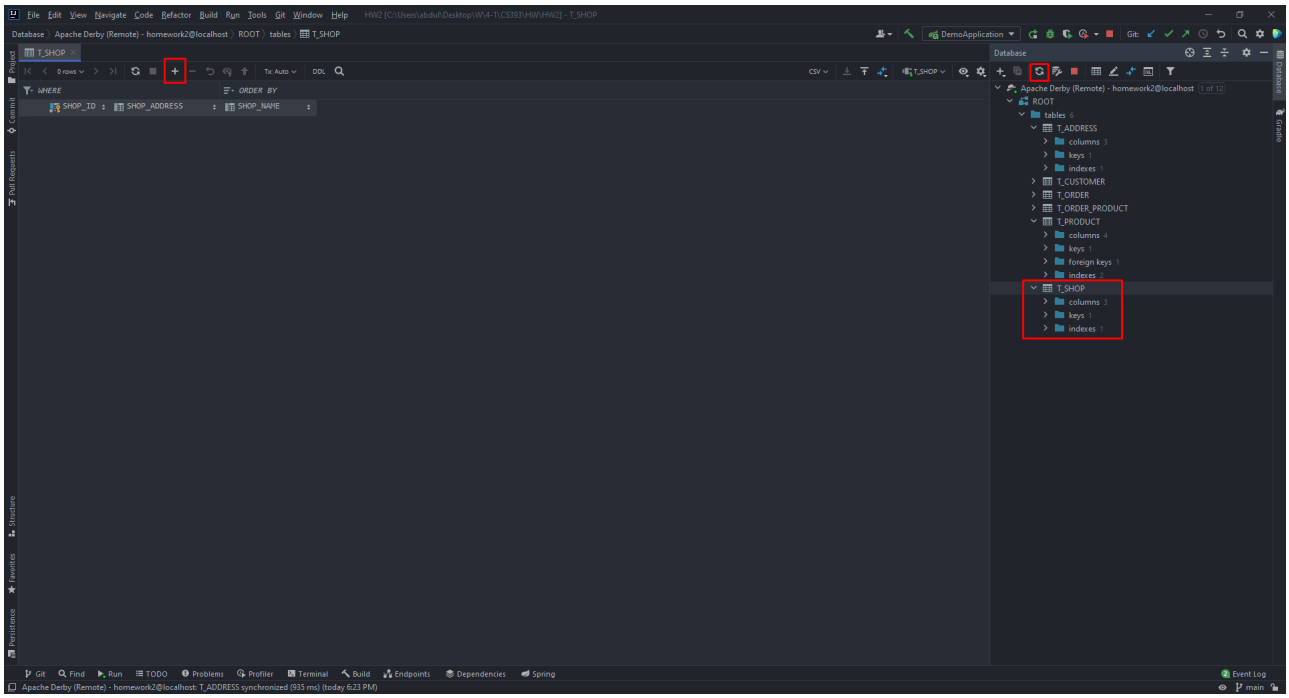
- Adjust the configurations according to below image.



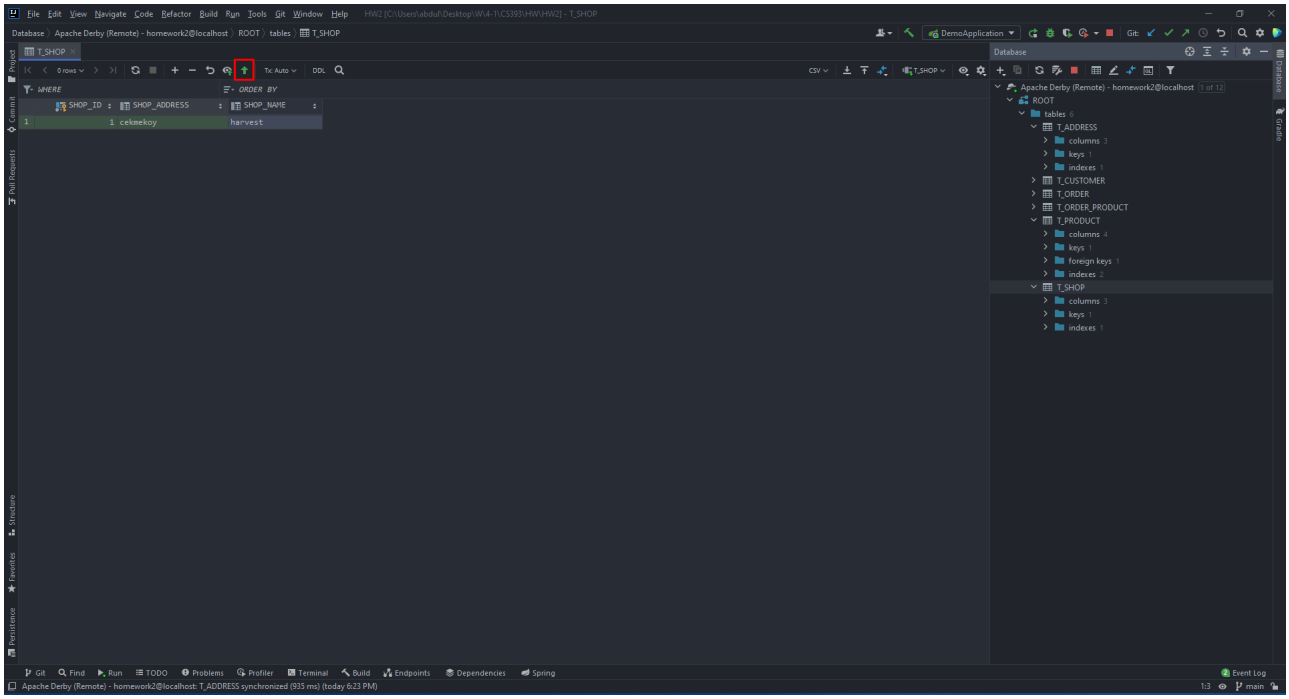
- Click on `Apply` and `OK`.
- You can now use the query console and tables directly from IntelliJ IDEA.

Adding Records to DB

- Use the `Database` tab in the top right corner of the IDE.
- Click on refresh to update the tables. Choose the table you would like to insert records into and double click onto it. Then, click on `+` icon on the top middle bar.



- After filling the necessary fields, click on upwards arrow to save the data.



- If you have `data.sql` file you can configure `application.properties` to initialize the database with the specific instances in the tables.

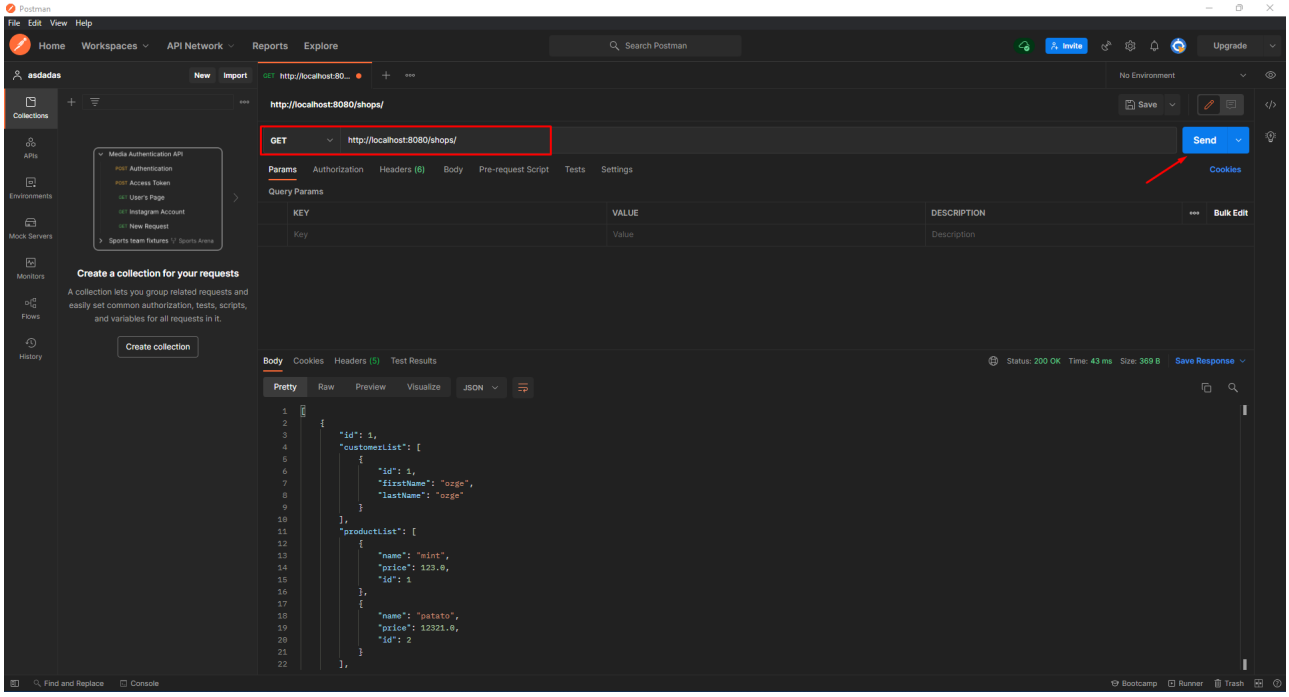
Running the Code

- Assuming you have already extracted the zip file since this file is open, find `gradle.build` inside the `HW2` directory and run it.
- Navigate to `src/main/java/com/example/demo` and run `Application.java` with IntelliJ IDEA.

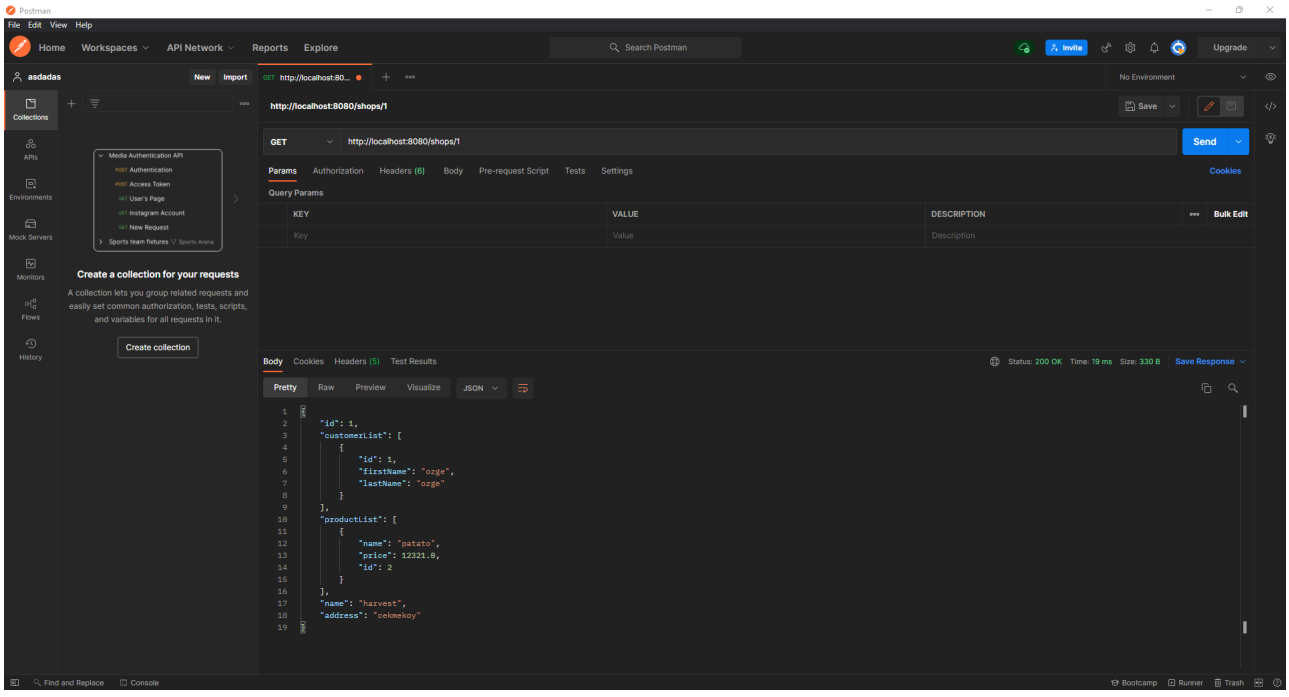
REST Services

- REST services are implemented only for `Shop` class. Others will throw a bunch of errors if you try to use them. Default URL is : `http://localhost:8080/`
- You can use Postman to easily send requests and receive responses.

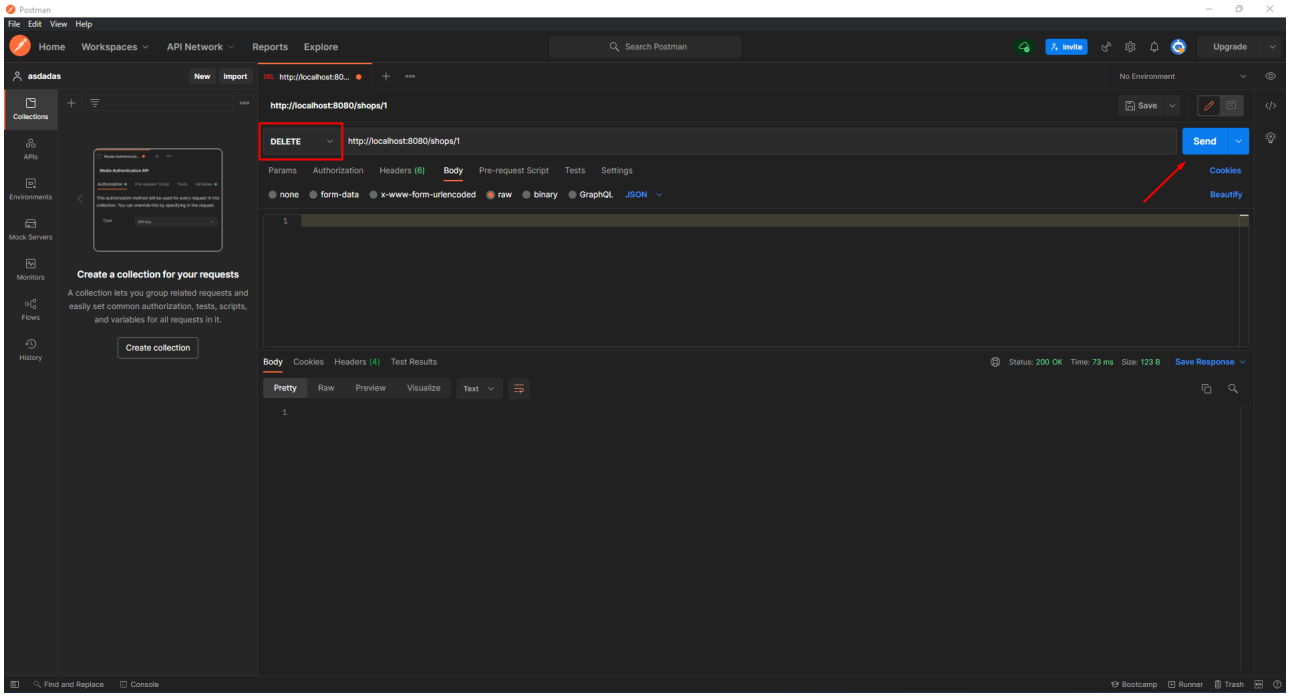
1. To `GET` all shops: GET `http://localhost:8080/shops`



2. To `GET` a specific shop with a specific `id` (this will list products with price > 200): GET `http://localhost:8080/shops/{id}`



3. To `DELETE` a specific shop with a specific `id`: DELETE `http://localhost:8080/shops/{id}`



4. To POST a new shop to the server:
    1. Have a body in the following form

    ```
    {
        "address" : ,
        "name" :
    }
    ```

    2. Use : POST `http://localhost:8080/shops`