

SWE212 PROJECT STUDY 4 (2026)

Due date: 12 May 2026, in class.

In this study, you will develop a four-tier architecture distributed information system. Design and implement your solution with the following specifications:

- Back-end server must be implemented Spring Boot framework (version 4.0.1).
- Front-end server must be implemented with Node (version 24.13.0) and Vite (version 8.2.0) with Vanilla template.
- MySQL or PostgreSQL database server can be used.
- You must provide at least one endpoint for PDF generation. That endpoint must generate a report using a table data in your problem. You can use JasperSoft community edition for pdf generation.
- No authentication-authorization is required in this project.
- All views will be implemented on React server and they run on Node web server.
- Show that your front-end server is accessible from a local browser, and back-end from Postman.

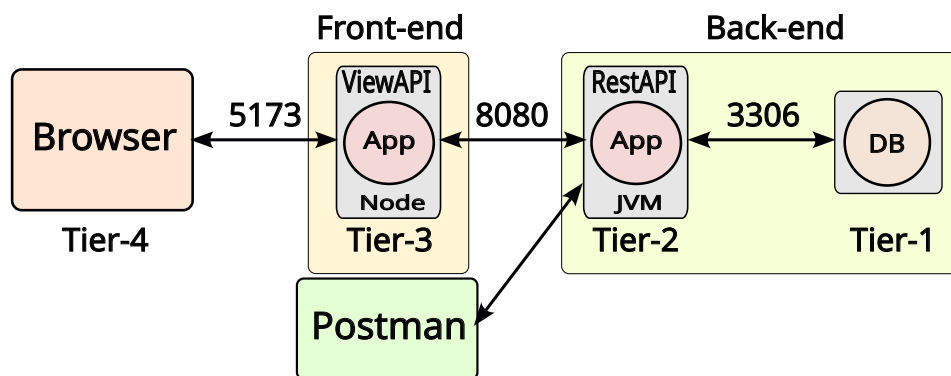


Figure 1. Four-tier architecture with View-API.

Grading:

No	Task	Grade
1	Back-end up and running, tested with Postman.	10
2	Front-end views are working as expected.	40
3	Image upload and download works as expected,	20
4	PDF generation works as expected.	20
4	Everything works as described with no error, exceptions handled properly.	10

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