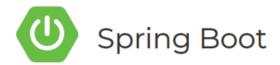
스프링부트

https://spring.io/projects/spring-boot



BUILD ANYTHING WITH SPRING BOOT

Spring Boot is the starting point for building all Springbased applications. Spring Boot is designed to get you up and running as quickly as possible, with minimal upfront configuration of Spring.

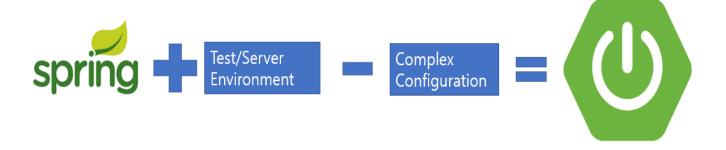
- Get started in seconds using Spring Initializr
- Build anything: REST API, WebSocket, web, streaming, tasks, and more
- Simplified security
- Rich support for SQL and NoSQL
- Embedded runtime support: Tomcat, Jetty, and Undertow
- Developer productivity tools such as LiveReload and Auto Restart
- Curated dependencies that just work
- Production-ready features such as tracing, metrics, and health status
- Works in your favorite IDE: Spring Tool Suite, IntelliJ IDEA, and NetBeans

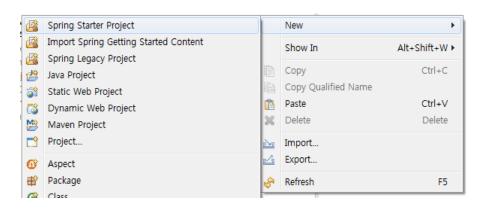


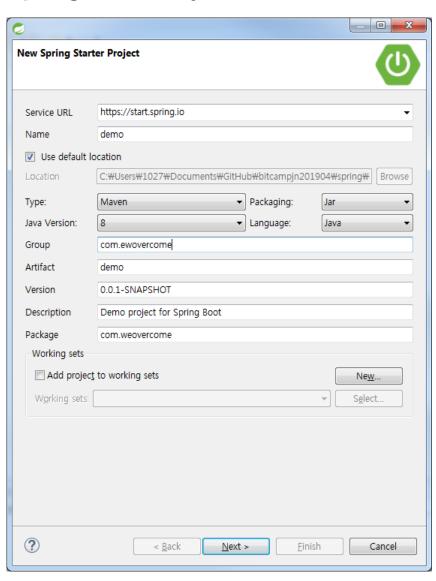
https://spring.io/

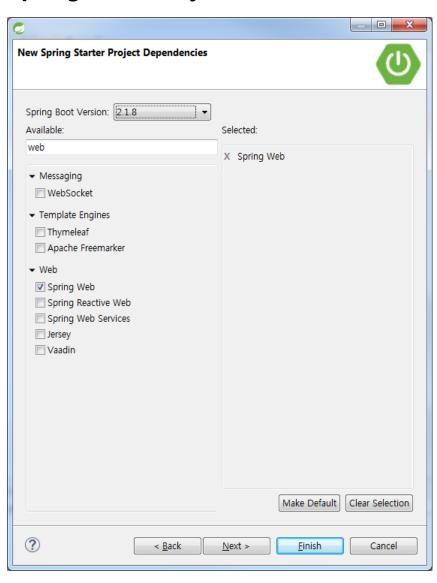
- 단독으로 실행 가능하고 제품 수준의 스프링기반 어플리케이션을 제작하는 것을
 목표로 진행된 프로젝트
- 주요기능
 - 단독실행 가능한 수준의 스프링 애플리케이션 개발 가능
 - 내장된 WAS(예. Tomcat)를 이용해서 별도의 서버 설치 없이 실행 가능
 - _ 최대한 자동화된 설정
 - XML 설정 없이 단순한 설정 방식 제공

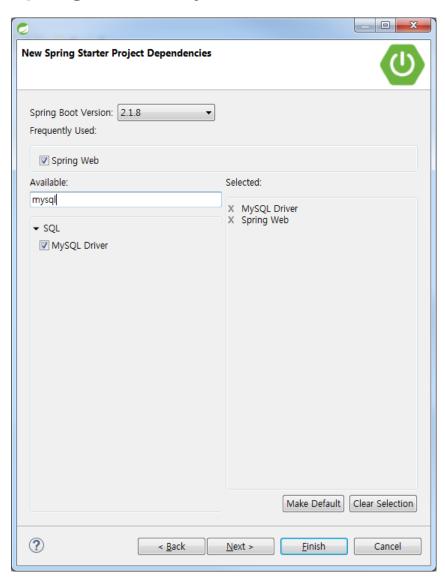
- Spring Boot가 해결하는 것들
 - 자동화된 라이브러리 관리
 - Spring Boot Auto Configuration
 - 라이브러리의 자동 결정과 XML없는 환경
 - 테스트 환경과 내장 Tomcat

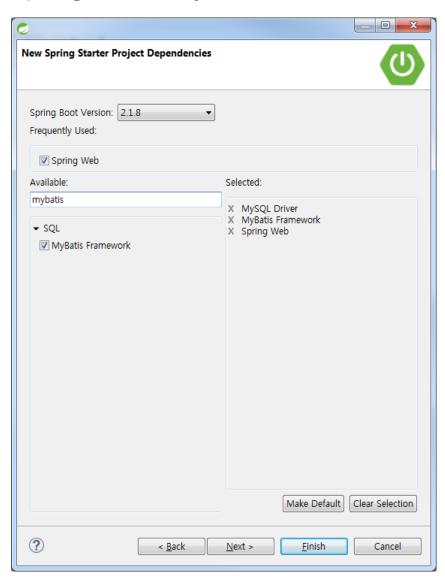


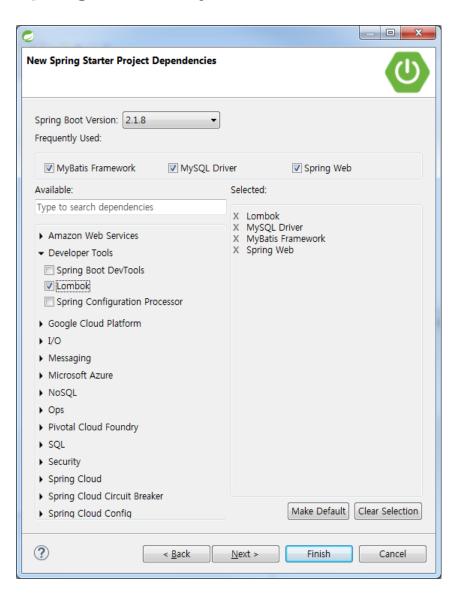


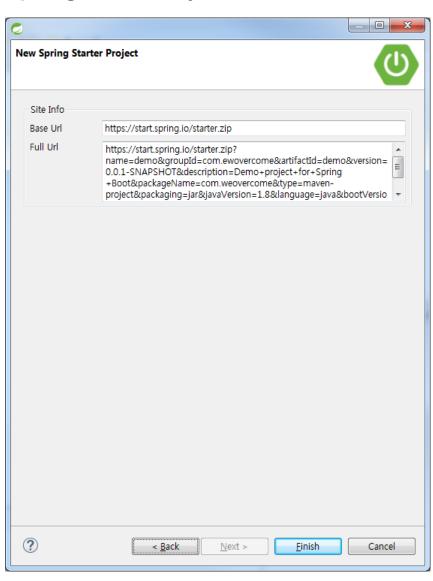


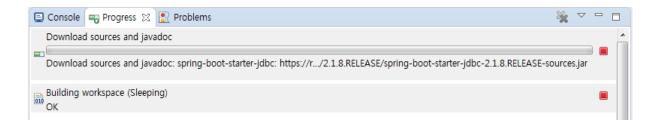


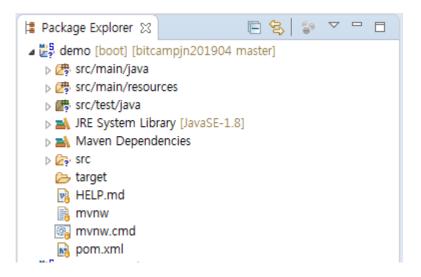


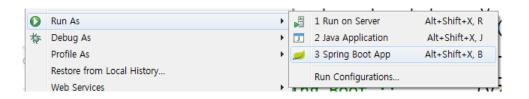










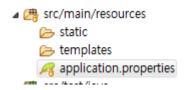


```
:: Spring Boot ::
                          (v2.1.8.RELEASE)
2019-09-10 11:58:54.617 INFO 6172 ---
                                                   main | com.weovercome.DemoApplication
                                                                                                   : Starting DemoApplication on BIT01-00 with
                                                   main | com.weovercome.DemoApplication
                                                                                                   : No active profile set, falling back to de
2019-09-10 11:58:54.617
                        INFO 6172 ---
                                                   mainl o.s.b.w.embedded.tomcat.TomcatWebServer
                                                                                                  : Tomcat initialized with port(s): 8080 (ht
2019-09-10 11:58:55.179
                        INFO 6172 ---
                                                   main] o.apache.catalina.core.StandardService
                                                                                                   : Starting service [Tomcat]
2019-09-10 11:58:55.194 INFO 6172 ---
2019-09-10 11:58:55.194
                        INFO 6172 ---
                                                   main] org.apache.catalina.core.StandardEngine
                                                                                                  : Starting Servlet engine: [Apache Tomcat/9
2019-09-10 11:58:55.242 INFO 6172 ---
                                                   main] o.a.c.c.C.[Tomcat].[localhost].[/]
                                                                                                   : Initializing Spring embedded WebApplicati
                                                   main] o.s.web.context.ContextLoader
                                                                                                   : Root WebApplicationContext: initialization
2019-09-10 11:58:55.242
                        INFO 6172
                                                   mainl o.s.s.concurrent.ThreadPoolTaskExecutor
                                                                                                   : Initializing ExecutorService 'application
2019-09-10 11:58:55.414 INFO 6172 ---
2019-09-10 11:58:55.523
                        INFO 6172 ---
                                                   mainl o.s.b.w.embedded.tomcat.TomcatWebServer
                                                                                                  : Tomcat started on port(s): 8080 (http) wi
2019-09-10 11:58:55.523
                        INFO 6172 ---
                                                   main] com.weovercome.DemoApplication
                                                                                                   : Started DemoApplication in 1.124 seconds
2019-09-10 11:59:13.476 INFO 6172 --- [nio-8080-exec-1] o.a.c.c.C.[Tomcat].[localhost].[/]
                                                                                                   : Initializing Spring DispatcherServlet 'di
2019-09-10 11:59:13.476 INFO 6172 --- [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet
                                                                                                   : Initializing Servlet 'dispatcherServlet'
2019-09-10 11:59:13.481 INFO 6172 --- [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet
                                                                                                   : Completed initialization in 5 ms
```

Spring Boot + Mysql



- static : HTML, CSS, JavaScript, 이미지 파일들을 보관하는 경로
- templates : Thymeleaf와 같은 템플릿 경로
- application.properties : 에플리케이션 내의 설정파일

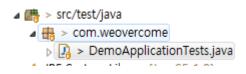


DataSource 설정

- @Bean 을 이용한 DataSource 설정
- application.properties 를 이용한 데이터 설정

```
spring.datasource.driver-class-name=com.mysql.jdbc.Driver
spring.datasource.url=jdbc:mysql://localhost:3306/project?auto
Reconnect=true&useSSL=false&serverTimezone=UTC
spring.datasource.username=bit
spring.datasource.password=bit
```

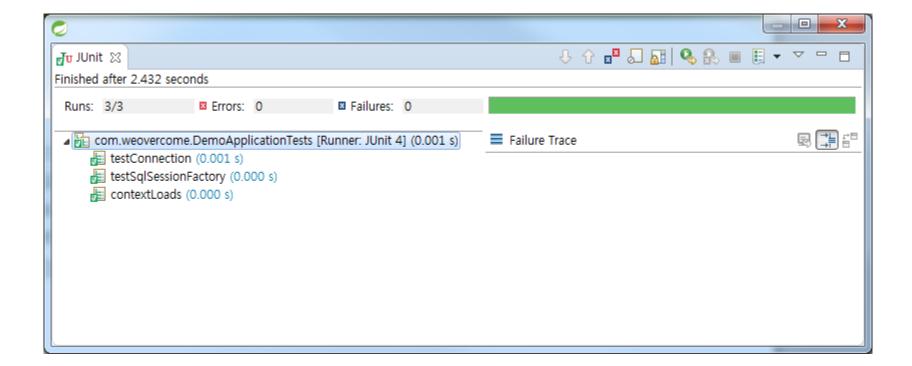
· datasource 테스트



```
package com.weovercome;
import java.sql.Connection;
import java.sql.SQLException;
import javax.sql.DataSource;
import org.junit.Test;
import org.junit.runner.RunWith;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.boot.test.context.SpringBootTest;
import org.springframework.test.context.junit4.SpringRunner;
@RunWith(SpringRunner.class)
@SpringBootTest
public class DemoApplicationTests {
            @Autowired
            private DataSource datasource;
            @Test
            public void contextLoads() {
            @Test
            public void testConnection() throws SQLException {
                        System.out.println(datasource);
                        Connection conn = datasource.getConnection();
                        System.out.println(conn);
                        conn.close();
}
```

Mybatis 설정

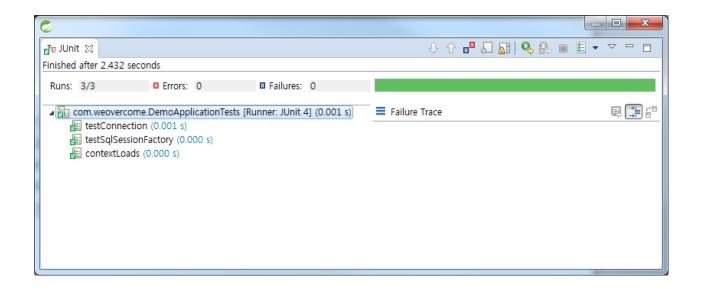
```
<dependency>
     <groupId>org.mybatis.spring.boot</groupId>
          <artifactId>mybatis-spring-boot-starter</artifactId>
          <version>2.1.0</version>
</dependency>
```



Mybatis 설정

```
@Autowired
private SqlSessionFactory sessionFactory;

@Test
public void testSqlSessionFactory() {
         System.out.println(sessionFactory);
}
```



MemberInfo.java

```
Com.weovercome.domain
MemberInfo.java
```

```
package com.weovercome.domain;
public class MemberInfo {
         private int idx;
         private String uld;
         private String uPW;
         private String uName;
         private String uPhoto;
         private Date date;
         private char verify;
         private String code;
         // default 생성자 필수
         public MemberInfo() {
                   this.date = new Date();
                   getRandomSting();
         // 변수들의 Getter/Setter 시작
```

Mapper 생성

description:
 descr

Mapper 설정

```
package com.weovercome;
import org.mybatis.spring.annotation.MapperScan;
@SpringBootApplication
@MapperScan("com.weovercome.mapper")
public class DemoApplication {
    public static void main(String[] args) {
        SpringApplication.run(DemoApplication.class, args);
    }
}
```

외부 XML mapper 설정

```
□ src/main/resources
□ mappers
□ memberMapper.xml
□ static
□ templates
□ application.properties
□ src/main/resources
□ spring.d
□ spring.d
□ spring.d
□ spring.d
□ spring.d
□ spring.d
```

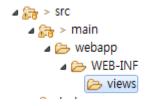
```
1 spring.datasource.driver-class-name=com.mysql.jdbc.Driver
2 spring.datasource.url=jdbc:mysql://localhost:3306/project?a
3 spring.datasource.username=bit
4 spring.datasource.password=bit
5
6 mybatis.mapper-locations=classpath:/mappers/*.xml
```

- View 처리 방법
 - _ JSP 사용방법
 - apllication.properties 설정 변경
 - Tomcat 서버의 JSP 설정 변경
 - Thymeleaf 사용방법

• JSP사용 설정

apllication.properties 설정 변경

```
1 spring.datasource.driver-class-name=com.mysql.jdbc.Driver
2 spring.datasource.url=jdbc:mysql://localhost:3306/project?autoReco
3 spring.datasource.username=bit
4 spring.datasource.password=bit
5
6 mybatis.mapper-locations=classpath:/mappers/*.xml
7
8 spring.mvc.view.prefix=/WEB-INF/views/
9 spring.mvc.view.suffix=.jsp
```



경로에 맞게 폴더 생성해야 한다. main > webapp > WEB-INF > views

- JSP사용 설정
 - Tomcat 서버의 JSP 설정 변경

```
<dependency>
<groupId>org.apache.tomcat.embed</groupId>
<artifactId>tomcat-embed-jasper</artifactId>
</dependency>
<dependency>
<groupId>javax.servlet</groupId>
<artifactId>jstl</artifactId>
</dependency></dependency>
```

- Github
 - https://github.com/ryuyj/bitcampjn201904/tree/master/spring/demo