

Spring Boot Minimal Project Structure

Single module structure with basic REST controller. Ideal for learning Spring Boot, quick prototypes, and small APIs.

#spring-boot #java #rest #api #minimal

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Project Directory

myproject/

```
> src/
  > main/
    > java/
      > com/example/demo/ Base package
      |   DemoApplication.java @SpringBootAppl...
      |   HelloController.java @RestController
    > resources/
      |   application.properties Or .yaml
      |   static/ Static assets
      |   templates/ Thymeleaf templ...
  > test/
    > java/
      > com/example/demo/
      |   DemoApplicationTests.java @SpringBootTest
  pom.xml Maven build
  .gitignore
  README.md
```

Why This Structure?

This is Spring Initializr's default structure—everything in one package. The `@SpringBootApplication` class bootstraps the app with auto-configuration. Perfect for understanding Spring Boot fundamentals before adding layers.

Key Directories

src/main/java/ - All Java source code, organized by package
src/main/resources/ - Configuration files, static assets, templates
application.properties - Server port, database URL, and all configuration

Getting Started

1. `./mvnw spring-boot:run` (or `mvn spring-boot:run`)
2. Visit `http://localhost:8080`
3. Edit `application.properties` for configuration

When To Use This

- Learning Spring Boot patterns
- Quick prototypes and MVPs
- Simple microservices with few endpoints
- Internal tools and utilities
- Proof of concept implementations

When To Upgrade

- More than 5-10 endpoints needed
- Database access required
- Multiple developers on the project
- Need separation of concerns
- Business logic becoming complex

Trade-offs

No layers - Controller handles everything—add services when logic grows
No database - Add Spring Data JPA when persistence is needed
Flat package - All classes in one package—fine for small projects