빌드 및 설치 매뉴얼

**시작하기**

Maven 의존성

<?*xml version*="1.0" *encoding*="UTF-8"?>  
<project *xmlns*="http://maven.apache.org/POM/4.0.0" *xmlns:xsi*="http://www.w3.org/2001/XMLSchema-instance"  
 *xsi:schemaLocation*="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">  
  
 <modelVersion>4.0.0</modelVersion>  
 <parent>  
 <groupId>org.springframework.boot</groupId>  
 <artifactId>spring-boot-starter-parent</artifactId>  
 <version>2.1.3.RELEASE</version>  
 <relativePath/> *<!-- lookup parent from repository -->* </parent>  
 <groupId>net.skhu</groupId>  
 <artifactId>demo</artifactId>  
 <version>0.0.1-SNAPSHOT</version>  
 <packaging>war</packaging>  
 <name>vote</name>  
 <description>School System Voting</description>  
  
 <properties>  
 <java.version>1.8</java.version>  
 <maven.compiler.source>${java.version}</maven.compiler.source>  
 <maven.compiler.target>${java.version}</maven.compiler.target>  
 <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>  
 <project.reporting.outputEncoding>UTF-8</project.reporting.outputEncoding>  
 <security.version>5.0.6.RELEASE</security.version>  
 </properties>  
  
 <dependencies>  
  
 *<!-- add params -->* <dependency>  
 <groupId>org.junit.jupiter</groupId>  
 <artifactId>junit-jupiter-params</artifactId>  
 <version>5.4.0-M1</version>  
 <scope>test</scope>  
 </dependency>  
  
 *<!-- 개발용 -->* <dependency>  
 <groupId>org.springframework.boot</groupId>  
 <artifactId>spring-boot-devtools</artifactId>  
 <scope>runtime</scope>  
 </dependency>  
  
 <dependency>  
 <groupId>org.mybatis.spring.boot</groupId>  
 <artifactId>mybatis-spring-boot-starter</artifactId>  
 <version>1.3.2</version>  
 </dependency>  
  
 <dependency>  
 <groupId>org.springframework.boot</groupId>  
 <artifactId>spring-boot-starter-web</artifactId>  
 </dependency>  
  
 <dependency>  
 <groupId>javax.servlet</groupId>  
 <artifactId>jstl</artifactId>  
 <version>1.2</version>  
 </dependency>  
 <dependency>  
 <groupId>org.apache.tomcat.embed</groupId>  
 <artifactId>tomcat-embed-jasper</artifactId>  
 </dependency>  
  
 <dependency>  
 <groupId>mysql</groupId>  
 <artifactId>mysql-connector-java</artifactId>  
 <scope>runtime</scope>  
 </dependency>  
 <dependency>  
 <groupId>org.projectlombok</groupId>  
 <artifactId>lombok</artifactId>  
 <optional>true</optional>  
 </dependency>  
 <dependency>  
 <groupId>org.springframework.boot</groupId>  
 <artifactId>spring-boot-starter-tomcat</artifactId>  
 <scope>provided</scope>  
 </dependency>  
 <dependency>  
 <groupId>org.springframework.boot</groupId>  
 <artifactId>spring-boot-starter-test</artifactId>  
 <exclusions>  
 <exclusion>  
 <groupId>junit</groupId>  
 <artifactId>junit</artifactId>  
 </exclusion>  
 </exclusions>  
 <scope>test</scope>  
 </dependency>  
  
 *<!-- Provide JUnit 5 API -->* <dependency>  
 <groupId>org.junit.jupiter</groupId>  
 <artifactId>junit-jupiter-api</artifactId>  
 <scope>test</scope>  
 </dependency>  
 *<!-- and the engine for surefire and failsafe -->* <dependency>  
 <groupId>org.junit.jupiter</groupId>  
 <artifactId>junit-jupiter-engine</artifactId>  
 <scope>test</scope>  
 </dependency>  
 <dependency>  
 <groupId>org.junit.vintage</groupId>  
 <artifactId>junit-vintage-engine</artifactId>  
 <scope>test</scope>  
 </dependency>  
 <dependency>  
 <groupId>org.mockito</groupId>  
 <artifactId>mockito-junit-jupiter</artifactId>  
 <scope>test</scope>  
 </dependency>  
  
  
 *<!-- AWS -->* <dependency>  
 <groupId>org.springframework.cloud</groupId>  
 <artifactId>spring-cloud-starter-aws</artifactId>  
 <version>2.0.1.RELEASE</version>  
 </dependency>  
  
 <dependency>  
 <groupId>org.springframework.cloud</groupId>  
 <artifactId>spring-cloud-aws-context</artifactId>  
 <version>1.2.1.RELEASE</version>  
 </dependency>  
 <dependency>  
 <groupId>org.springframework.cloud</groupId>  
 <artifactId>spring-cloud-aws-autoconfigure</artifactId>  
 <version>1.2.1.RELEASE</version>  
 </dependency>  
  
 <dependency>  
 <groupId>org.testng</groupId>  
 <artifactId>testng</artifactId>  
 <version>RELEASE</version>  
 <scope>test</scope>  
 </dependency>  
  
   
  
  
 *<!-- spring security 확장 태그 라이브러리 -->* <dependency>  
 <groupId>org.springframework.security</groupId>  
 <artifactId>spring-security-taglibs</artifactId>  
 <version>${security.version}</version>  
 </dependency>  
  
 *<!-- java mail -->* <dependency>  
 <groupId>javax.mail</groupId>  
 <artifactId>mail</artifactId>  
 <version>1.4.7</version>  
 </dependency>  
  
 <dependency>  
 <groupId>org.springframework</groupId>  
 <artifactId>spring-context-support</artifactId>  
 <version>3.1.1.RELEASE</version>  
 </dependency>  
  
 *<!--Multipart File Up&Download -->* <dependency>  
 <groupId>org.apache.commons</groupId>  
 <artifactId>commons-lang3</artifactId>  
 <version>3.0</version>  
 </dependency>  
  
 <dependency>  
 <groupId>org.apache.commons</groupId>  
 <artifactId>commons-io</artifactId>  
 <version>1.3.2</version>  
 </dependency>  
  
 <dependency>  
 <groupId>com.amazonaws</groupId>  
 <artifactId>aws-java-sdk</artifactId>  
 <version>1.11.388</version>  
 </dependency>  
 <dependency>  
 <groupId>commons-fileupload</groupId>  
 <artifactId>commons-fileupload</artifactId>  
 <version>1.4</version>  
 </dependency>  
  
  
 <dependency>  
 <groupId>org.apache.httpcomponents</groupId>  
 <artifactId>httpclient</artifactId>  
 <version>4.5.2</version>  
 <scope>runtime</scope>  
 </dependency>  
  
 *<!-- aws-java-sdk -->* <dependency>  
 <groupId>com.amazonaws</groupId>  
 <artifactId>aws-java-sdk</artifactId>  
 <version>1.11.106</version>  
 </dependency>  
 *<!-- AOP -->* <dependency>  
 <groupId>org.aspectj</groupId>  
 <artifactId>aspectjweaver</artifactId>  
 <version>1.8.11</version>  
 </dependency>  
  
 *<!-- JWT -->* <dependency>  
 <groupId>com.auth0</groupId>  
 <artifactId>java-jwt</artifactId>  
 <version>3.3.0</version>  
 </dependency>  
  
 <dependency>  
 <groupId>org.springframework.boot</groupId>  
 <artifactId>spring-boot-starter-actuator</artifactId>  
 </dependency>  
  
 </dependencies>  
  
 <build>  
 <plugins>  
 <plugin>  
 <groupId>org.springframework.boot</groupId>  
 <artifactId>spring-boot-maven-plugin</artifactId>  
 </plugin>  
 </plugins>  
  
 </build>  
  
</project>

**실행 하기**

Window 10 환경 기준

* 8080 포트 사용
* Jdk8과 maven 설치
* JAVA\_HOME 환경변수 설정
* Path에 maven 환경 변수 설정
* 톰캣을 이용해 서버 배포
* Application.yml 파일 필요
* mvn spring-boot:run 으로 실행

사용된 도구들

* Spring-boot
* Maven
* Tomcat
* Mysql
* IntelliJ IDEA
* AWS EC2
* AWS RDS
* AWS S3