How to create Spring-Boot Application in Eclipse IDE

Pre-requiste

- Spring Tool Suite extention should be installed from Eclipse-Marketplace

Steps:

1. Click on File → New → Spring Starter Project

    (If you don't see it: File → New → Other… → type "Spring Starter Project".)

2. Setting Up Project Name:

    Name: demo-thymeleaf-actuator

    Type: Maven

    Packaging: Jar

    Java: 17 or 21 (match your JDK)

    Group: com.example

    Artifact: demo

    Click Next.

3. Choose dependencies:

    Search & select:

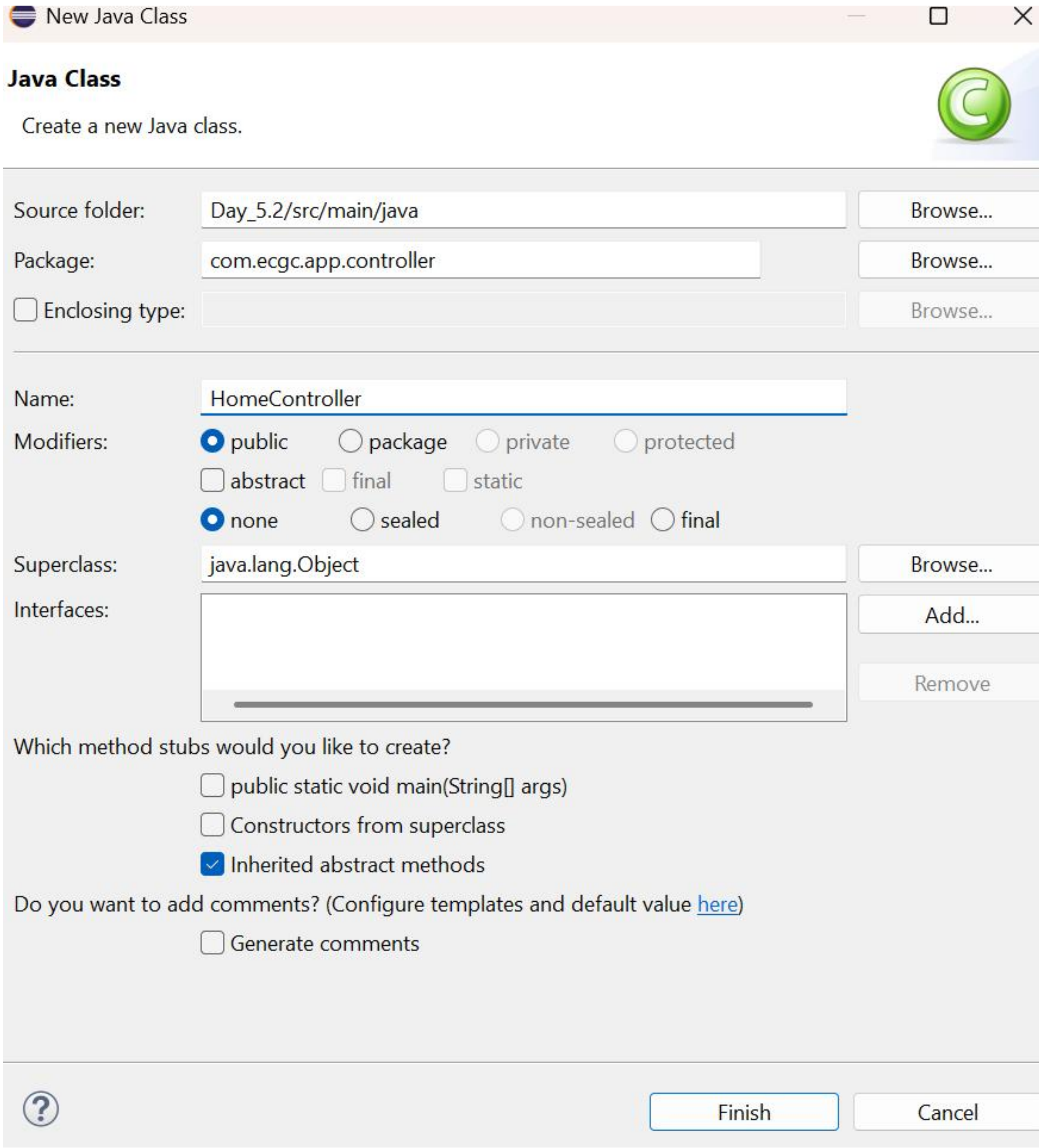
        Spring Web

        Thymeleaf

        Spring Boot Actuator

4. Click Finish. Eclipse generates and opens the project.

5. Add a simple controller in src/main/jav/com/example/demo under package controller:



New Java Class

Java Class

Create a new Java class.

Source folder: Day_5.2/src/main/java

Package: com.ecgc.app.controller

□ Enclosing type:

Name: HomeController

Modifiers: ● public ○ package ○ private ○ protected

□ abstract □ final □ static

● none ○ sealed ○ non-sealed ○ final

Superclass: java.lang.Object

Interfaces:

Which method stubs would you like to create?

□ public static void main(String[] args)

□ Constructors from superclass

☑ Inherited abstract methods

Do you want to add comments? (Configure templates and default value here)

□ Generate comments

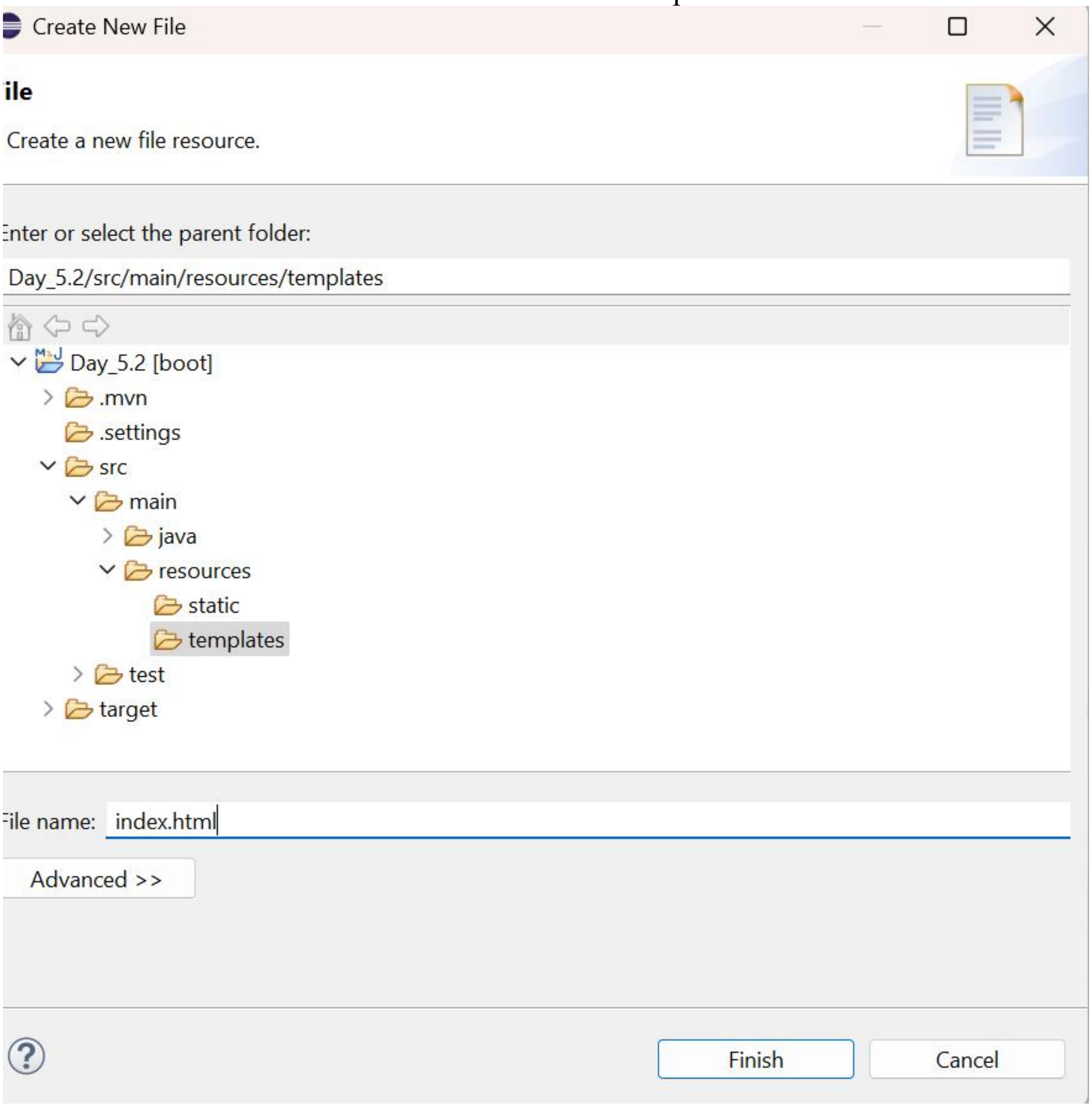
HomeController.java Code

```
package com.example.demo.controller;
import org.springframework.stereotype.Controller;
import org.springframework.ui.Model;
import org.springframework.web.bind.annotation.GetMapping;

@Controller
public class HomeController {
   @GetMapping("/")
   public String home(Model model) {
      model.addAttribute("appName", "Spring Boot + Thymeleaf + Actuator");
      return "index"; // maps to src/main/resources/templates/index.html
   }
}
```

6. Add a Thymeleaf template

Add index.html under src/main/resources/templates folder:



Create New File

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Create a new file resource.

:nter or select the parent folder:

Day_5.2/src/main/resources/templates

File name: index.html

Index.html Code

```
<!doctype html>
<html xmlns:th="http://www.thymeleaf.org">
<head>
  <meta charset="UTF-8">
  <title th:text="${appName}">App</title>
</head>
<body>
  <h1 th:text="${appName}">App</h1>
  <p>Hello from Thymeleaf!</p>
  <p><a href="/actuator/health">Actuator Health</a></p>
</body>
</html>
```

7. Configure application properties (dev-friendly)

```
spring.application.name=demo-thymeleaf-actuator
server.port=8080

# Actuator: expose selected endpoints in dev
management.endpoints.web.exposure.include=health,info
management.endpoint.health.show-details=always

# Thymeleaf: disable cache for dev
spring.thymeleaf.cache=false
```

8. For a quick demo of all endpoints, you can use

`management.endpoints.web.exposure.include=*` in dev only; avoid in prod

9. Run the app

Right-click project → Run As → Spring Boot App

10. Test in browser

Home: http://localhost:8080/

Actuator health: http://localhost:8080/actuator/health

Actuator info: http://localhost:8080/actuator/info (empty by default)