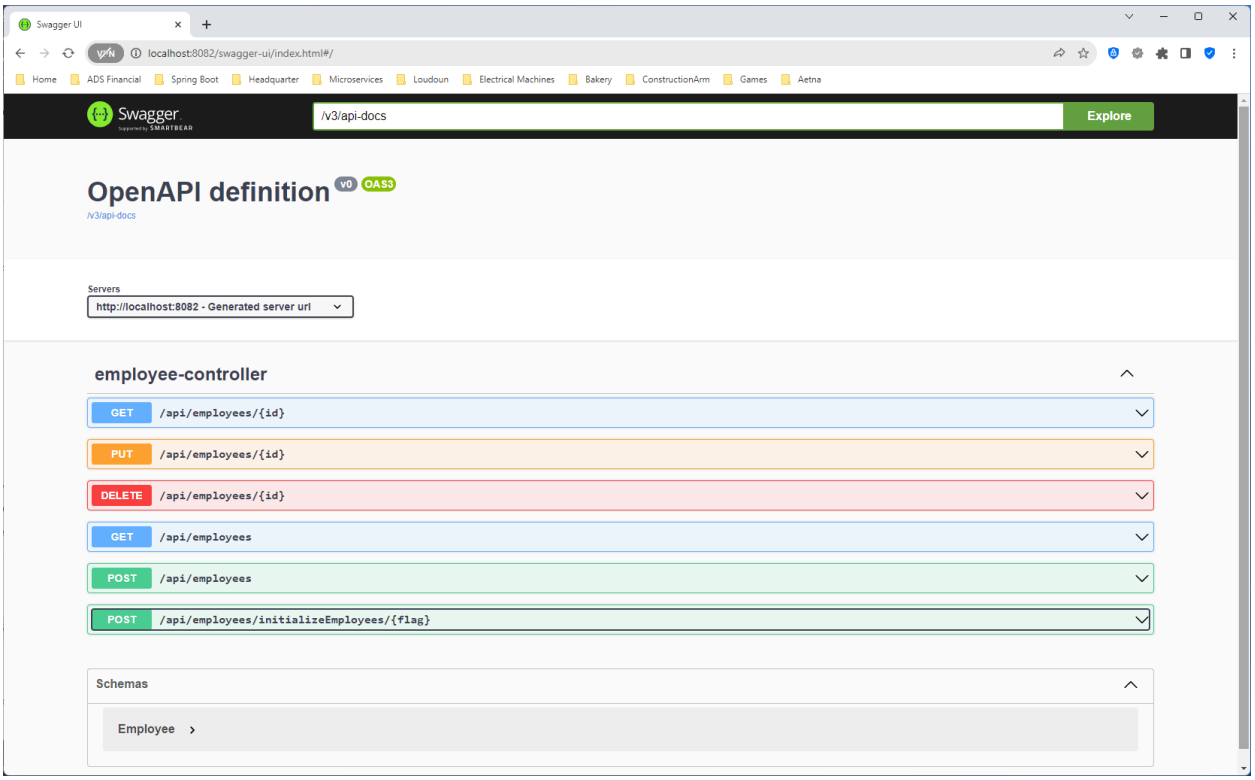
This is a basic report of the Employee API developed by Waseem Nader. The source code for it is located at: https://github.com/wnader52/spring-boot-employee-rest-api

The following tools & frameworks are needed to build and run this API:

1. Java 17
2. Spring Boot 3.2.3
3. IntelliJ or Eclipse or any other IDE used for developing Java Spring Boot APIs
4. Please look at the README.md file for usage information

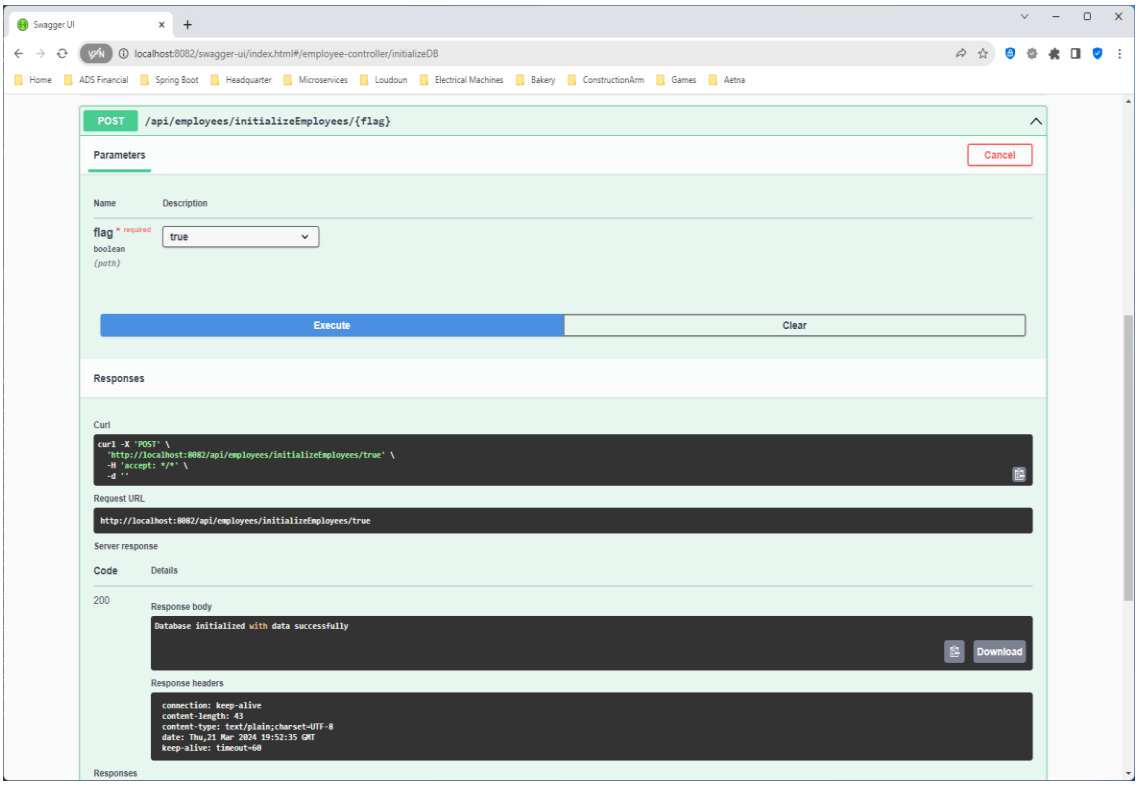
Download the API from the above location and build it so that it can run locally. Once fully built using either Eclipse or IntelliJ IDE, you would be able to run it. Once you run it, access the local URL as shown below via Chrome or any other browser.

Go to http://localhost:8082/swagger-ui/index.html to see the swagger schema for its usage.

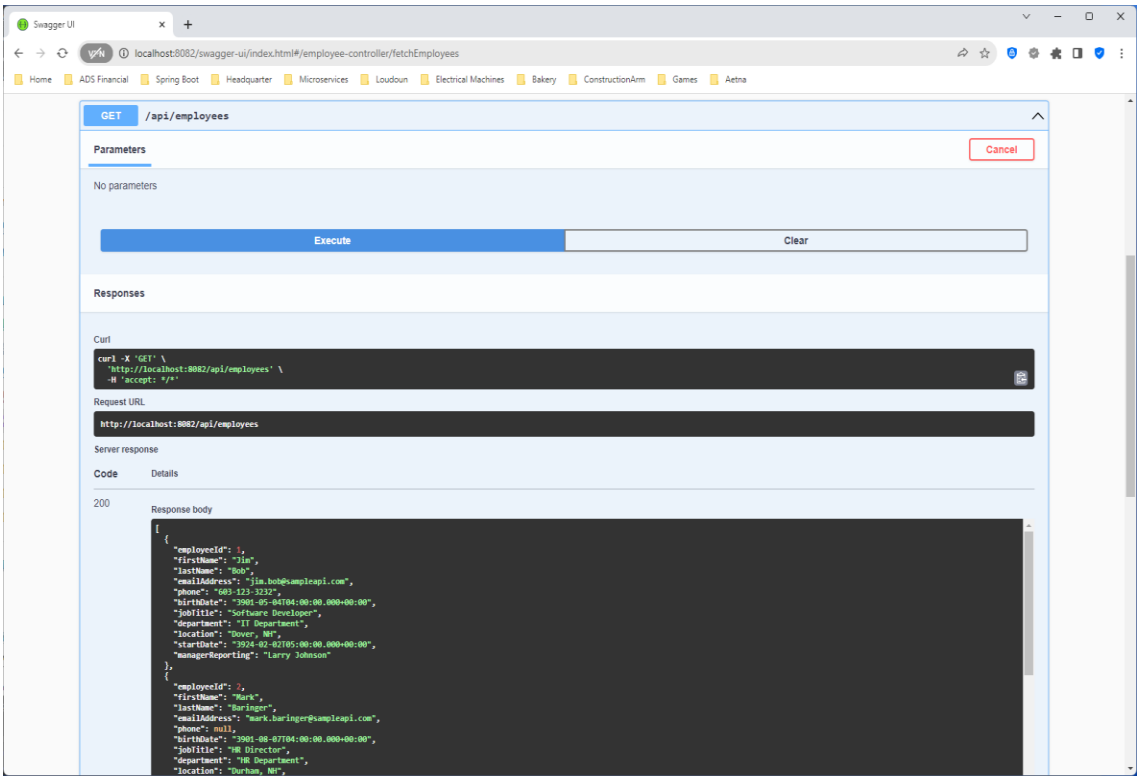


You need to run the ../api/initializeEmployees/{flag} first so that some dummy data can be generated and stored in memory. Then all subsequent operations can be performed.

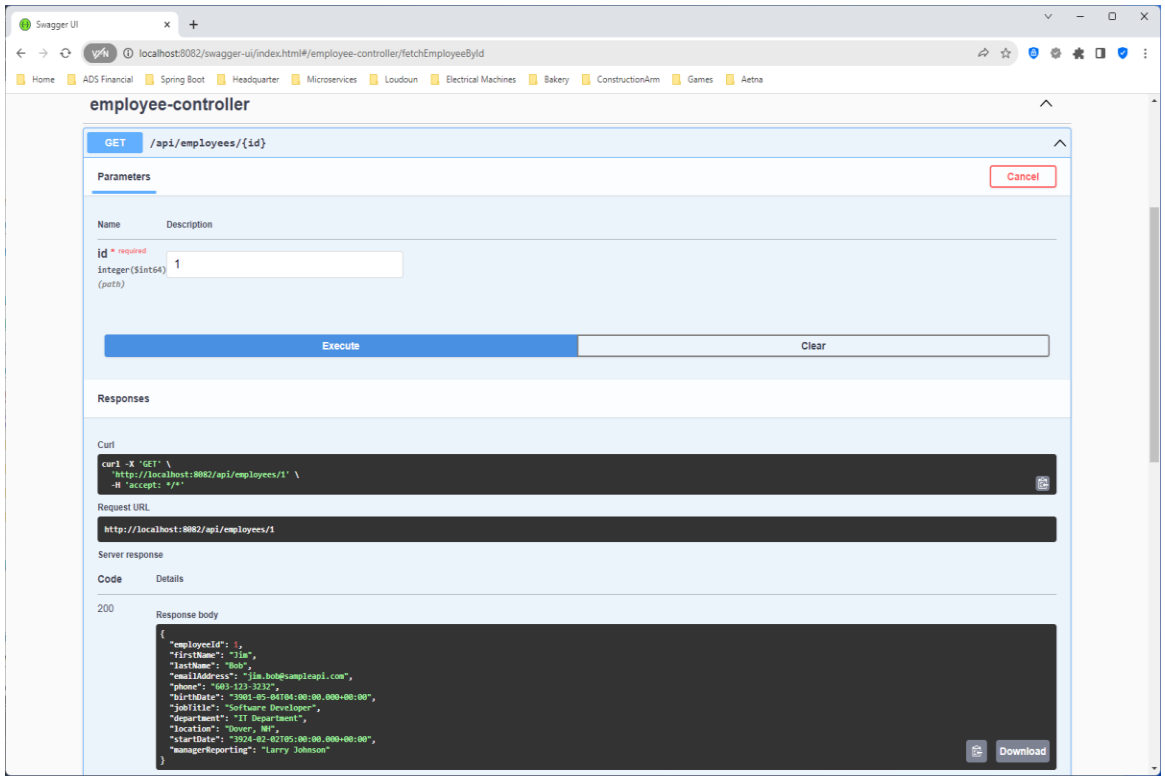
1. Running the ../api/initializeEmployees/true command (create dummy employee objects)



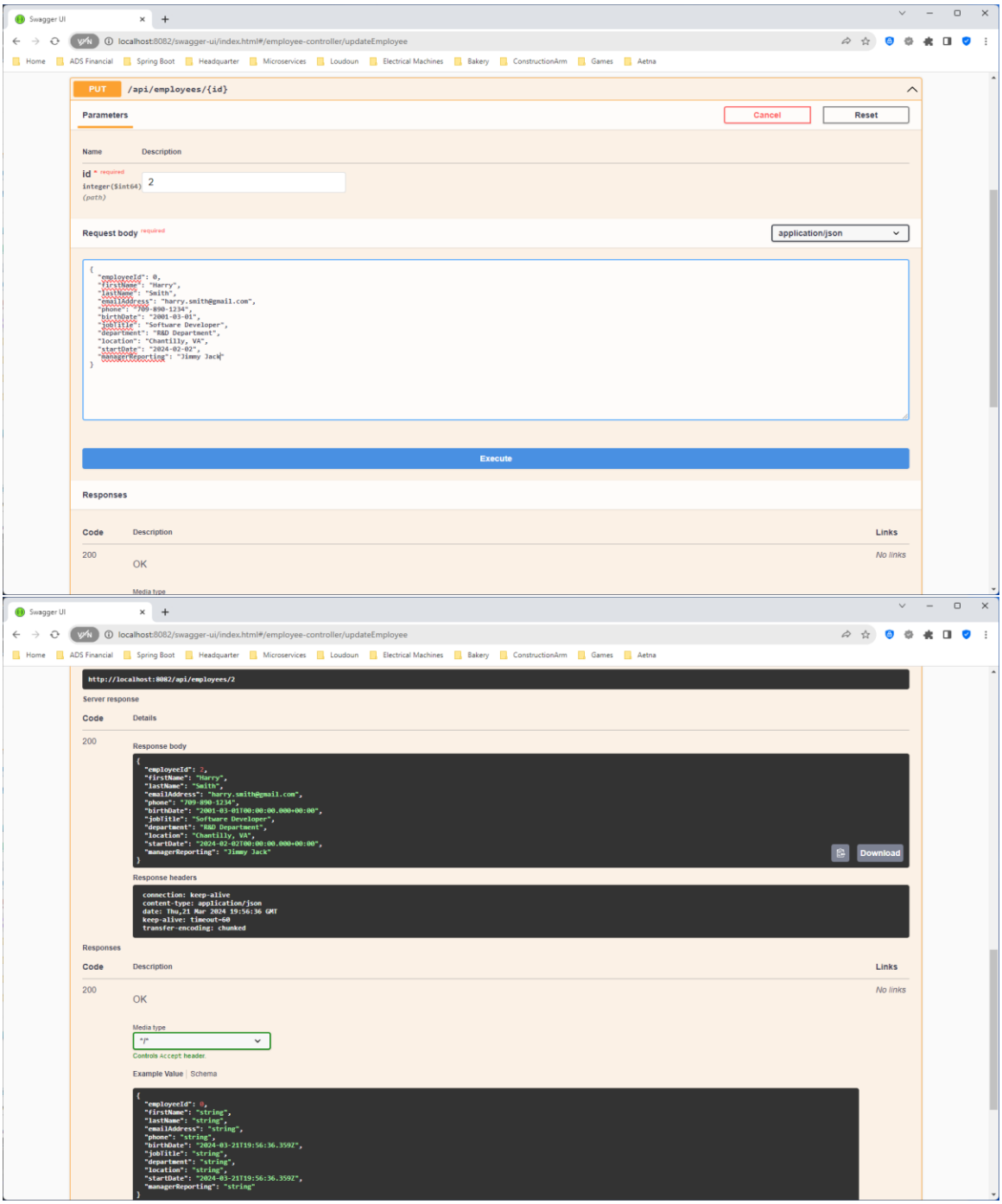
2. Executing ../api/employees (fetch all employees using HTTP GET)



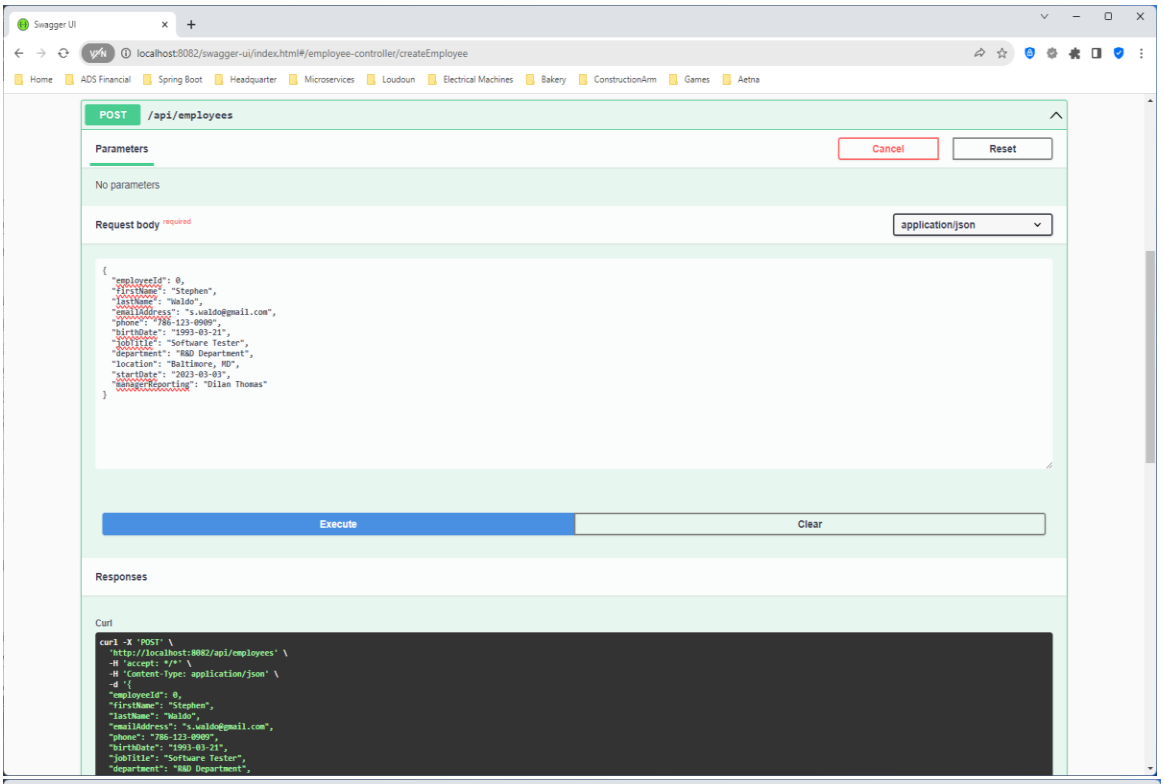
3. Executing ../api/employees/1 (fetch individual employee by Id using HTTP GET)

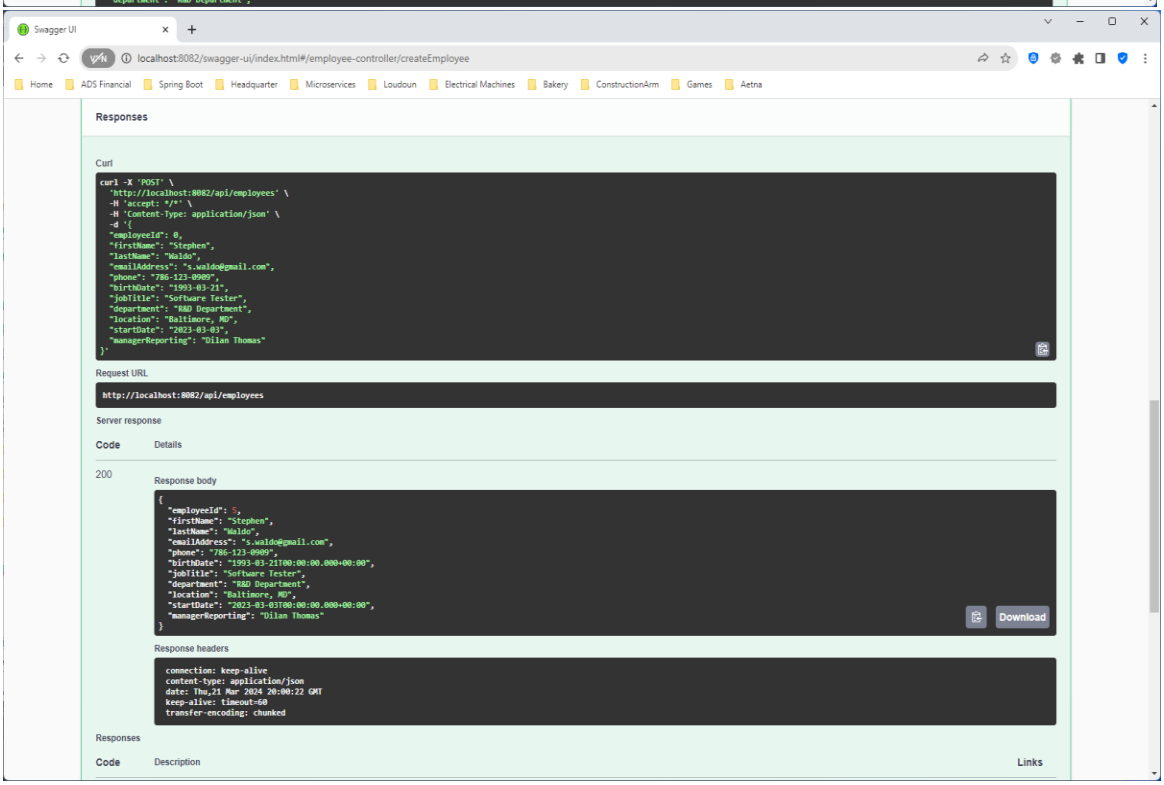


4. Executing ../api/employees/1 (update using HTTP PUT)

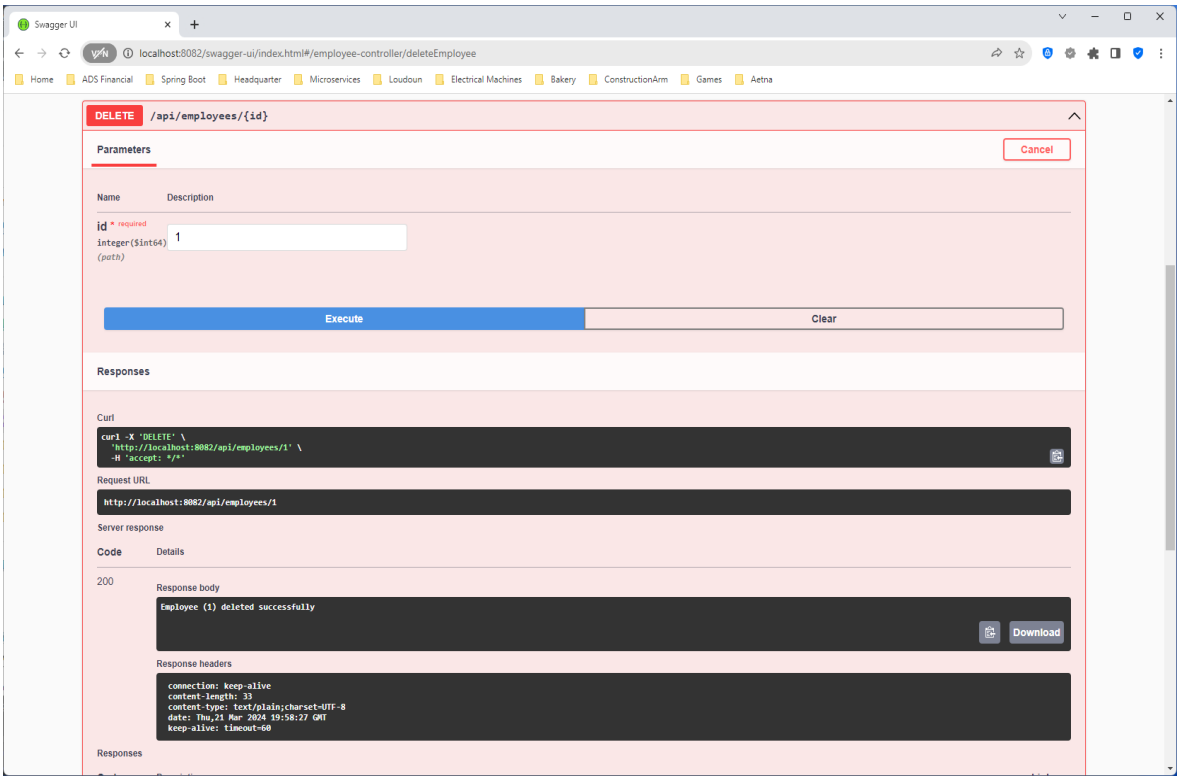


5. Executing ../api/employees (creating employee object and saving using HTTP POST)

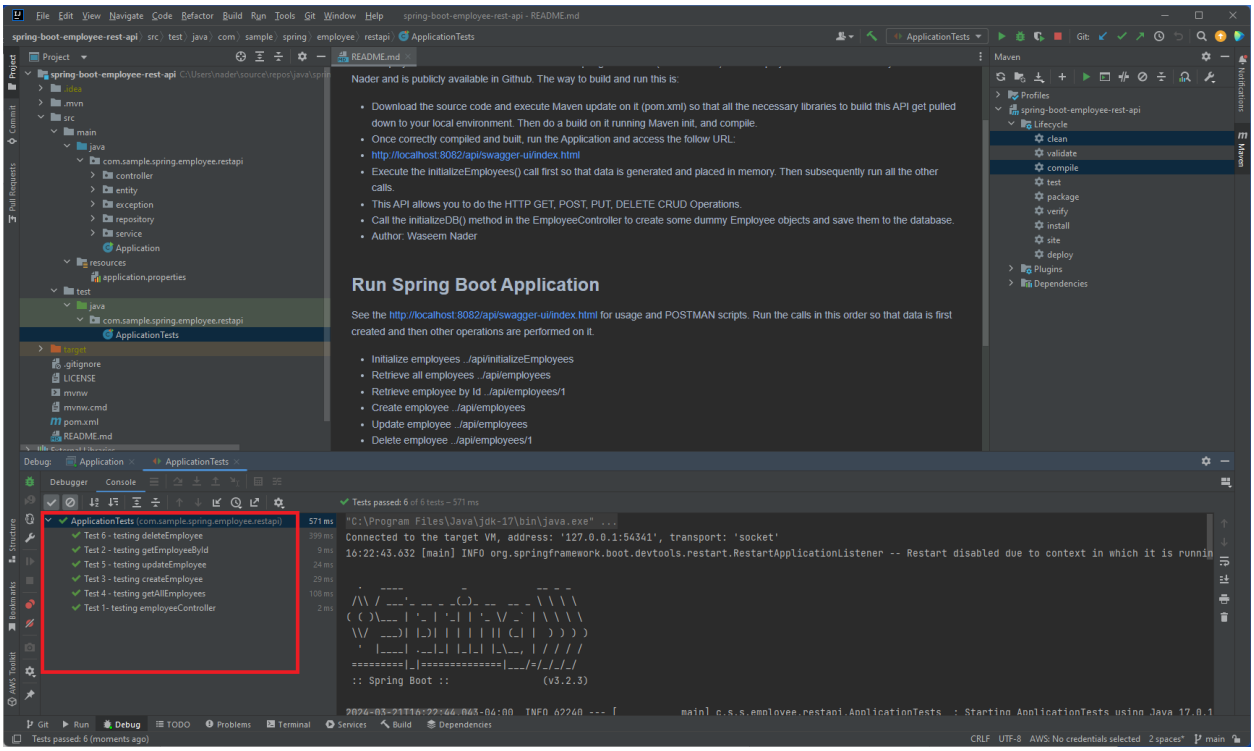




6. Executing ../api/employees/1 (deleting employee by Id using HTTP DELETE)



The Employees API also has some Junit 5 tests that can be executed as shown below.


spring-boot-employee-rest-api - README.md
Nader and is publicly available in Github. The way to build and run this is:
Download the source code and execute Maven update on it (pom.xml) so that all the necessary libraries to build this API get pulled down to your local environment. Then do a build on it running Maven init, and compile.
Once correctly compiled and built, run the Application and access the follow URL:
http://localhost:8082/api/swagger-ui/index.html
Execute the initializeEmployees() call first so that data is generated and placed in memory. Then subsequently run all the other calls.
This API allows you to do the HTTP GET, POST, PUT, DELETE CRUD Operations.
Call the initializeDB() method in the EmployeeController to create some dummy Employee objects and save them to the database.
Author: Waseem Nader
Run Spring Boot Application
See the http://localhost:8082/api/swagger-ui/index.html for usage and POSTMAN scripts. Run the calls in this order so that data is first created and then other operations are performed on it.
Initialize employees ../api/initializeEmployees
Retrieve all employees ../api/employees
Retrieve employee by Id ../api/employees/1
Create employee ../api/employees
Update employee ../api/employees
Delete employee ../api/employees/1
Tests passed: 6 of 6 tests – 571 ms
"C:\Program Files\Java\jdk-17\bin\java.exe" ...
Connected to the target VM, address: '127.0.0.1:54341', transport: 'socket'
:: Spring Boot :: (v3.2.3)