

# Starting the project

17 March 2019 20:45

**Update maven project**

**Alt+f5**

**Run configuration**

**Alt +r +n**

- add a profile as maven build
- Select the project from the workspace
- Add goal=[clean install -Denforcer.skip=true]
- Apply
- Run

**Now run the TrialBootApplication.java**

**Hit the url for the controller**

**For Database**

**Start the mysqlserver from task manager services**

**U can now hit the helloworldcontroller url**

# Spring with mybatis

24 February 2019

18:11

## Start

Go to [spring initializer .io](https://spring.io)

- Make a normal project
- With latest spring
- Add
  - Web,mybatis,mysql dependencies
  - Download project
  - Import as -existing maven project
  - Edit the pom by given [pom](#)

## Project Structure

- ▼ trialBoot
  - ▼ src/main/java
    - ▼ com.soham.trialBoot
      - > TrialBootApplication.java
    - ▼ com.soham.trialBoot.controller
      - > HelloWorldController.java
    - ▼ com.soham.trialBoot.dao
      - > UserDao.java
    - ▼ com.soham.trialBoot.mapper
      - > UserMapper.java
    - ▼ com.soham.trialBoot.model
      - > User.java
  - ▼ src/main/resources
    - ▼ com
      - ▼ soham
        - ▼ trialBoot
          - ▼ mapper
            - UserMapper.xml
      - application.properties
    - ▼ src/test/java
      - ▼ com.soham.trialBoot
        - > TrialBootApplicationTests.java
    - > JRE System Library [JavaSE-1.8]
    - > Maven Dependencies
    - > src
    - > target
      - mvnw
      - mvnw.cmd
    - pom.xml

# Application.properties

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**server.port=8083**

**# Database Connection properties**

**spring.datasource.url=jdbc:mysql://localhost/restaurantmanagementsystem**

**spring.datasource.username=root**

**spring.datasource.password=root**

**spring.datasource.driver-class-name=com.mysql.jdbc.Driver**

**# Mapper.xml location**

**mybatis.mapperLocations=classpath:/com/soham/\*\*/mapper/\*Mapper.xml**

**# Model's location that used by mapper.XML**

**mybatis.typeAliasesPackage=com.soham.trialBoot.model**

# trialbootApplication

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```
package com.soham.trialBoot;

import org.mybatis.spring.annotation.MapperScan;
import org.springframework.boot.SpringApplication;
import
org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication
@MapperScan("com.soham.trialBoot.mapper")
public class TrialBootApplication {

    public static void main(String[] args) {
        SpringApplication.run(TrialBootApplication.class, args);
    }

}
```

# Hello world controller

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```
package com.soham.trialBoot.controller;

import java.util.List;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestMethod;
import org.springframework.web.bind.annotation.RestController;

import com.soham.trialBoot.dao.UserDao;
import com.soham.trialBoot.model.User;

//@RequestMapping(value = "/records")
/*@ComponentScan
@EnableAutoConfiguration*/
@RestController
public class HelloWorldController {

    @Autowired
    UserDao userDao;

    @RequestMapping(value = "/", method = RequestMethod.GET,
        produces = "application/json")
    public List<User> hello() {

        return userDao.selectAllUsers();
    }
}
```

# userDao

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```
package com.soham.trialBoot.dao;

import java.util.List;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Component;

import com.soham.trialBoot.mapper.UserMapper;
import com.soham.trialBoot.model.User;

@Component
public class UserDao {

    @Autowired
    private UserMapper UserMapper;

    public List<User> selectAllUsers() {
        return UserMapper.selectAllUsers();
    }

    public User selectUser(int id) {
        return UserMapper.selectUser(id);
    }

    public int insertUser(User User) {
        return UserMapper.insertUser(User);
    }
}
```

# userMapper.java

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```
package com.soham.trialBoot.mapper;

import java.util.List;

import org.apache.ibatis.annotations.Param;

import com.soham.trialBoot.model.User;

public interface UserMapper {

    public List<User> selectAllUsers();

    public User selectUser(@Param("id") int id);

    public int insertUser(User User);

}
```



# User-model

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```
package com.soham.trialBoot.model;

public class User {

    private int id;
    private String userName;
    private String email;

    public int getId() {
        return id;
    }
    public void setId(int id) {
        this.id = id;
    }
    public String getUserName() {
        return userName;
    }
    public void setUserName(String userName) {
        this.userName = userName;
    }
    public String getEmail() {
        return email;
    }
    public void setEmail(String email) {
        this.email = email;
    }
}
```

# userMapper.xml

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```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE mapper PUBLIC "-//mybatis.org//DTD Mapper 3.0//EN"
"http://mybatis.org/dtd/mybatis-3-mapper.dtd">

<!-- Mapper.java namespace -->
<mapper namespace="com.soham.trialBoot.mapper.UserMapper">
<!-- User.java namespace -->
  <resultMap type="com.soham.trialBoot.model.User" id="User">
    <result property="id" column="id"/>
    <result property="userName" column="username"/>
    <result property="email" column="email"/>
  </resultMap>

  <select id="selectAllUsers" resultMap="User">
    SELECT * FROM userdemo;
  </select>
</mapper>
```

# Trialbootapplicationtests

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```
package com.soham.trialBoot;

import org.junit.Test;
import org.junit.runner.RunWith;
import org.springframework.boot.test.context.SpringBootTest;
import org.springframework.test.context.junit4.SpringRunner;

@RunWith(SpringRunner.class)
@SpringBootTest
public class TrialBootApplicationTests {

    @Test
    public void contextLoads() {
    }

}
```

# pom

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```
<?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>com.soham</groupId>
  <artifactId>trialBoot</artifactId>
  <version>0.0.1-SNAPSHOT</version>
  <name>trialBoot</name>
  <description>Demo project for Spring Boot</description>

  <properties>
    <java.version>1.8</java.version>
  </properties>

  <dependencies>
    <dependency>
      <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-starter-web</artifactId>
    </dependency>
    <dependency>
      <groupId>org.mybatis.spring.boot</groupId>
      <artifactId>mybatis-spring-boot-starter</artifactId>
      <version>2.0.0</version>
    </dependency>

    <dependency>
      <groupId>mysql</groupId>
      <artifactId>mysql-connector-java</artifactId>
```

```
        <scope>runtime</scope>
    </dependency>
    <dependency>
        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-starter-test</artifactId>
        <scope>test</scope>
    </dependency>
    <dependency>
        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-starter-integration</artifactId>
    </dependency>
    <dependency>
        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-starter-mail</artifactId>
    </dependency>
    <dependency>
        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-starter-web</artifactId>
    </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-devtools</artifactId>
        <scope>runtime</scope>
    </dependency>
    <!-- <dependency> <groupId>mysql</groupId> <artifactId>
mysql-connector-java</artifactId>
        <scope>runtime</scope> </dependency> -->
    <dependency>
        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-starter-test</artifactId>
        <scope>test</scope>
    </dependency>
</dependencies>
```

```
<build>
  <plugins>
    <plugin>
      <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-maven-plugin</artifactId>
    </plugin>
  </plugins>
</build>
```

```
</project>
```

# Book marks

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<https://dzone.com/articles/spring-boot-working-with-mybatis>

<http://www.springboottutorial.com/spring-boot-java-xml-context-configuration>

<https://www.javacodegeeks.com/2014/02/building-java-web-application-using-mybatis-with-spring.html>

<https://examples.javacodegeeks.com/enterprise-java/spring/mvc/spring-mvc-and-angular-6-example/>

<http://www.codingpedia.org/ama/spring-mybatis-integration-example/>

[https://www.youtube.com/watch?v=xpg29DL-](https://www.youtube.com/watch?v=xpg29DL-ozk&list=PLqq-6Pq4ITtbx8p2oCgcAQGQyqN8XeA1x&index=17)

[ozk&list=PLqq-6Pq4ITtbx8p2oCgcAQGQyqN8XeA1x&index=17](https://books.google.co.in/books?id=ka2VUBqHiWkC&pg=PA15)

<https://books.google.co.in/books?id=ka2VUBqHiWkC&pg=PA15>

[&dq=java+bloch+effective+builder+methods&ei=zi6aS6DUHY30Mr\\_fsdIH&cd=1](https://books.google.co.in/books?id=ka2VUBqHiWkC&pg=PA15&dq=java+bloch+effective+builder+methods&ei=zi6aS6DUHY30Mr_fsdIH&cd=1)

[&redir\\_esc=y&hl=en#v=onepage&q=design%20method%20signatures&f=false](https://books.google.co.in/books?id=ka2VUBqHiWkC&pg=PA15&redir_esc=y&hl=en#v=onepage&q=design%20method%20signatures&f=false)

[https://starconnectcbs.bankofindia.com/BankAwayRetail/\(S\(rudhcm55mehkxxiqzn5prb55\)\)/web/L001/retail/jsp/user/RetailSignOn.aspx?RequestId=35616350](https://starconnectcbs.bankofindia.com/BankAwayRetail/(S(rudhcm55mehkxxiqzn5prb55))/web/L001/retail/jsp/user/RetailSignOn.aspx?RequestId=35616350)

<https://www.javacodegeeks.com/2012/02/mybatis-3-spring-integration-tutorial.html>

<http://hmkcode.com/mybatis-spring-xml-annotation-mapper/>

<https://kovanchandra.com/java/springboot-mybatis-tutorial> -preferred in the last

<https://github.com/mybatis/spring-boot-starter/issues/106>

<https://www.baeldung.com/spring-boot-change-port>

<https://www.concretepage.com/spring-4/spring-4-rest-web-service-json-example-tomcat>