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Java

Build a simple application with Data Access using Spring Boot & Spring Data JPA

Objectives

Build application with Data access

- Create a new Maven project in IntelliJ IDE
- Add the necessary dependencies for Spring MVC and data access
- Create the Model - Define the entity classes that represent domain objects
- Define the data access object (DAO) interfaces and their implementations for interacting with the database.
- Create the Controller
- Set Up the Views
- Create the views using JSP, Thymeleaf, or another templating engine
- Implement the Business Logic
- Testing
- Run the Application

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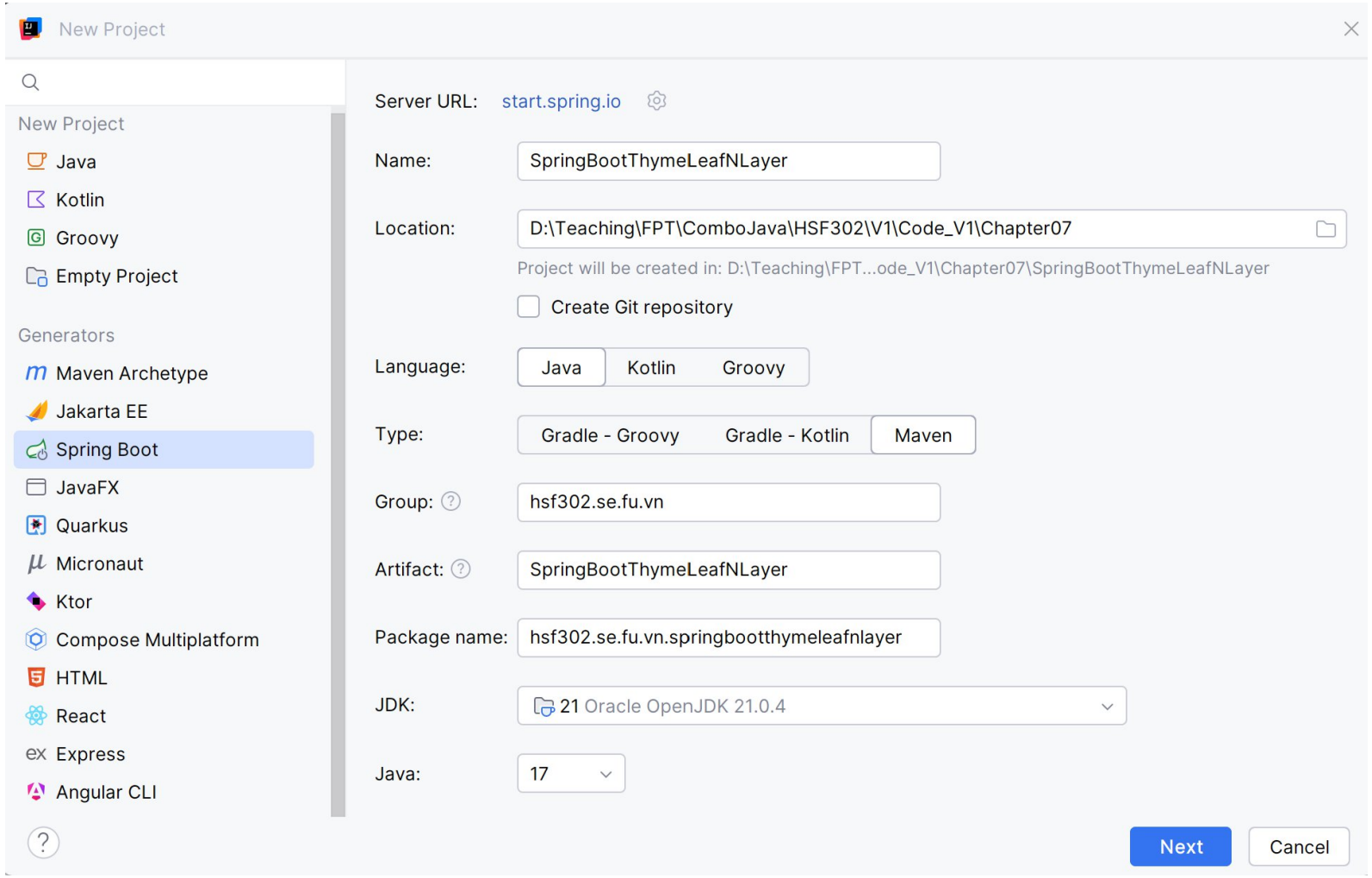
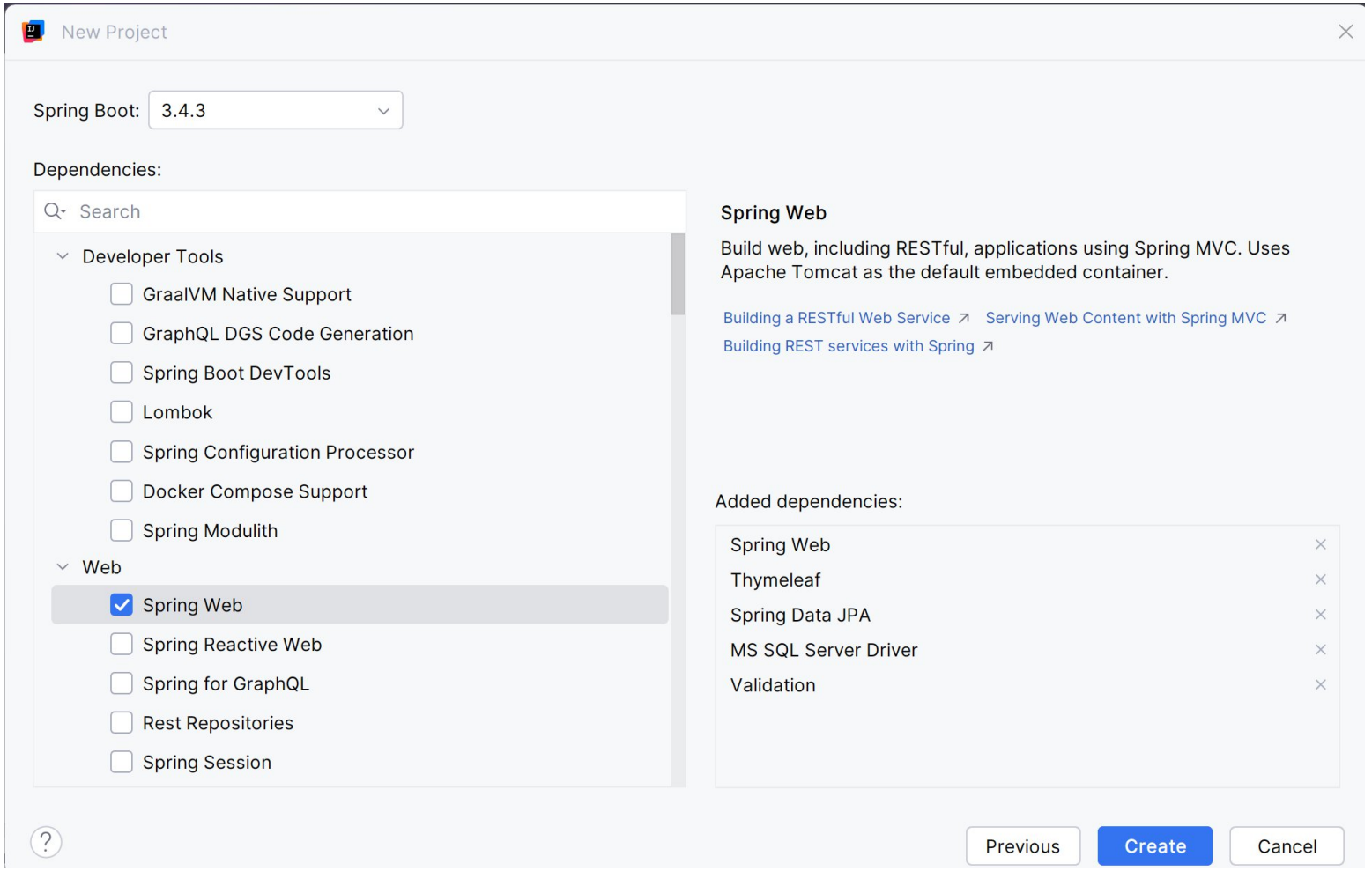
Java

Demo Spring Boot with Thymeleaf Engine with Repository Pattern

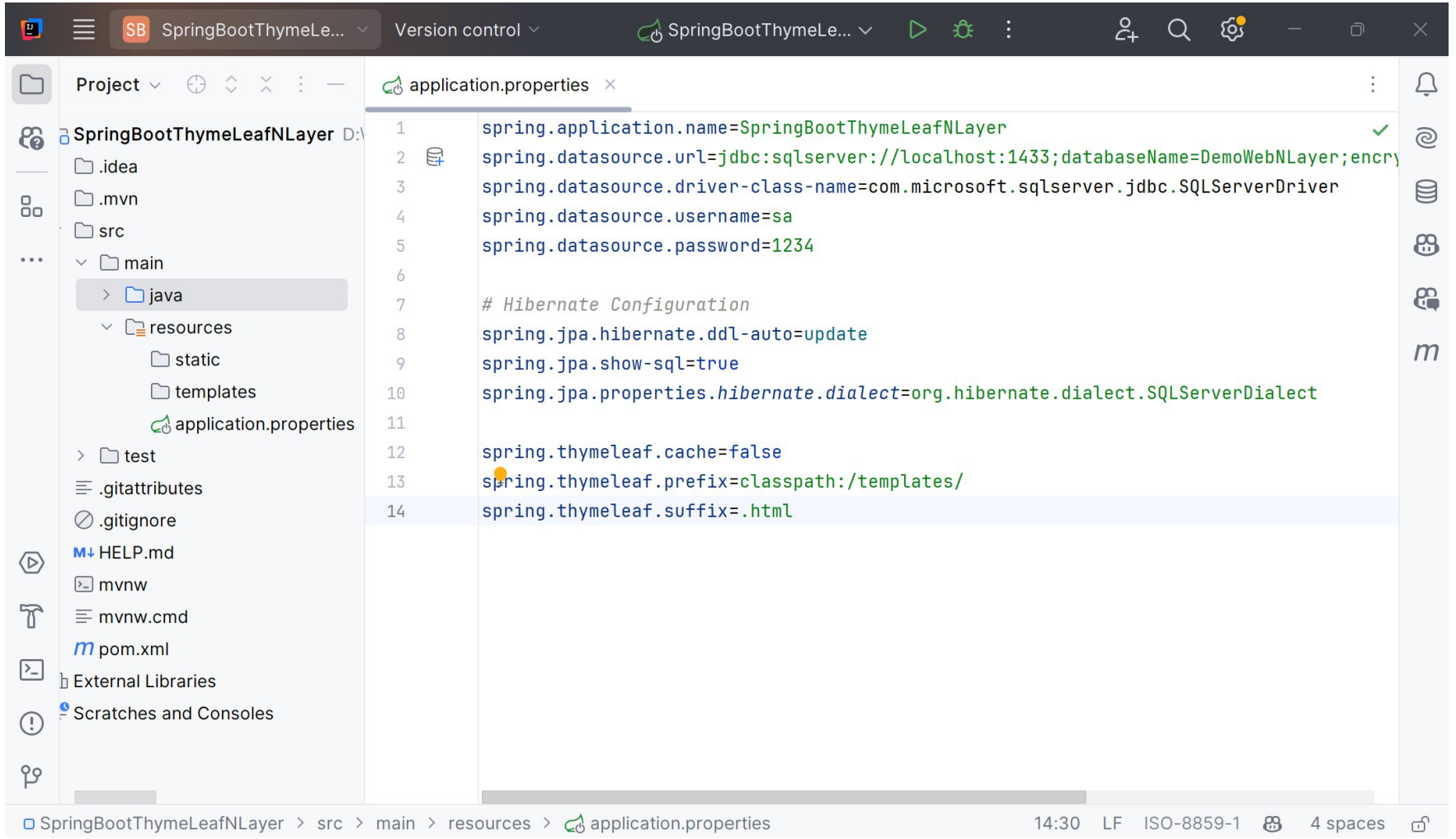
Create a simple project using Thymeleaf



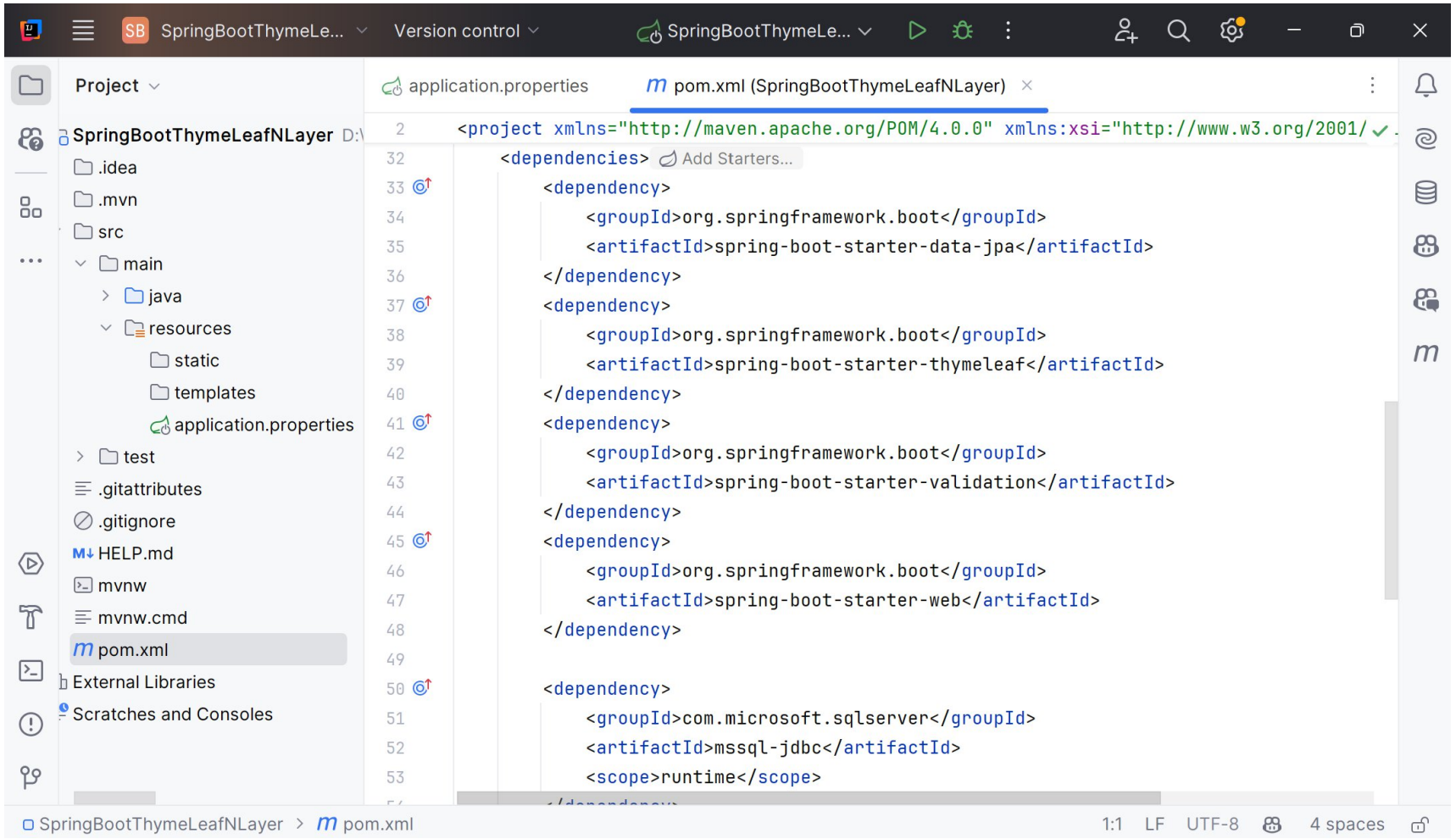
Add dependencies



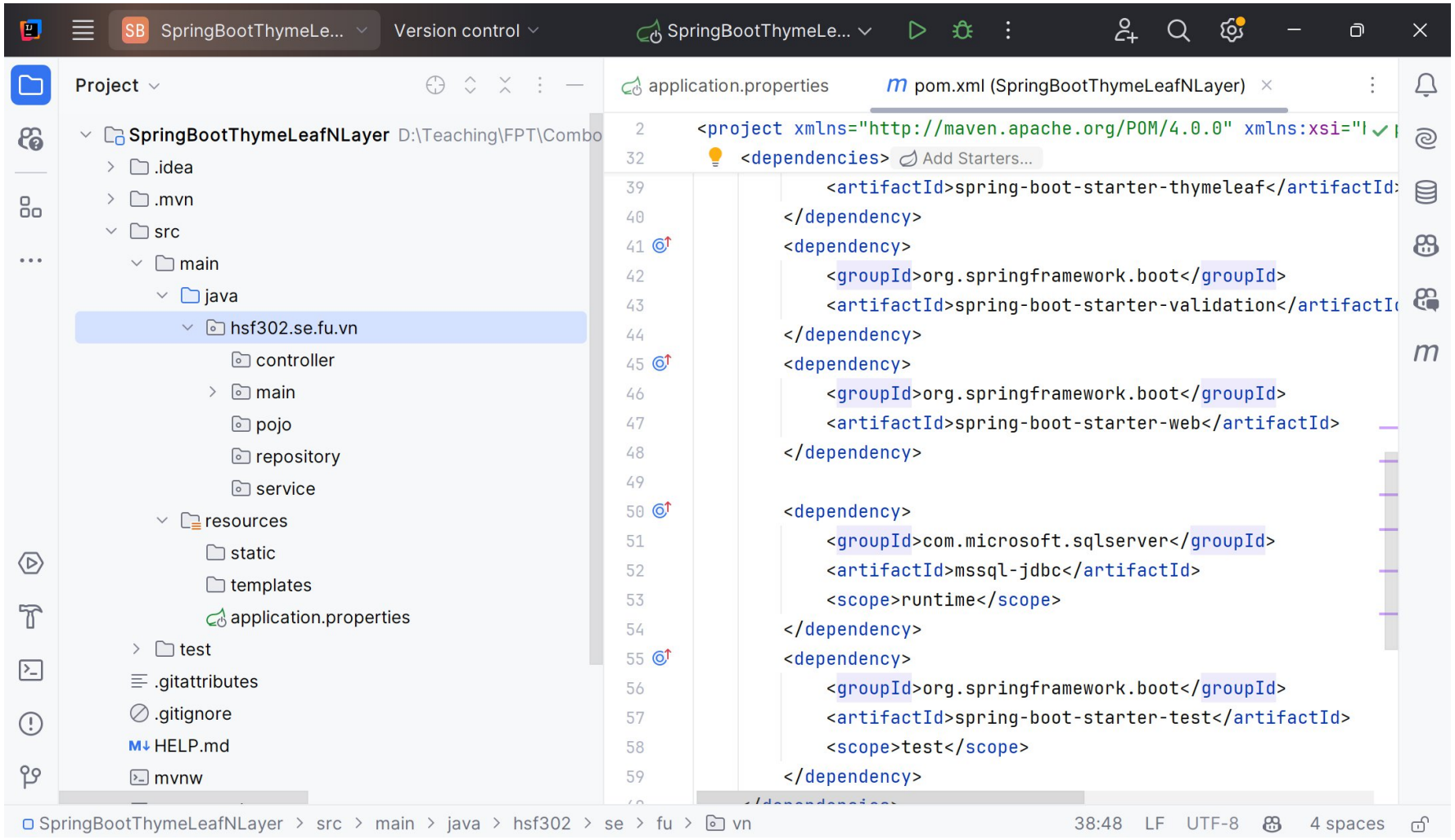
Update the application.properties



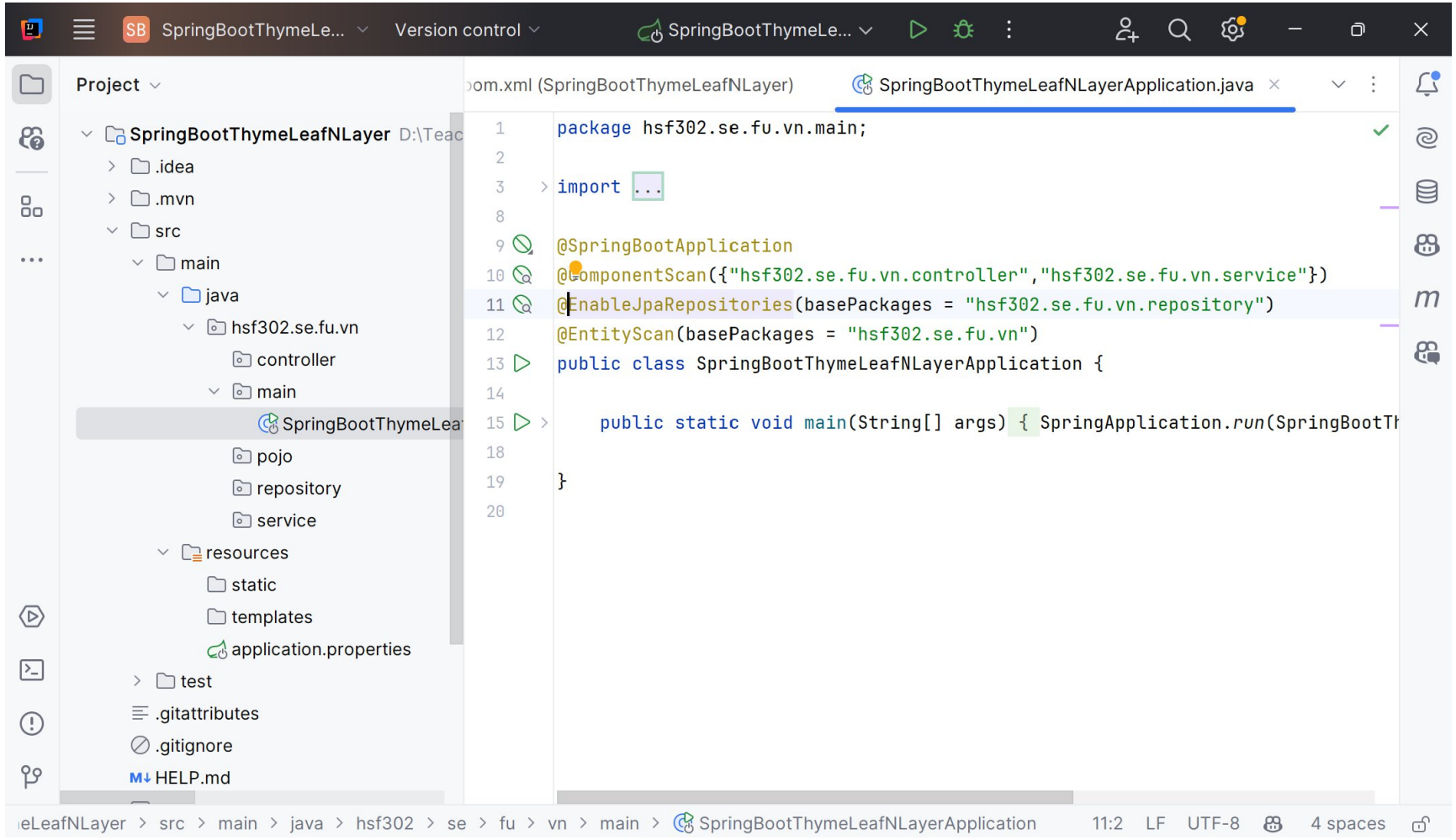
Check the pom.xml



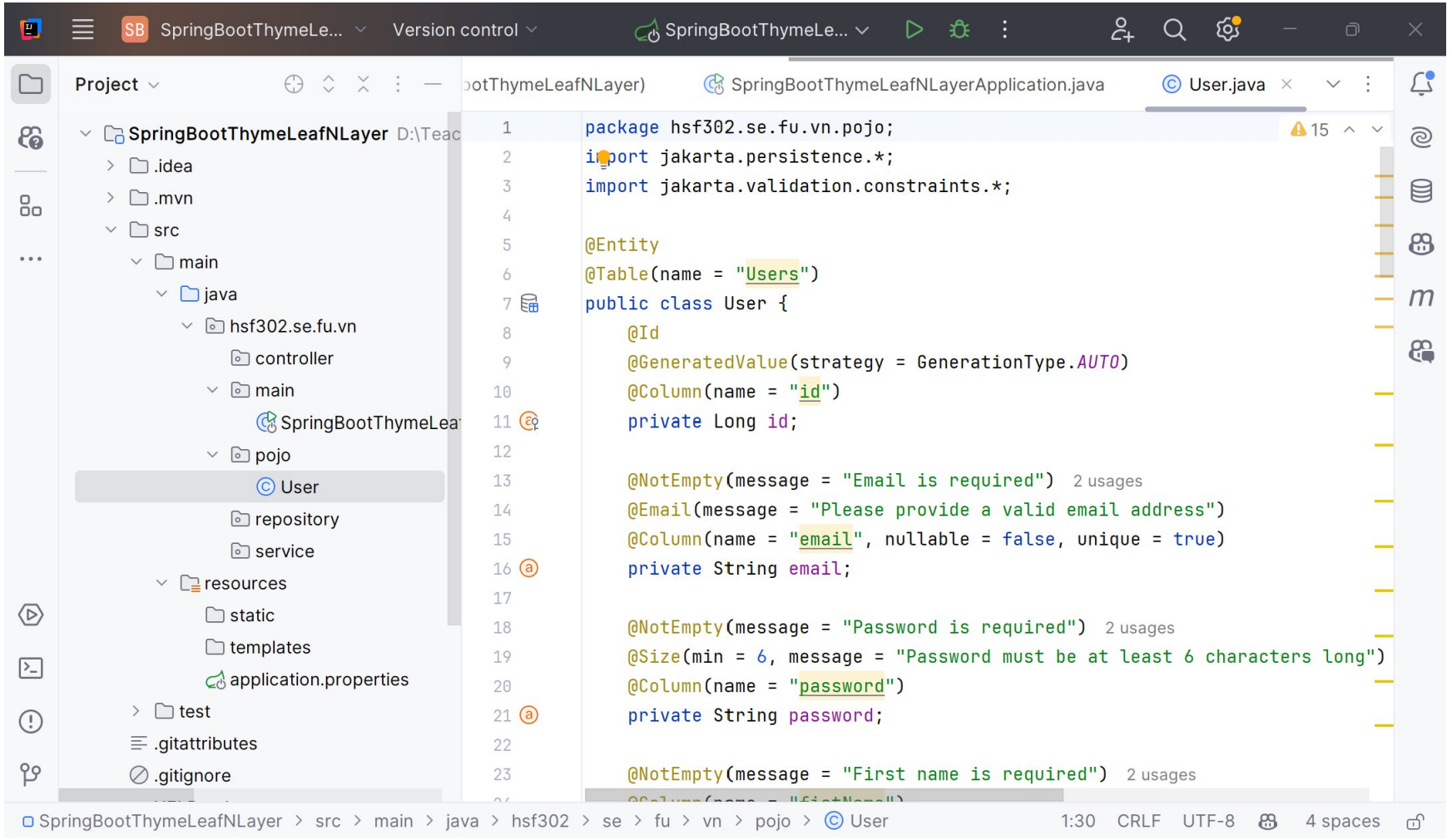
Create the Structure Project



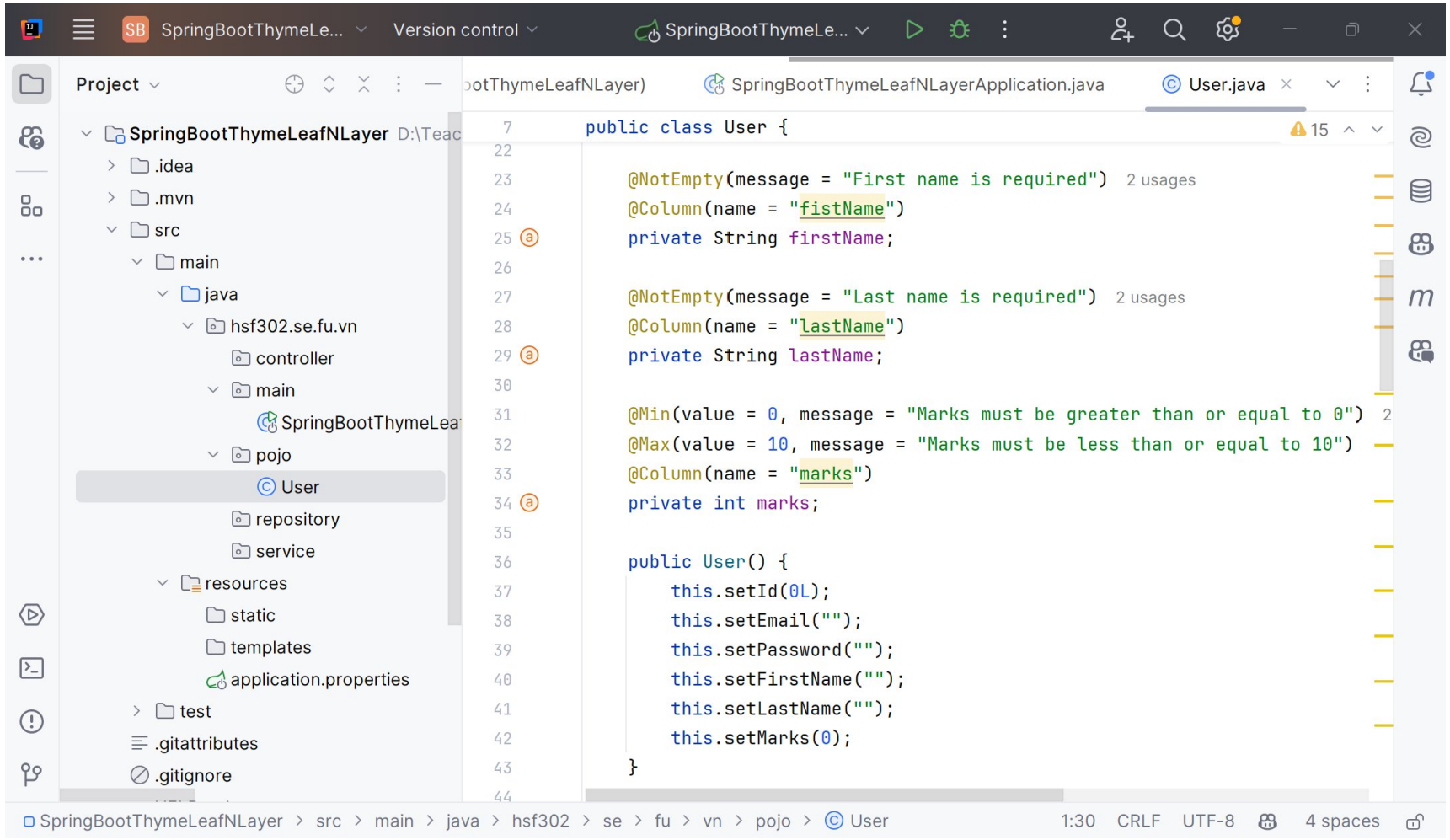
Update main function



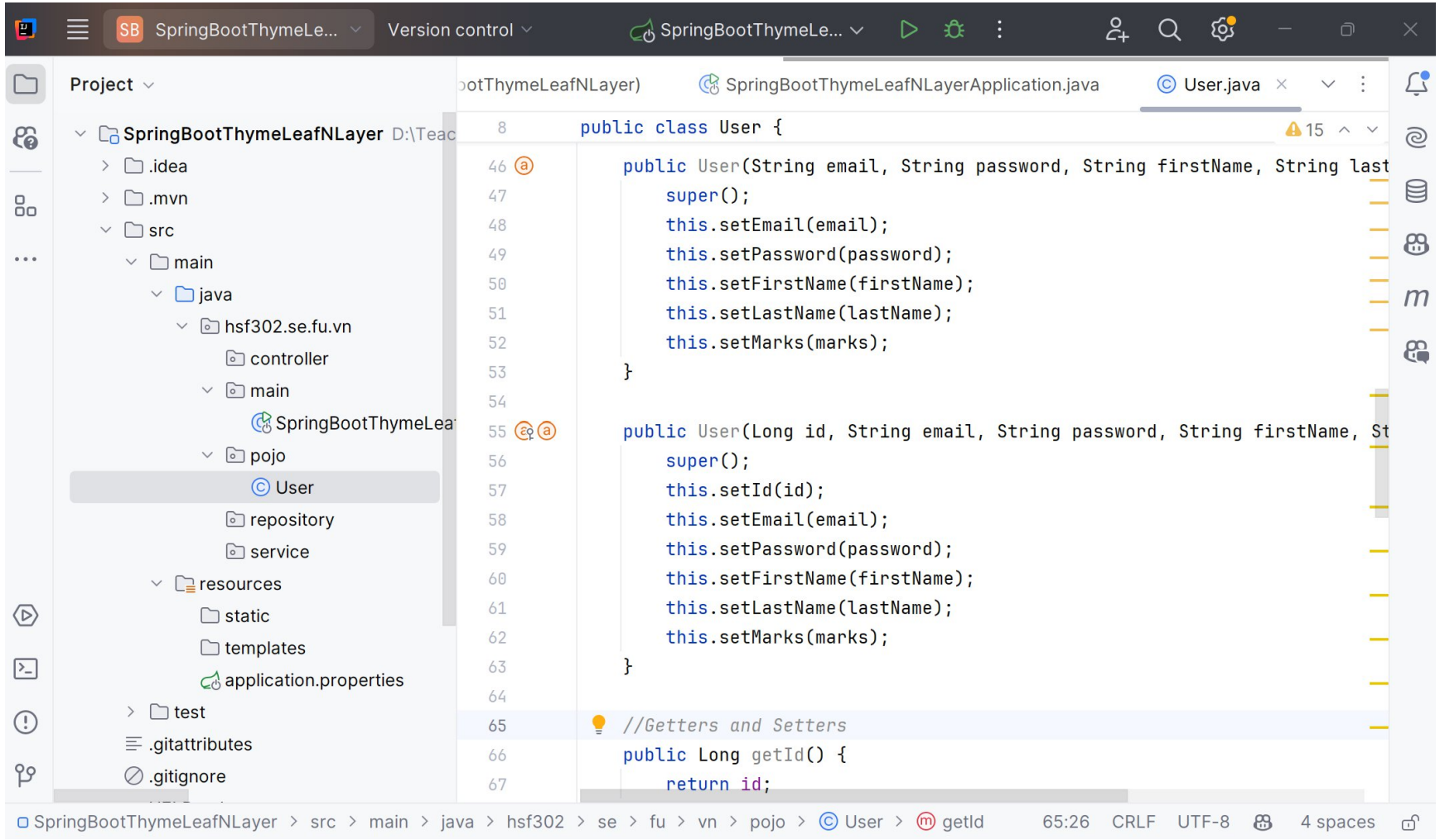
Pojo and validation



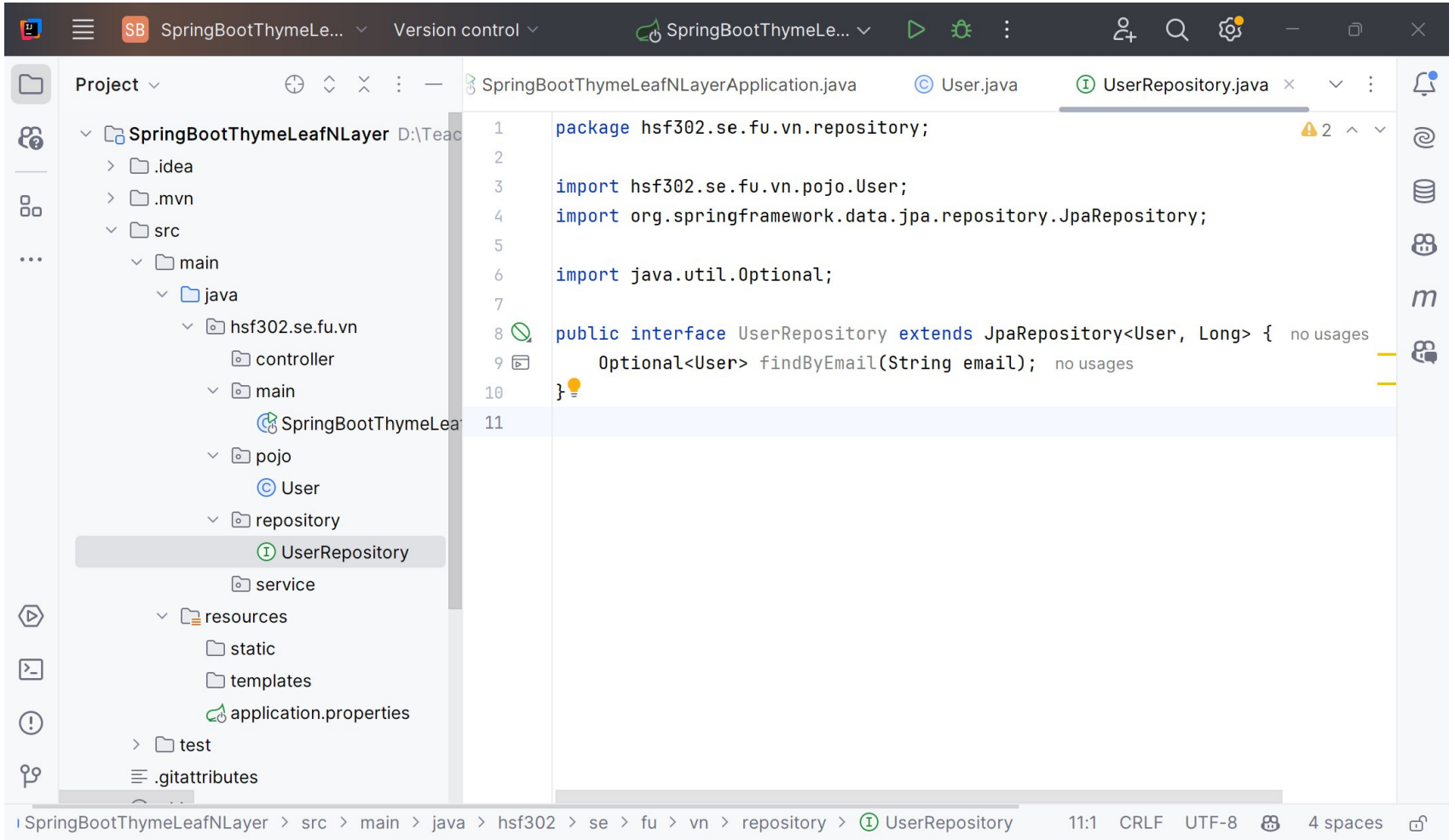
Pojo and validation



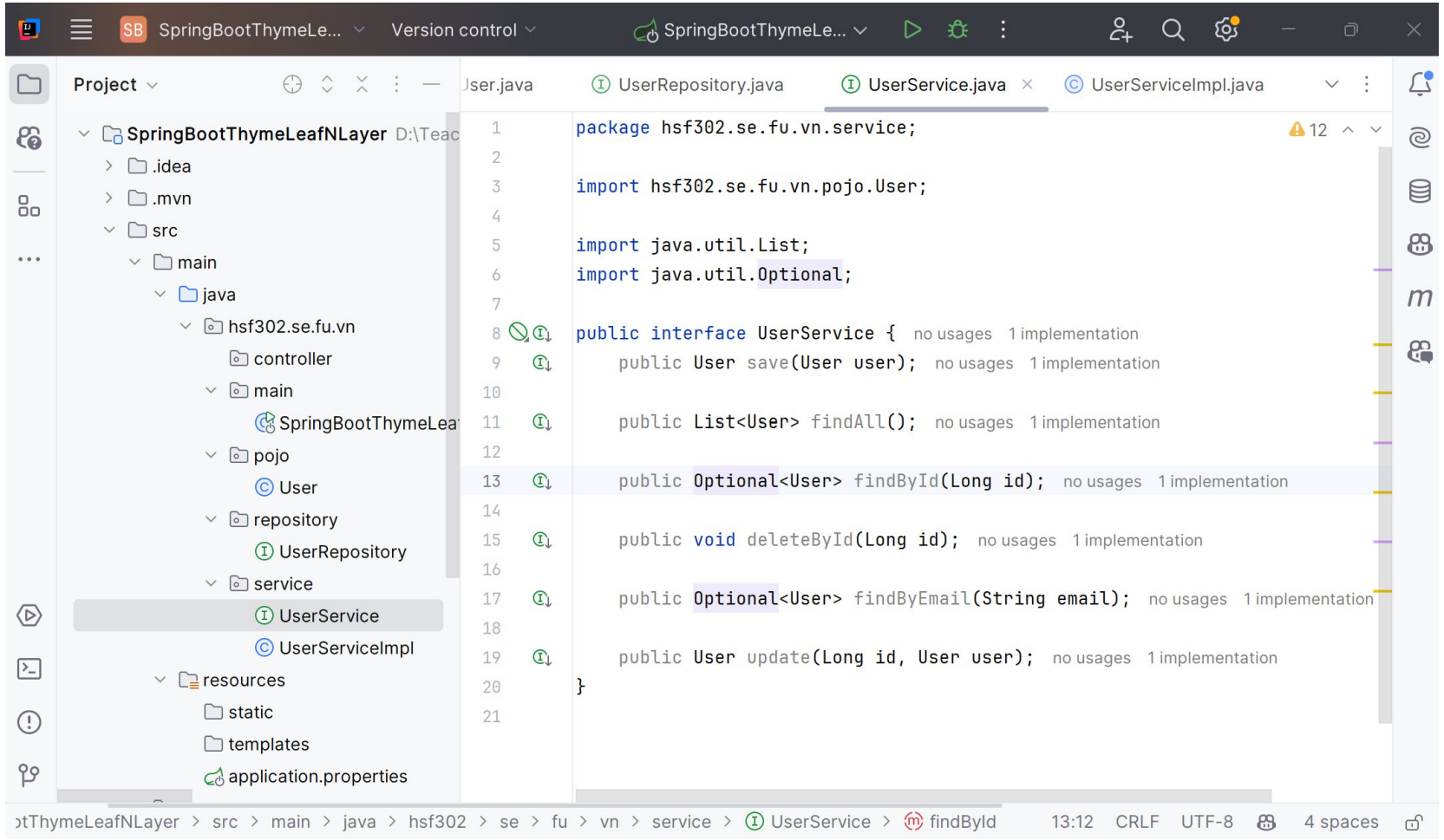
Pojo and validation



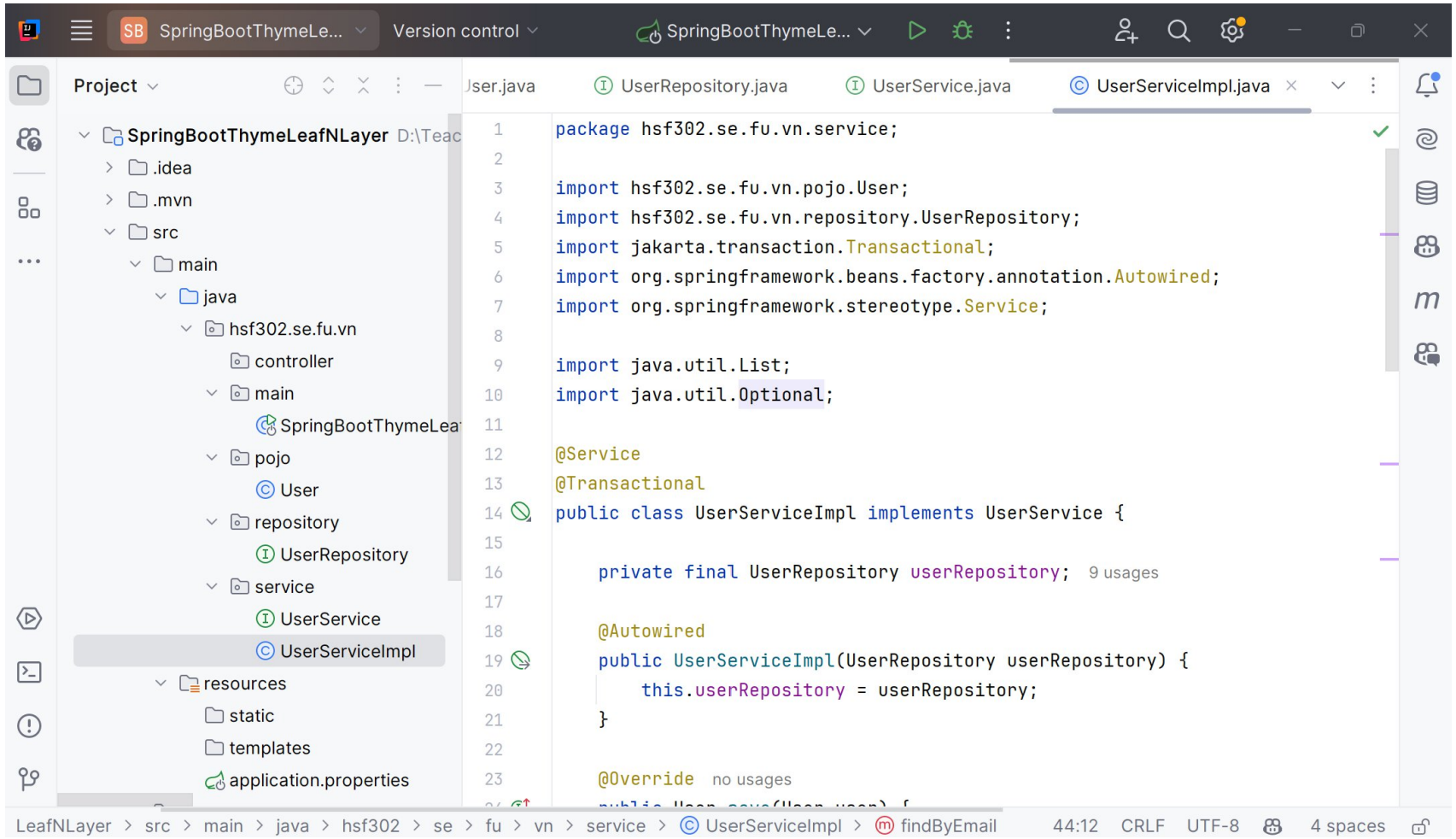
Create the UserRepository.java



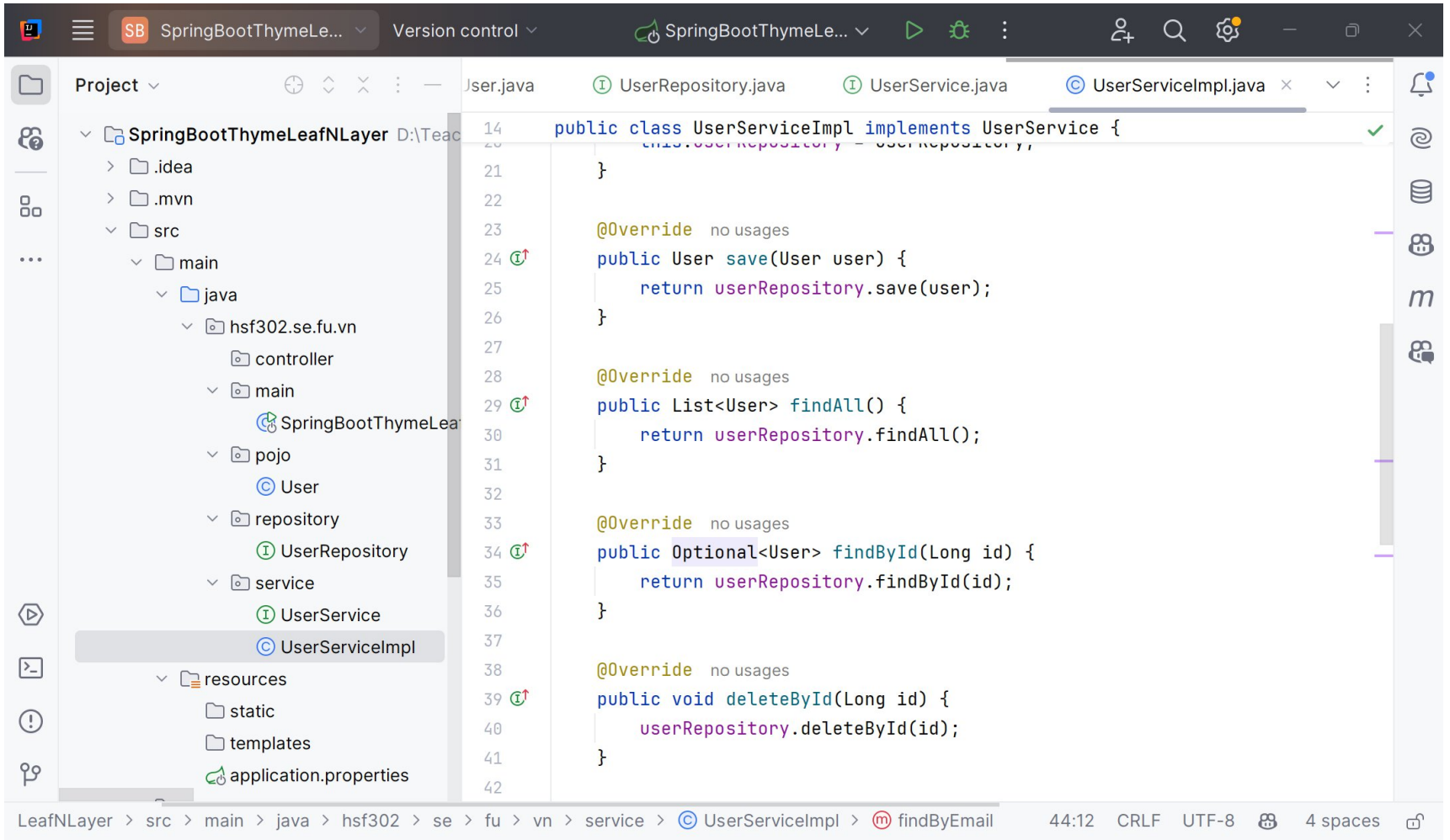
Create the UserService.java



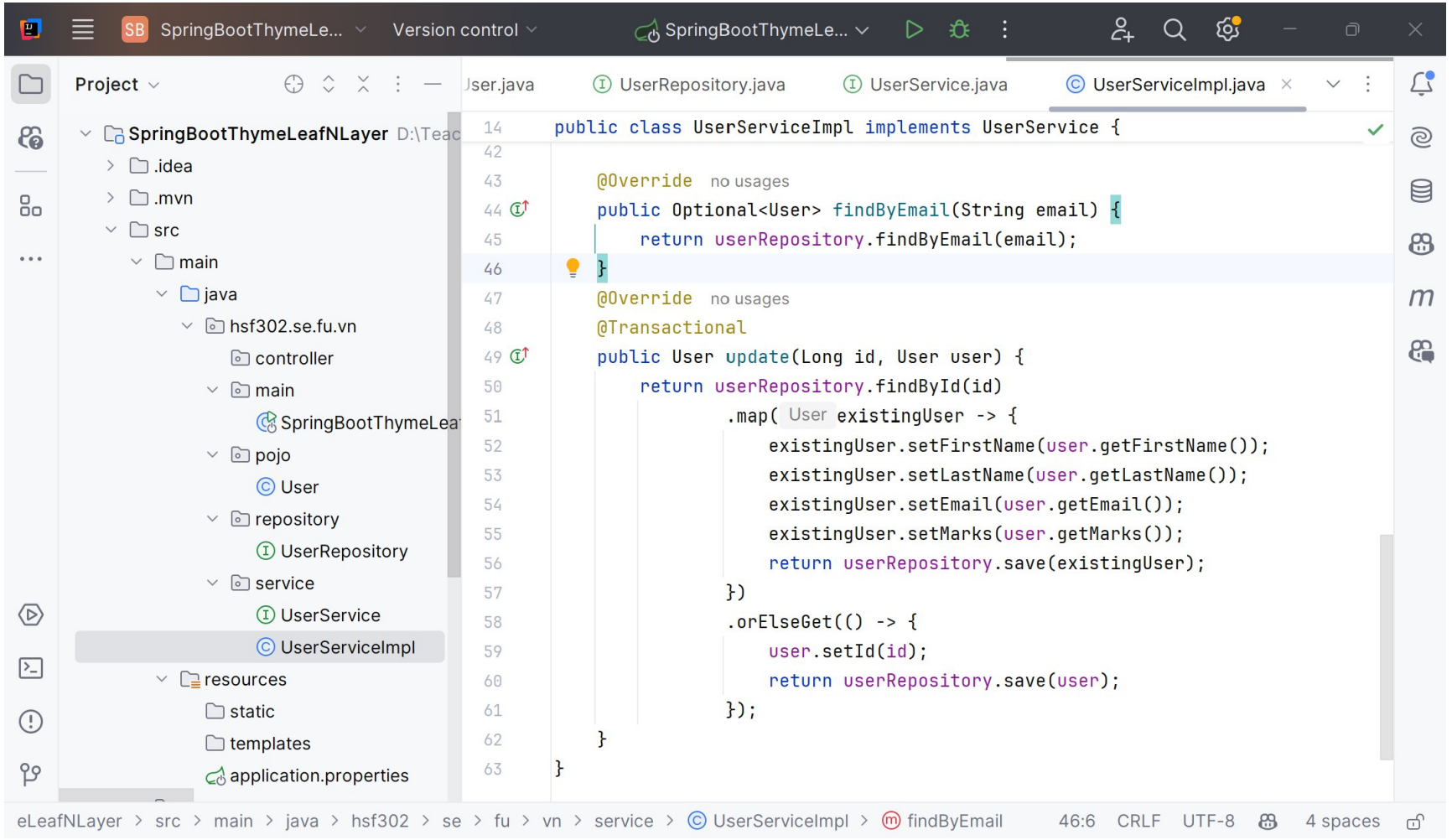
Create the UserServiceImpl.java



Create the UserServiceImpl.java



Create the UserServiceImpl.java



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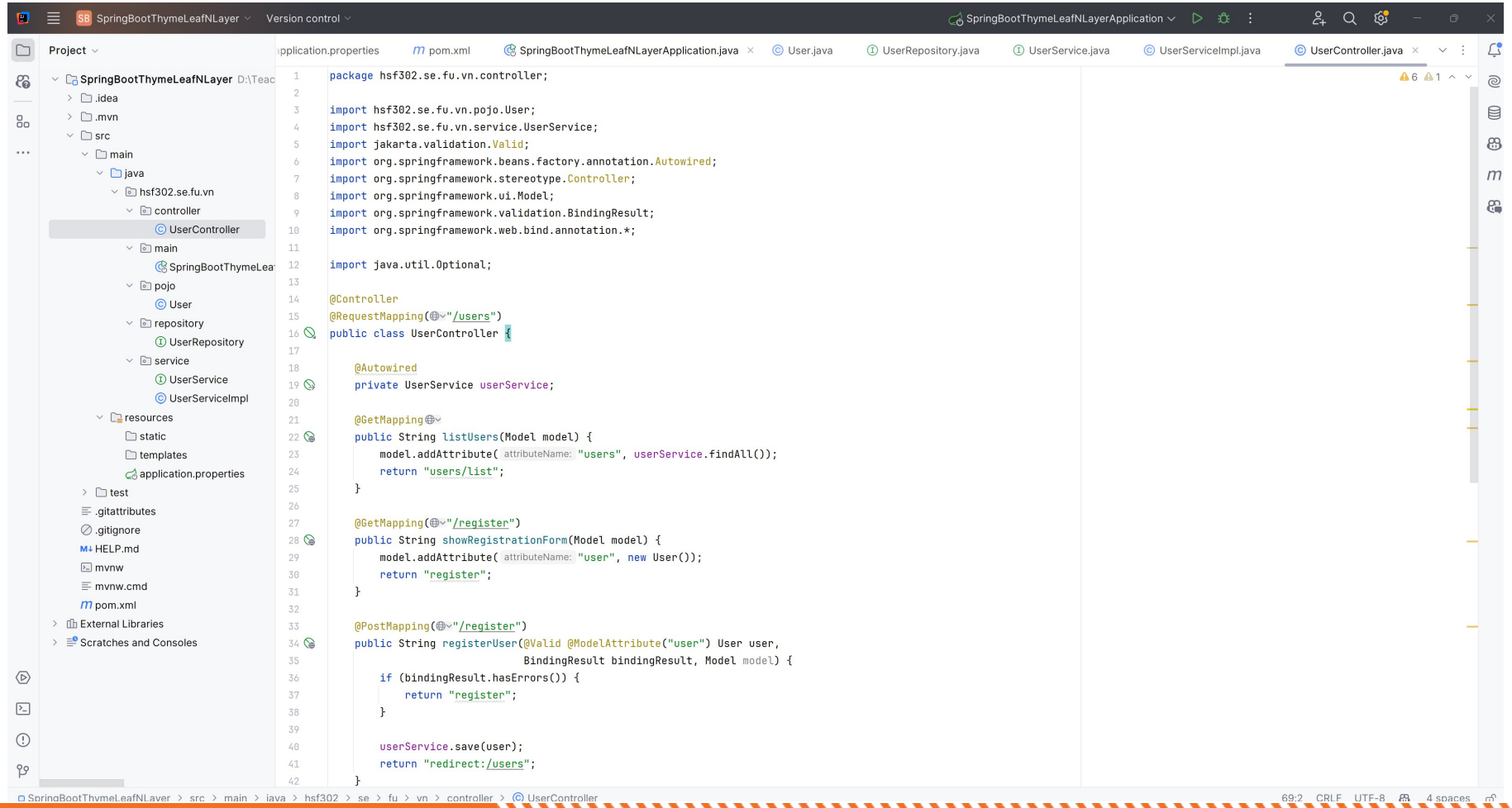
UserController



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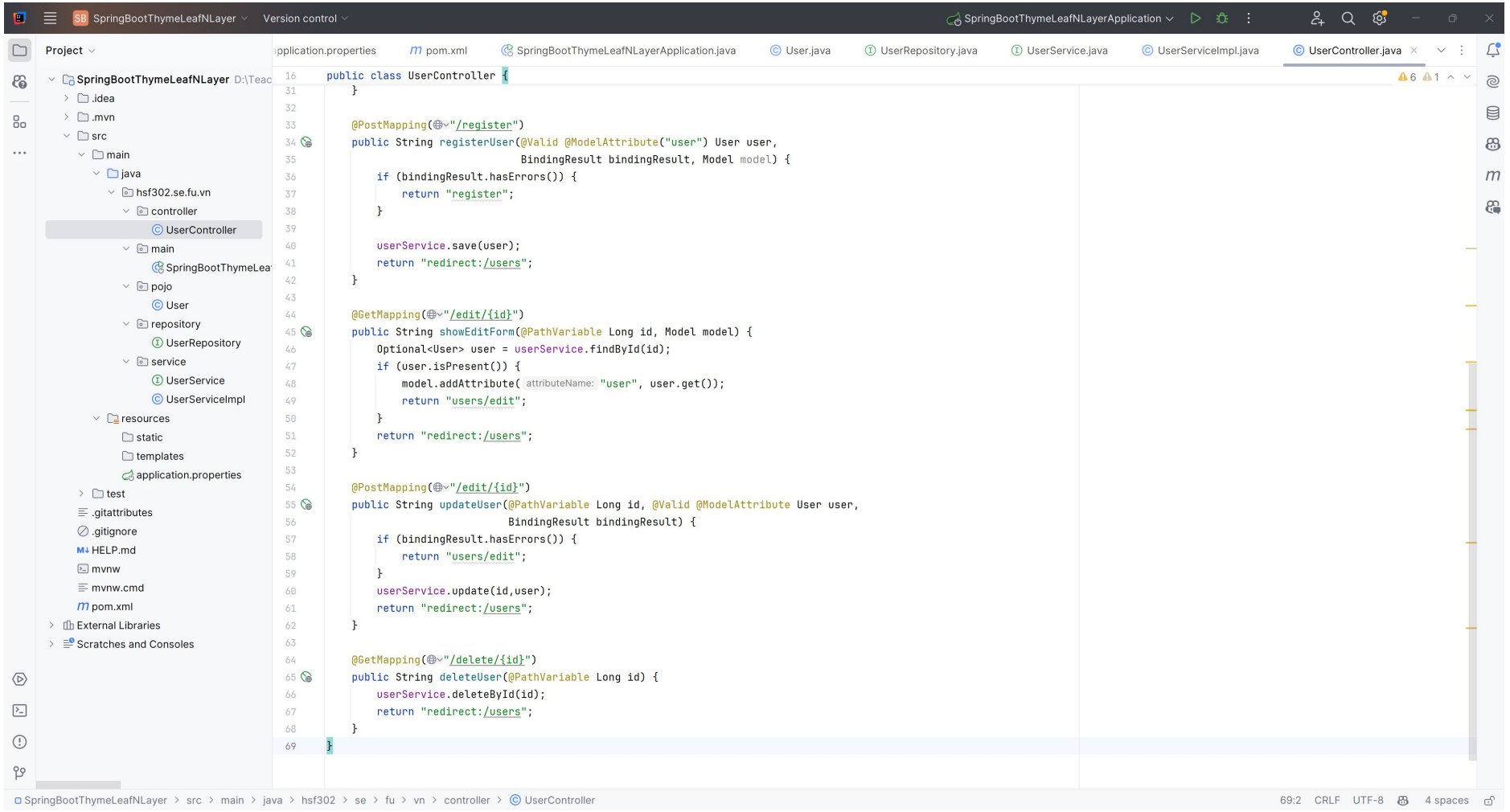
UserController



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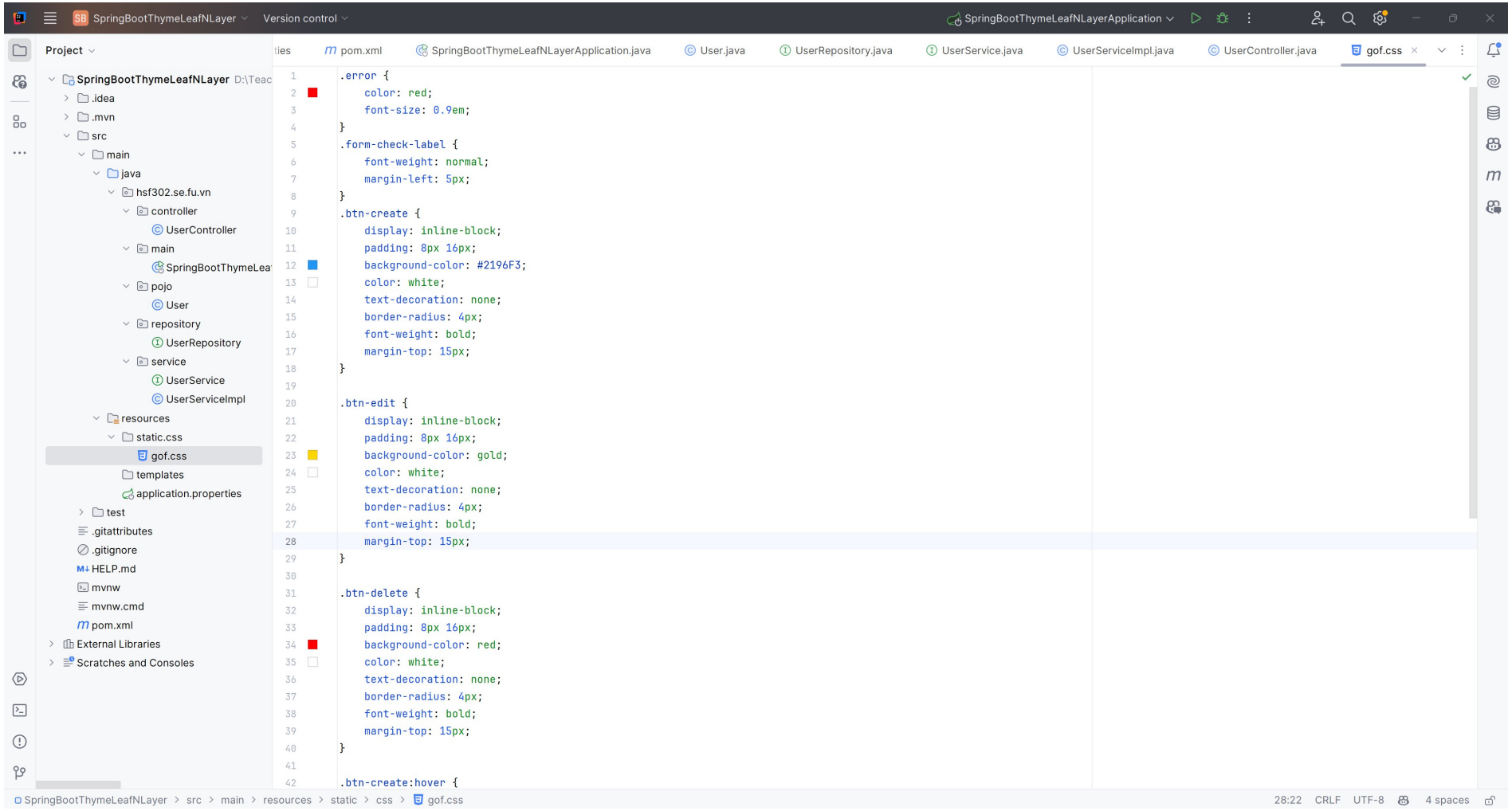
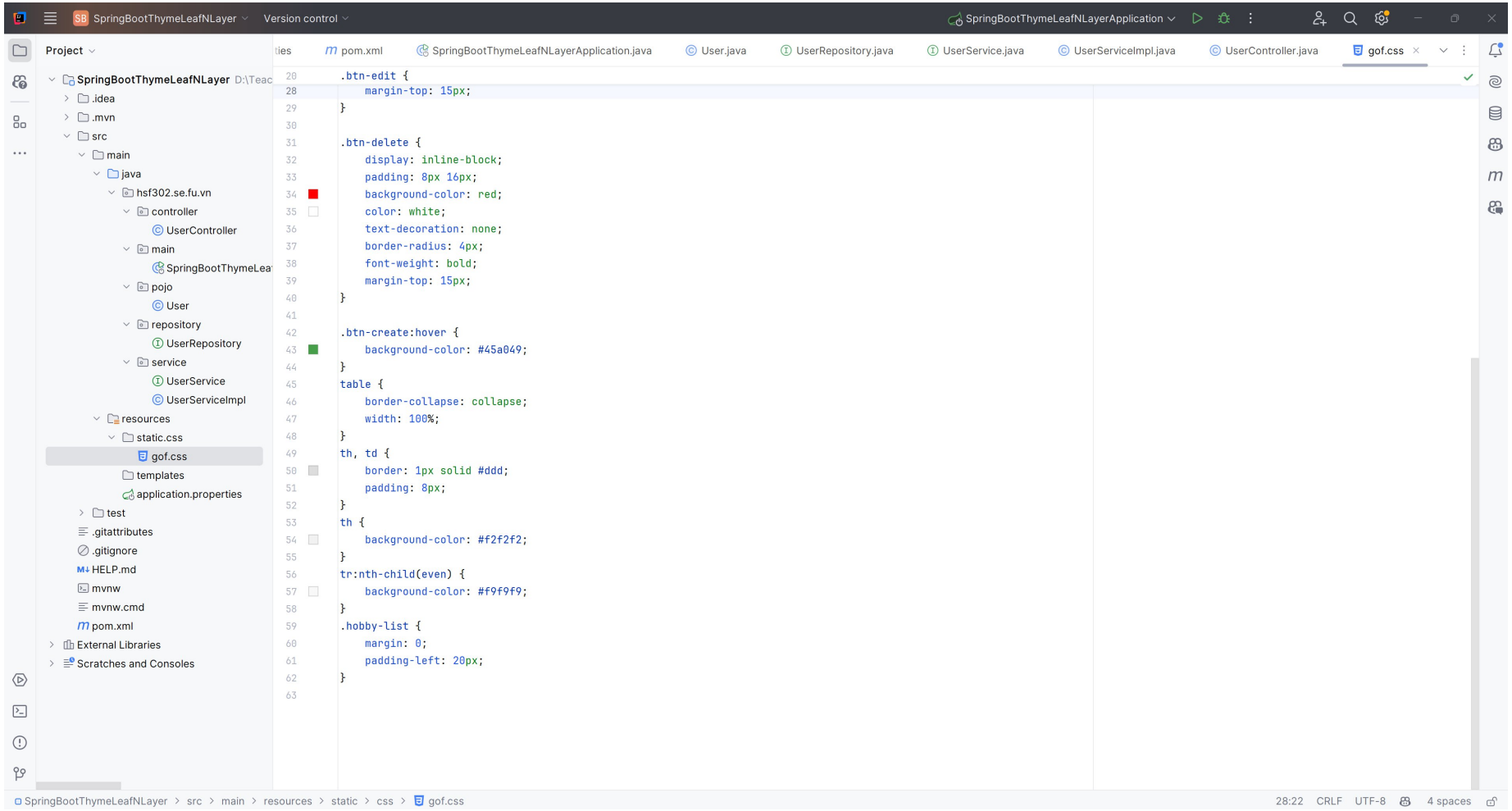
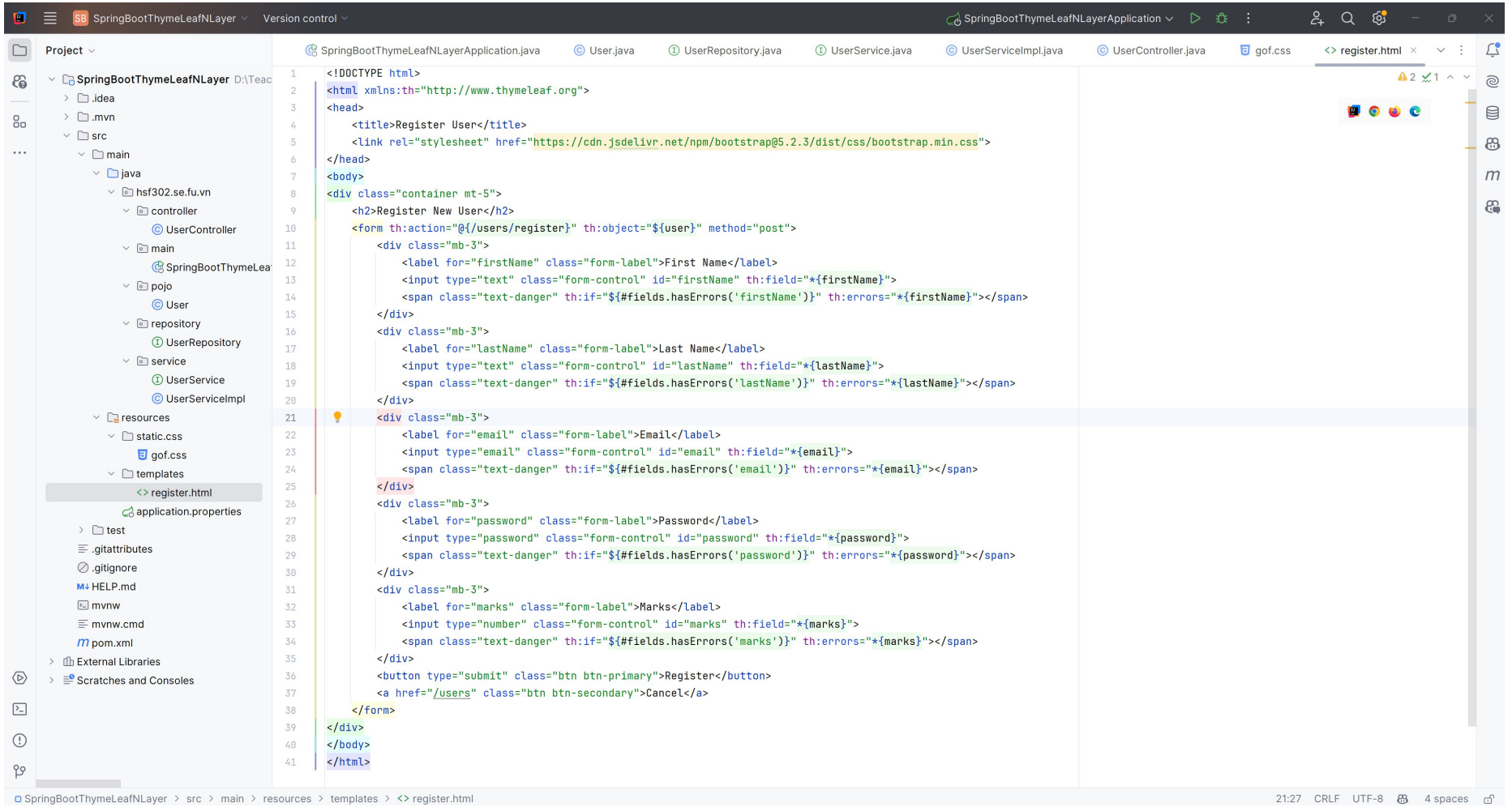
Create the css



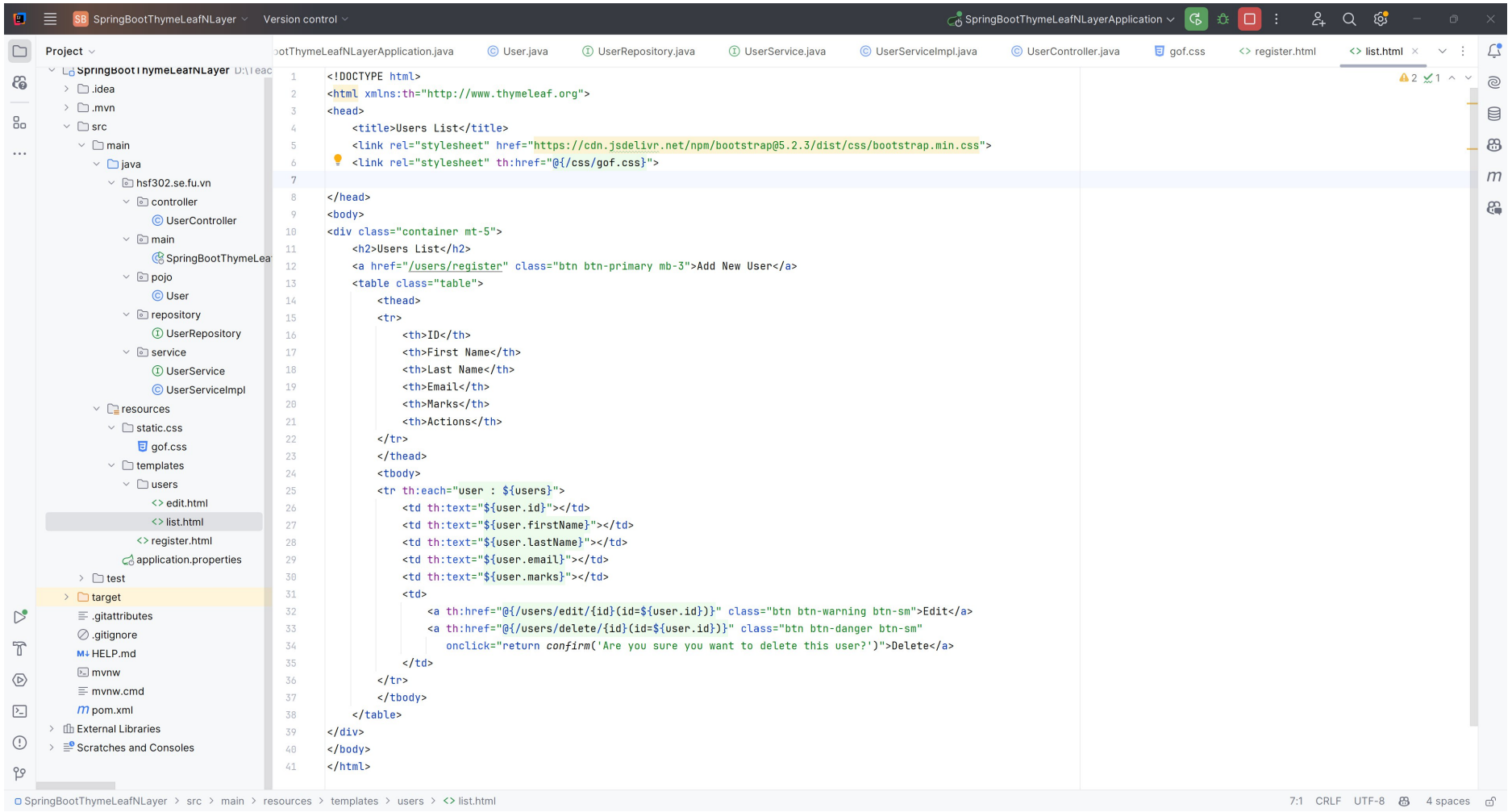
Create the css



Create register.html



Create list.html



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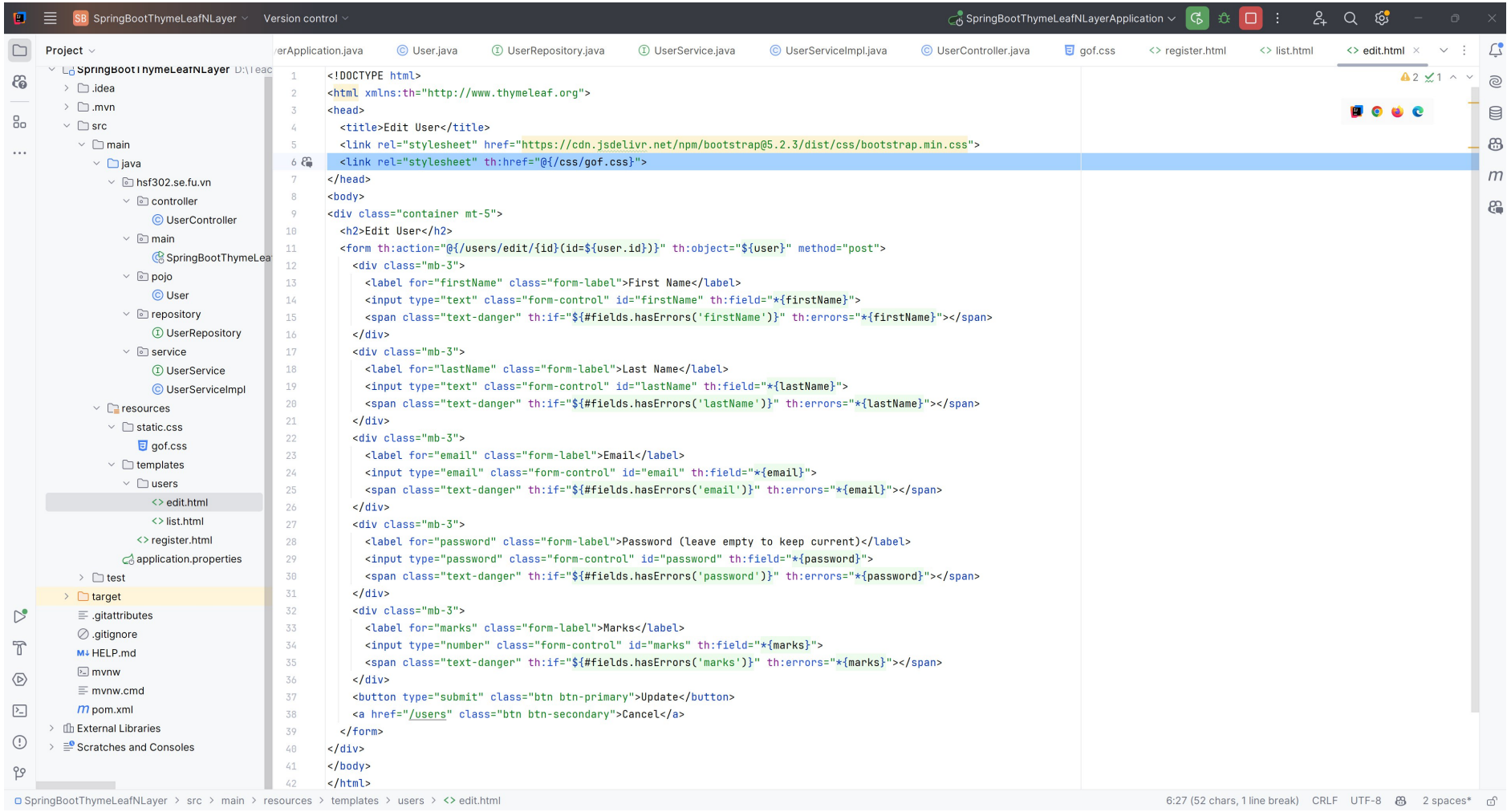
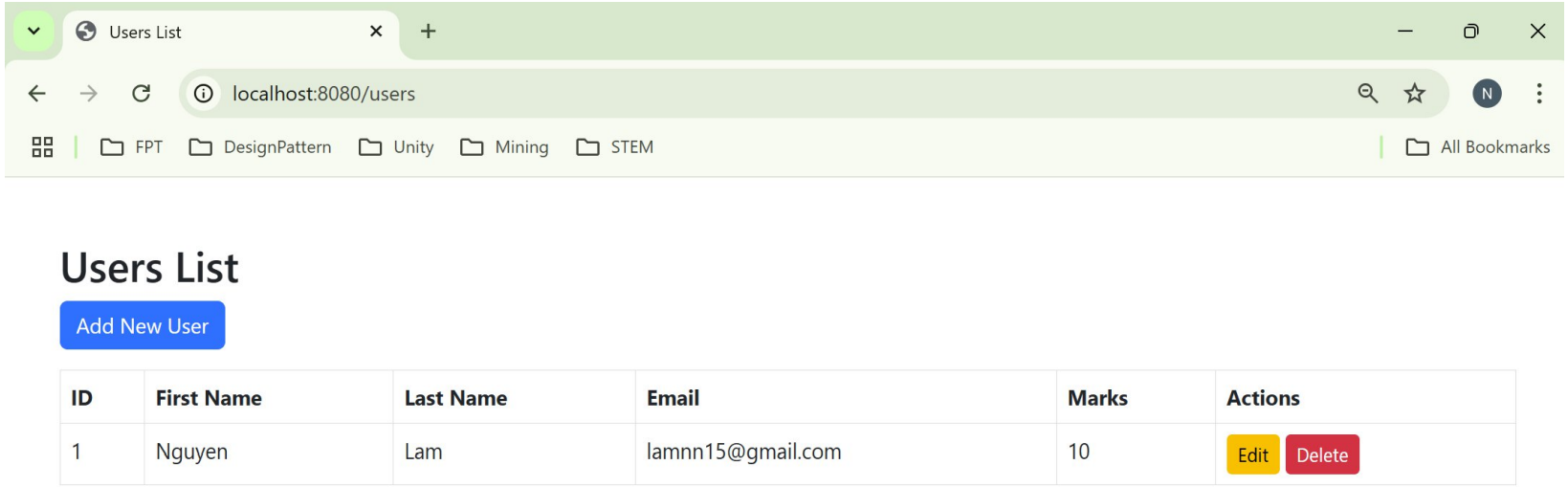
Create edit.html

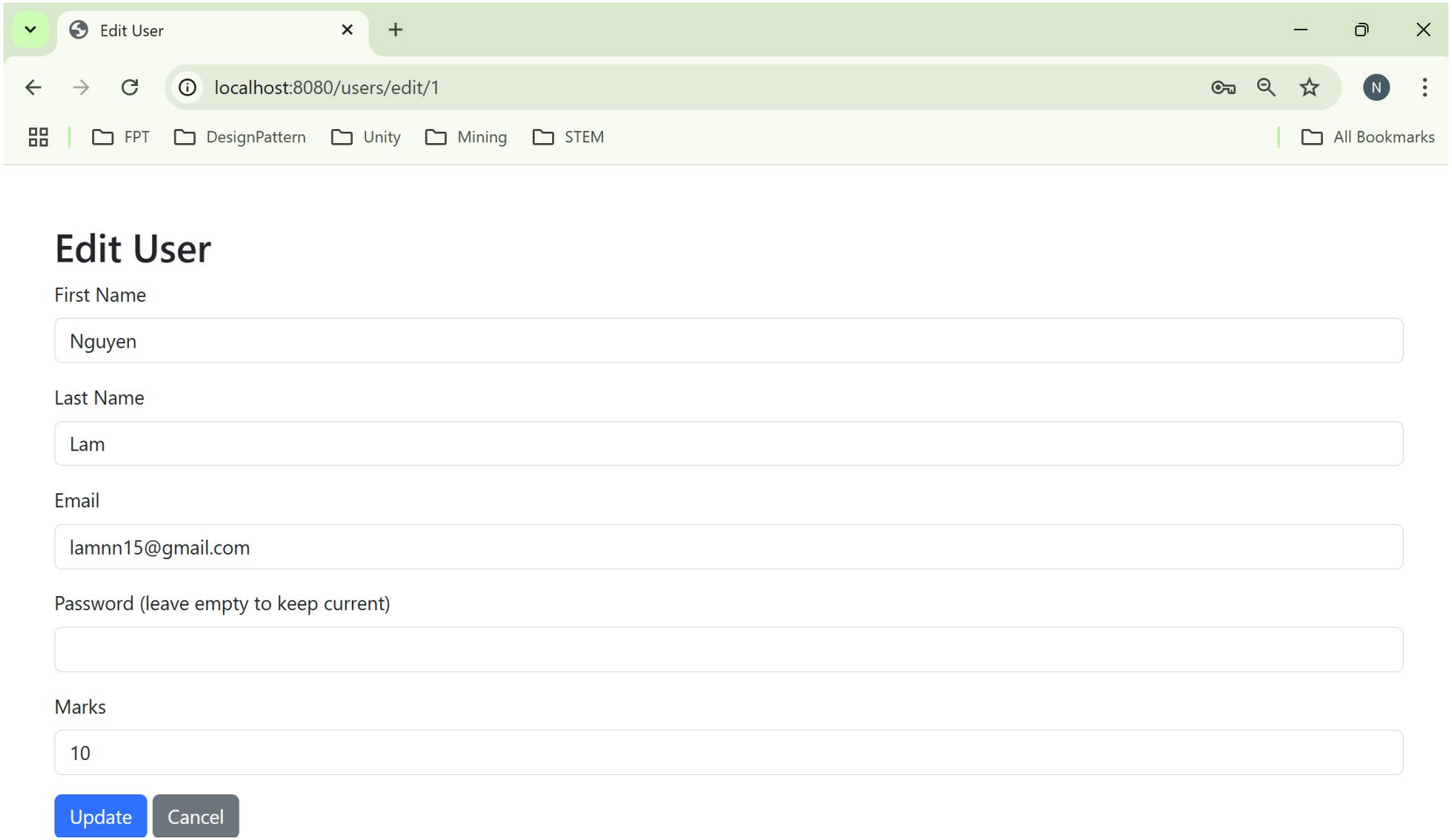
Java



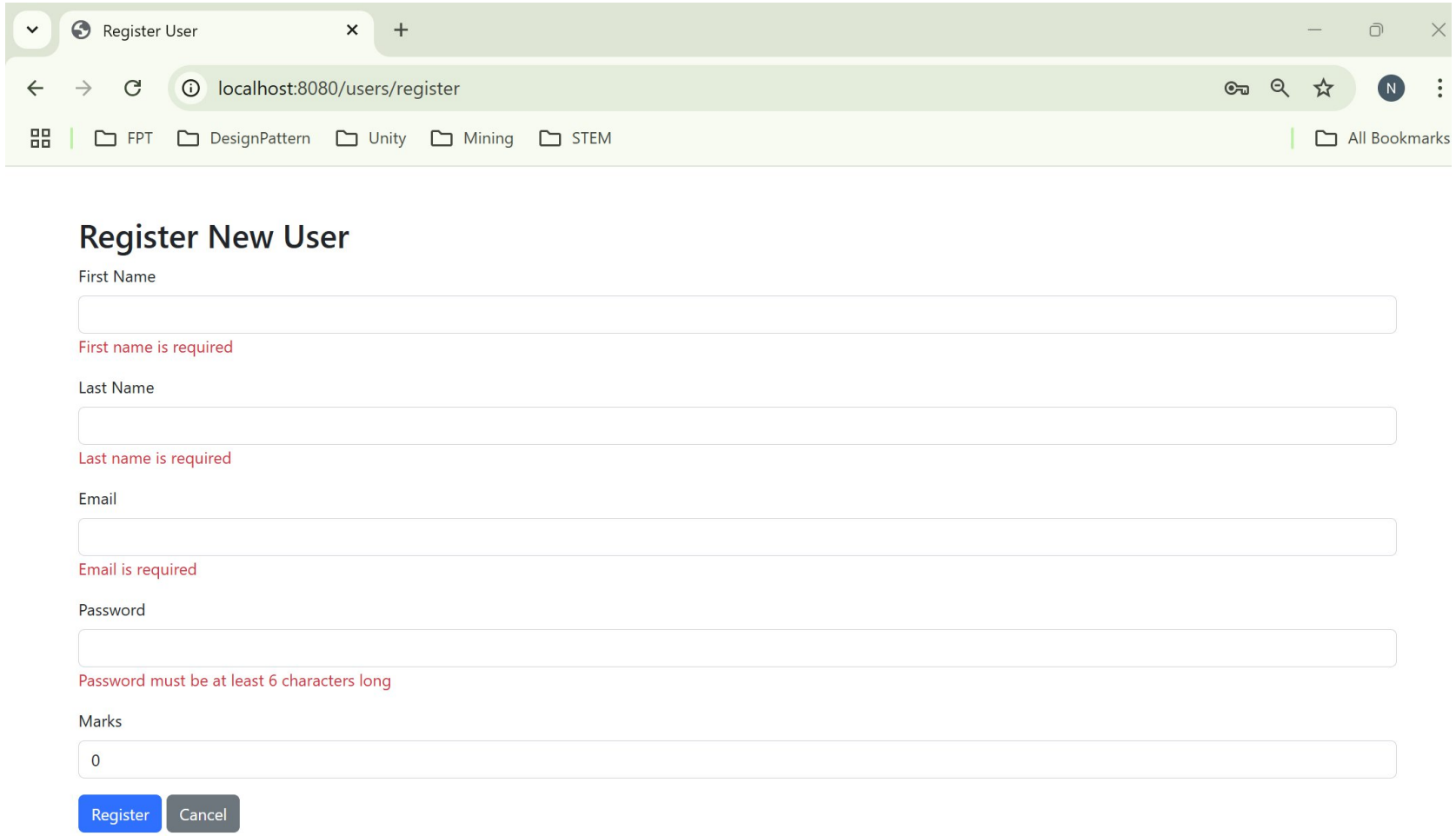
Result


Users List
localhost:8080/users
FPT
DesignPattern
Unity
Mining
STEM
All Bookmarks
Users List
Add New User
ID
First Name
Last Name
Email
Marks
Actions
1
Nguyen
Lam
lamnn15@gmail.com
10
Edit
Delete

Result


Edit User
localhost:8080/users/edit/1
FPT
DesignPattern
Unity
Mining
STEM
All Bookmarks
Edit User
First Name
Nguyen
Last Name
Lam
Email
lamnn15@gmail.com
Password (leave empty to keep current)
Marks
10
Update
Cancel

Result


Register User
localhost:8080/users/register
FPT
DesignPattern
Unity
Mining
STEM
All Bookmarks
Register New User
First Name
First name is required
Last Name
Last name is required
Email
Email is required
Password
Password must be at least 6 characters long
Marks
0
Register
Cancel

Summary

The concepts are introduced:

- Create a new Maven project in Eclipse IDE
- Add the necessary dependencies for Spring MVC and data access
- Create the Model - Define the entity classes that represent domain objects
- Define the data access object (DAO) interfaces and their implementations for interacting with the database.
- Create the Controller
- Set Up the Views
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