

SWE212 PROJECT STUDY 4 (2025)

Due date: 20 May 2025, class time.

In this study, you will develop a micro-service architecture for your project. At least 3 Rest-API services will be provided in your implementation, you can name your services properly (see Figure 1). You are supposed to implement the following steps:

- Back-End services will be implemented Spring Boot and front-end GUIs will be implemented using React-Vite.
- A shell script will be provided that starts up three separate database servers and make ready with different port numbers (PS: Docker must be installed in your computer).
- No authentication-authorization is required in this project.
- You should use “Declarative REST Client” (Feign) to get data from other databases.
- All views will be implemented on React server that runs on Node web server.
- Show that your application is accessible from local browser or postman, and everything works properly.

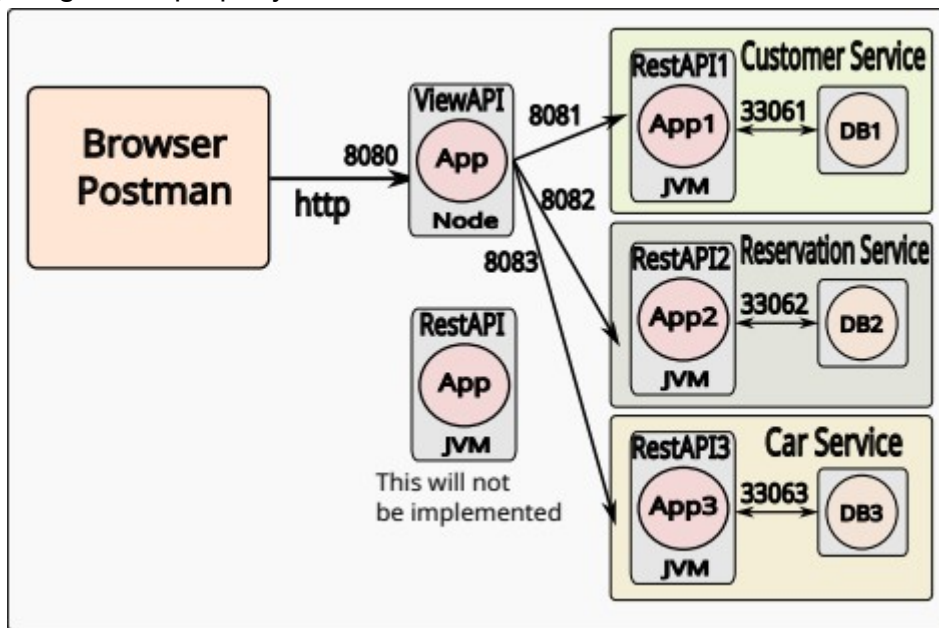


Figure 1. Micro-service structure of the project.

Grading:

No	Task	Grade
1	Databases up and running, initialized.	10
2	Back-end: CRUD operations on each independent services are OK (tested by postman)	40
3	Front-end: Views are working as expected.	40
4	Everything works as described with no error, exceptions handled properly.	10

PS: Student must show up for presentation to collect points.