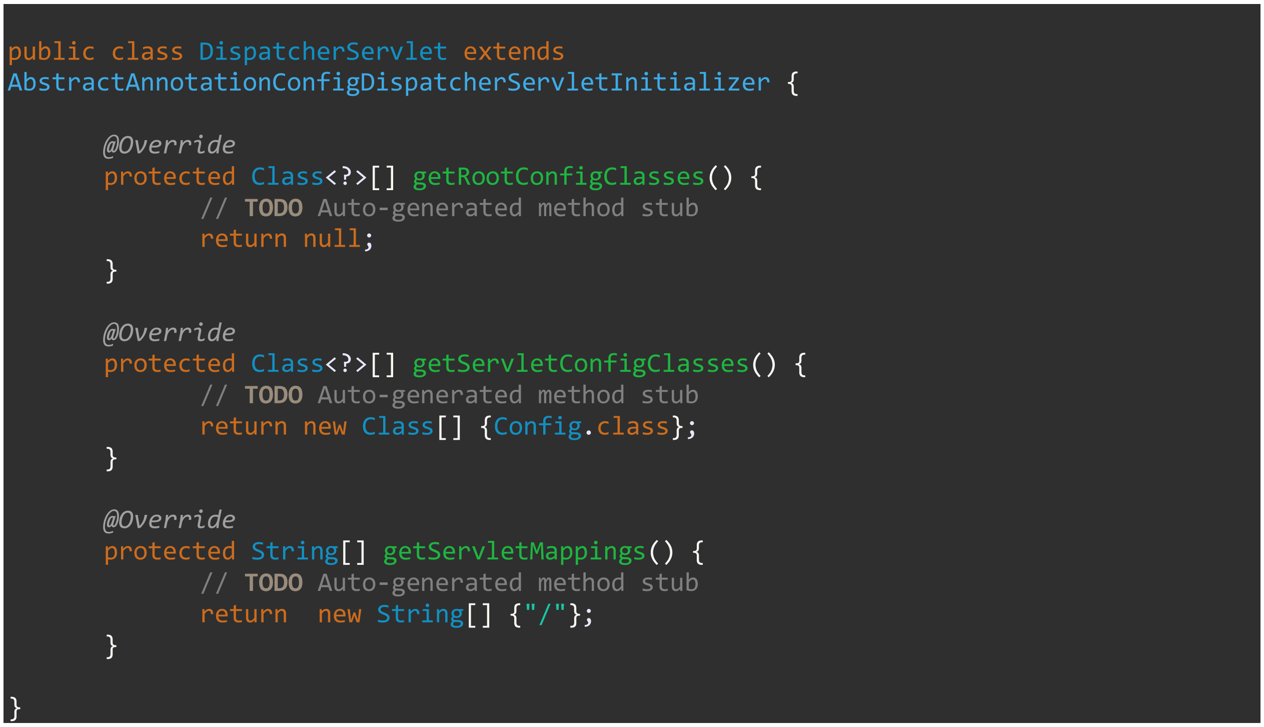
Searching for a Specific User and Updating the User Information

```
package com.example;


import javax.persistence.Entity;
import javax.persistence.Id;


@Entity
public class Student {
@Id
private int sid;
private String sname;
private String email;
public int getSid() {
	return sid;
}
public void setSid(int sid) {
	this.sid = sid;
}
public String getSname() {
	return sname;
}
public void setSname(String sname) {
	this.sname = sname;
}
public String getEmail() {
        return email;
    }
    public void setEmail(String email) {
        this.email = email;
    }

}
package com.example;

import java.util.List;

import org.springframework.orm.hibernate3.HibernateTemplate;

public class StudentDAO {
    private HibernateTemplate temp;
    public void setTemp(HibernateTemplate temp) {
        this.temp = temp;
    }

//Insert
    public int insert(Student student) {
        return (int) temp.save(student);

    }
    //update
    public boolean updateStudentDetails(Student updatedStudent) {
        int id = updatedStudent.getId();
        if (studentMap.containsKey(id)) {
            studentMap.put(id, updatedStudent);
            System.out.println("Student details updated successfully for ID: " + id);
            return true; // Update successful
        } else {
            System.out.println("Student with ID: " + id + " does not exist.");
            return false; // Update failed
        }
    }


//retrieve
	public List<Student> getall(){
		return (List<Student>) temp.find("from Student");
	}
}
package com.example;

import java.util.List;

import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
```

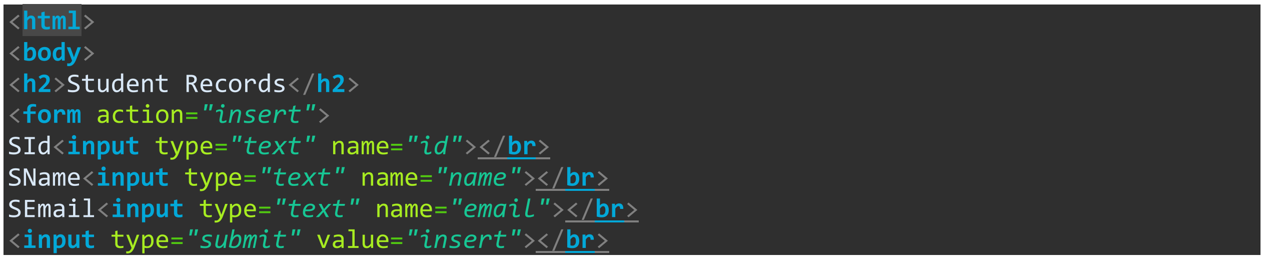
```
}


import org.springframework.context.ApplicationContext;

import org.springframework.context.support.ClassPathXmlApplicationContext;

import org.springframework.stereotype.Controller;

import org.springframework.web.bind.annotation.RequestMapping;

import org.springframework.web.servlet.ModelAndView;


@Controller

public class StudentController {


        @RequestMapping("/insert")

        public ModelAndView insert(HttpServletRequest request,HttpServletResponse response) {

                ModelAndView mv=new ModelAndView();

                ApplicationContext ac=new ClassPathXmlApplicationContext("spring.xml");

                Student s=ac.getBean(Student.class);

                StudentDAO dao=ac.getBean(StudentDAO.class);

                s.setSid(Integer.parseInt(request.getParameter("id")));

                s.setSname(request.getParameter("name"));

                s.setEmail(request.getParameter("email"));

                if(dao.insert(s)>0) {

                        mv.setViewName("success.jsp");

                }



                return mv;

        }
        @RequestMapping("/update")
public ModelAndView update(HttpServletRequest request, HttpServletResponse response) {
  ApplicationContext ac = new ClassPathXmlApplicationContext("spring.xml");
  StudentDAO dao = ac.getBean(StudentDAO.class);

  int id = Integer.parseInt(request.getParameter("id"));
  String name = request.getParameter("name");
  String email = request.getParameter("email");

  // Retrieve existing student
  Student existingStudent = dao.getStudentById(id);

  ModelAndView mv = new ModelAndView();

  if (existingStudent != null) {
    // Update details
    existingStudent.setSname(name);
    existingStudent.setEmail(email);

    // Perform the update
    boolean isUpdated = dao.updateStudentDetails(existingStudent);

    if (isUpdated) {
      mv.setViewName("success.jsp");
    } else {
            mv.setViewName("error.jsp");
        }
    } else {
        // Handle if student with the given ID doesn't exist
        mv.setViewName("error.jsp");
    }

    return mv;
}


	@RequestMapping("/getall")
	public ModelAndView getall(HttpServletRequest request,HttpServletResponse response) {
		ModelAndView mv=new ModelAndView();
		ApplicationContext ac=new ClassPathXmlApplicationContext("spring.xml");
		Student student=ac.getBean(Student.class);
		StudentDAO dao=ac.getBean(StudentDAO.class);
		List<Student> list=dao.getall();
		mv.setViewName("displayall.jsp");
		mv.addObject("list",list);

		return mv;
	}
}
```

```
package com.example;

import
org.springframework.web.servlet.support.AbstractAnnotationConfigDispatcherServletInit
ializer;
```



```
public class DispatcherServlet extends 
AbstractAnnotationConfigDispatcherServletInitializer {

	@Override
	protected Class<?>[] getRootConfigClasses() {
		// TODO Auto-generated method stub
		return null;
	}

	@Override
	protected Class<?>[] getServletConfigClasses() {
		// TODO Auto-generated method stub
		return new Class[] {Config.class};
	}

	@Override
	protected String[] getServletMappings() {
		// TODO Auto-generated method stub
		return  new String[] {"/"};
	}

}
```

```
package com.example;



import org.springframework.context.annotation.ComponentScan;

import org.springframework.context.annotation.Configuration;



@Configuration

@ComponentScan(basePackages = {"com.example"})

public class Config {



}
```

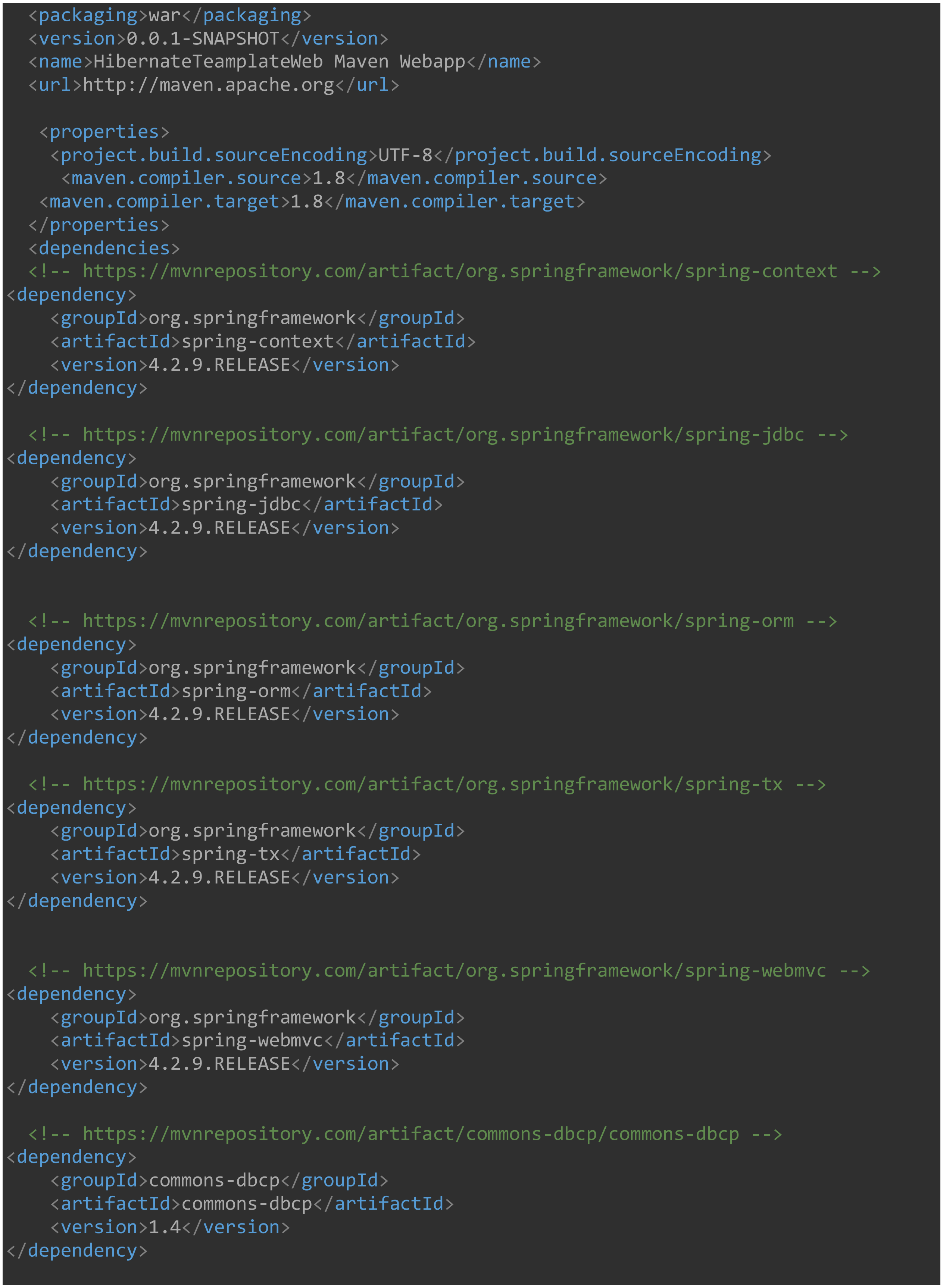


```
<html>
<body>
<h2>Student Records</h2>
<form action="insert">
SId<input type="text" name="id"></br>
SName<input type="text" name="name"></br>
SEmail<input type="text" name="email"></br>
<input type="submit" value="insert"></br>
```

```
</form>
</body>
</html>
```

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
    <%@ page import="com.example.*" %>
<%@ page import="java.util.*" %>

<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>

<%List<Student> list=(List<Student>)request.getAttribute("list"); %>
<table border="1">
<tr><th>Student Id</th><th>Student Name</th><th>Student Email</th></tr>
<%for(Student ss:list){ %>
<tr><td><%=ss.getSid() %></td><td><%=ss.getSname() %></td><td><%=ss.getEmail()
%></td></tr>
<%} %>
</table>

</body>
</html>
```

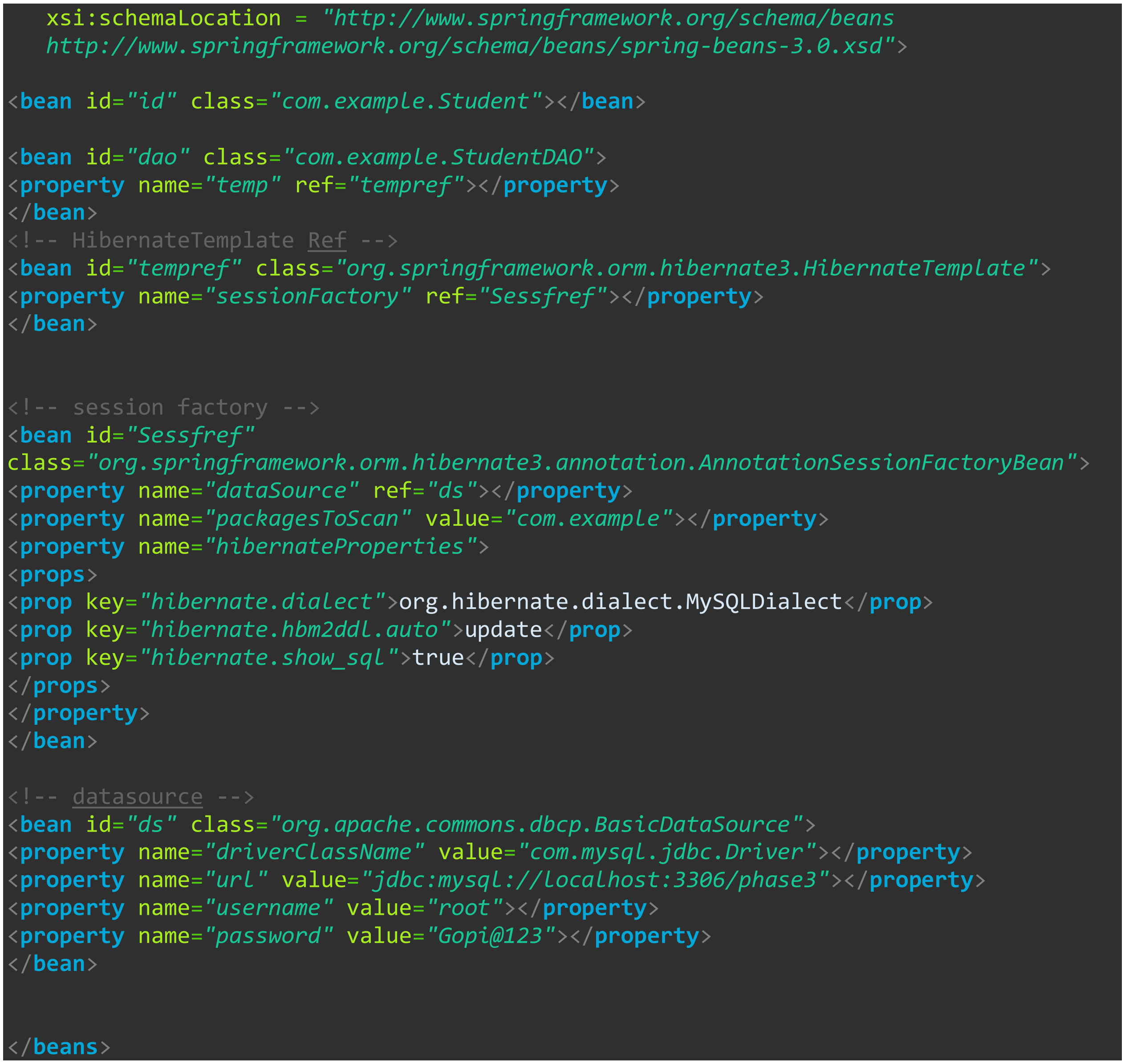
```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<h1>Student Details Added SuccessFully</h1>
<form action="getall">
<input type="submit" value="click here to see all records">
</form>

</body>
</html>
<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/maven-v4_0_0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <groupId>MphasisWebHibernate</groupId>
  <artifactId>HibernateTeamplateWeb</artifactId>
```



```
  <packaging>war</packaging>
  <version>0.0.1-SNAPSHOT</version>
  <name>HibernateTeamplateWeb Maven Webapp</name>
  <url>http://maven.apache.org</url>

   <properties>
    <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
     <maven.compiler.source>1.8</maven.compiler.source>
   <maven.compiler.target>1.8</maven.compiler.target>
  </properties>
  <dependencies>
  <!-- https://mvnrepository.com/artifact/org.springframework/spring-context -->
<dependency>
    <groupId>org.springframework</groupId>
    <artifactId>spring-context</artifactId>
    <version>4.2.9.RELEASE</version>
</dependency>

  <!-- https://mvnrepository.com/artifact/org.springframework/spring-jdbc -->
<dependency>
    <groupId>org.springframework</groupId>
    <artifactId>spring-jdbc</artifactId>
    <version>4.2.9.RELEASE</version>
</dependency>


  <!-- https://mvnrepository.com/artifact/org.springframework/spring-orm -->
<dependency>
    <groupId>org.springframework</groupId>
    <artifactId>spring-orm</artifactId>
    <version>4.2.9.RELEASE</version>
</dependency>

  <!-- https://mvnrepository.com/artifact/org.springframework/spring-tx -->
<dependency>
    <groupId>org.springframework</groupId>
    <artifactId>spring-tx</artifactId>
    <version>4.2.9.RELEASE</version>
</dependency>


  <!-- https://mvnrepository.com/artifact/org.springframework/spring-webmvc -->
<dependency>
    <groupId>org.springframework</groupId>
    <artifactId>spring-webmvc</artifactId>
    <version>4.2.9.RELEASE</version>
</dependency>

  <!-- https://mvnrepository.com/artifact/commons-dbcp/commons-dbcp -->
<dependency>
    <groupId>commons-dbcp</groupId>
    <artifactId>commons-dbcp</artifactId>
    <version>1.4</version>
</dependency>
```

```xml
  <!-- https://mvnrepository.com/artifact/org.hibernate/hibernate-core -->
<dependency>
    <groupId>org.hibernate</groupId>
    <artifactId>hibernate-core</artifactId>
    <version>3.6.9.Final</version>
</dependency>


  <!-- https://mvnrepository.com/artifact/org.hibernate/hibernate-entitymanager -->
<dependency>
    <groupId>org.hibernate</groupId>
    <artifactId>hibernate-entitymanager</artifactId>
    <version>3.6.9.Final</version>
</dependency>


  <!-- https://mvnrepository.com/artifact/mysql/mysql-connector-java -->
<dependency>
    <groupId>mysql</groupId>
    <artifactId>mysql-connector-java</artifactId>
    <version>8.0.29</version>
</dependency>


    <dependency>
      <groupId>junit</groupId>
      <artifactId>junit</artifactId>
      <version>3.8.1</version>
      <scope>test</scope>
    </dependency>

     <dependency>
    <groupId>javax.servlet</groupId>
    <artifactId>javax.servlet-api</artifactId>
    <version>3.1.0</version>
    <scope>provided</scope>
</dependency>
  </dependencies>
  <build>
    <finalName>HibernateTeamplateWeb</finalName>
    <plugins>
            <plugin>
                <groupId>org.apache.maven.plugins</groupId>
                <artifactId>maven-war-plugin</artifactId>
                <version>3.3.1</version>
            </plugin>
        </plugins>
  </build>
</project>
```

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!-- collection of objects -->
<beans xmlns = "http://www.springframework.org/schema/beans"
   xmlns:xsi = "http://www.w3.org/2001/XMLSchema-instance"
```



```
   xsi:schemaLocation = "http://www.springframework.org/schema/beans
   http://www.springframework.org/schema/beans/spring-beans-3.0.xsd">

<bean id="id" class="com.example.Student"></bean>

<bean id="dao" class="com.example.StudentDAO">
<property name="temp" ref="tempref"></property>
</bean>
<!-- HibernateTemplate Ref -->
<bean id="tempref" class="org.springframework.orm.hibernate3.HibernateTemplate">
<property name="sessionFactory" ref="Sessfref"></property>
</bean>


<!-- session factory -->
<bean id="Sessfref"
class="org.springframework.orm.hibernate3.annotation.AnnotationSessionFactoryBean">
<property name="dataSource" ref="ds"></property>
<property name="packagesToScan" value="com.example"></property>
<property name="hibernateProperties">
<props>
<prop key="hibernate.dialect">org.hibernate.dialect.MySQLDialect</prop>
<prop key="hibernate.hbm2ddl.auto">update</prop>
<prop key="hibernate.show_sql">true</prop>
</props>
</property>
</bean>

<!-- datasource -->
<bean id="ds" class="org.apache.commons.dbcp.BasicDataSource">
<property name="driverClassName" value="com.mysql.jdbc.Driver"></property>
<property name="url" value="jdbc:mysql://localhost:3306/phase3"></property>
<property name="username" value="root"></property>
<property name="password" value="Gopi@123"></property>
</bean>


</beans>
```