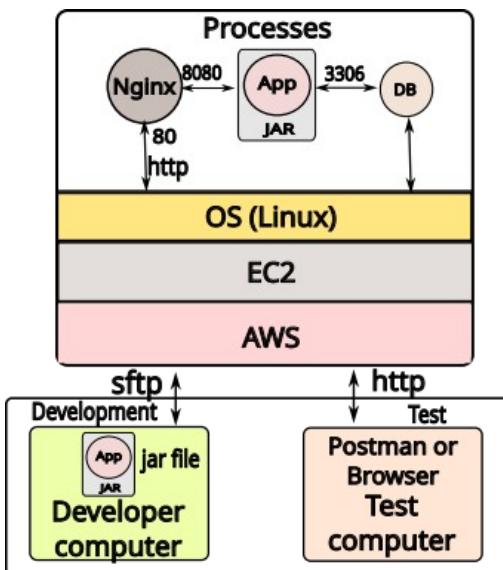


## SWE 304 PROJECT STUDY 1 (2026)

**Due date:** 26 February 2026, in class.

In this project, you are expected to publish a simple Java Spring Boot Rest-API web application on AWS or AZURE cloud. Specifications as follows:

- Each group will work on different topic, pick a topic from this link: list [https://github.com/ozmen54/swe212-2026/blob/main/SWE212\\_ProjectDescriptions\\_2026.pdf](https://github.com/ozmen54/swe212-2026/blob/main/SWE212_ProjectDescriptions_2026.pdf)
- Use Java (version 25), Spring-Boot framework (version 4.0.1) and Maven build tool (version 4.0.0).
- Use MySQL or PostgreSQL as database server (version, you pick one).
- No container technologies are expected, otherwise is penalized by minimum -25 points
- Create a Linux instance on AWS (or Azure) with proper configurations.
- Install a DB server (MySQL or Postgresql) on the cloud instance, and load the db dump file to the database.
- Install Nginx web server on the cloud instance and configure it to function as reverse proxy.
- Postman or a browser will be used for tests.
- You can use sftp or scp for file transfer.
- You must show that all CRUD operations are working in local computer and on the cloud instance after you published it (See Figure 1).



**Figure 1.** The schematic view of the project work.

### Grading:

No Task	Grade
1 Development on local computer and creating a jar file	30
2 Creating a cloud instance and configuring it properly for web project	30
3 Transferring the application jar file to the cloud	10
4 Installing DB and uploading initial data	10
5 Installing Nginx and configuring it	10
6 Testing with web browser and postman	10

**PS:** Group presentation is required, group members must show up to in presentation to collect points.