

SWE212 PROJECT STUDY 4 (2025)

Due date: 20 May 2025, class time.

In this study, you will develop a React-Vite GUI (Frontend) for Java RestAPI (Backend) that you implemented in project 2. Figure 1 shows the block diagram of your project study. Your application must support the following futures:

- Backend services must be implemented Spring Boot and frontend GUIs must be implemented using React-Vite.
- You must provide one endpoint for PDF generation. That endpoint must generate a report using the table data. You can select any of your application table for pdf report. You must use Jasper Report 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 application is accessible from local browser or postman, and everything works properly.

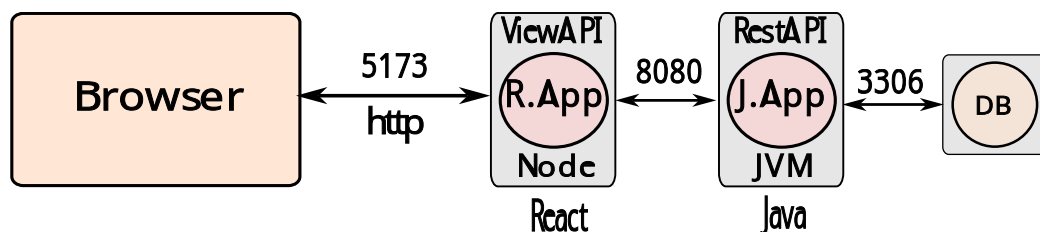


Figure 1. Frontend development with React-Vite.

Grading:

No	Task	Grade
1	Backend up and running, tested with Postman.	10
2	Frontend 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.