LAB EXPERIMENT-7

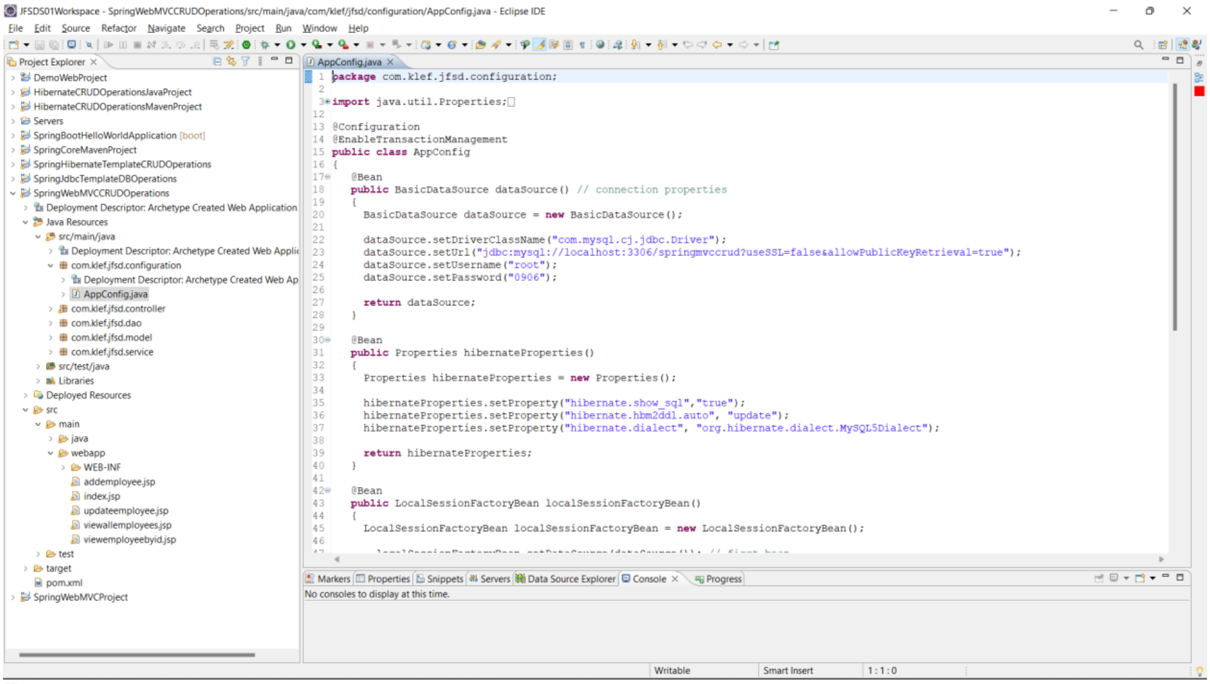
JAVA FULL STACK DEVELOPMENT

ID.NO:2000030185

Name: Suprith Ch

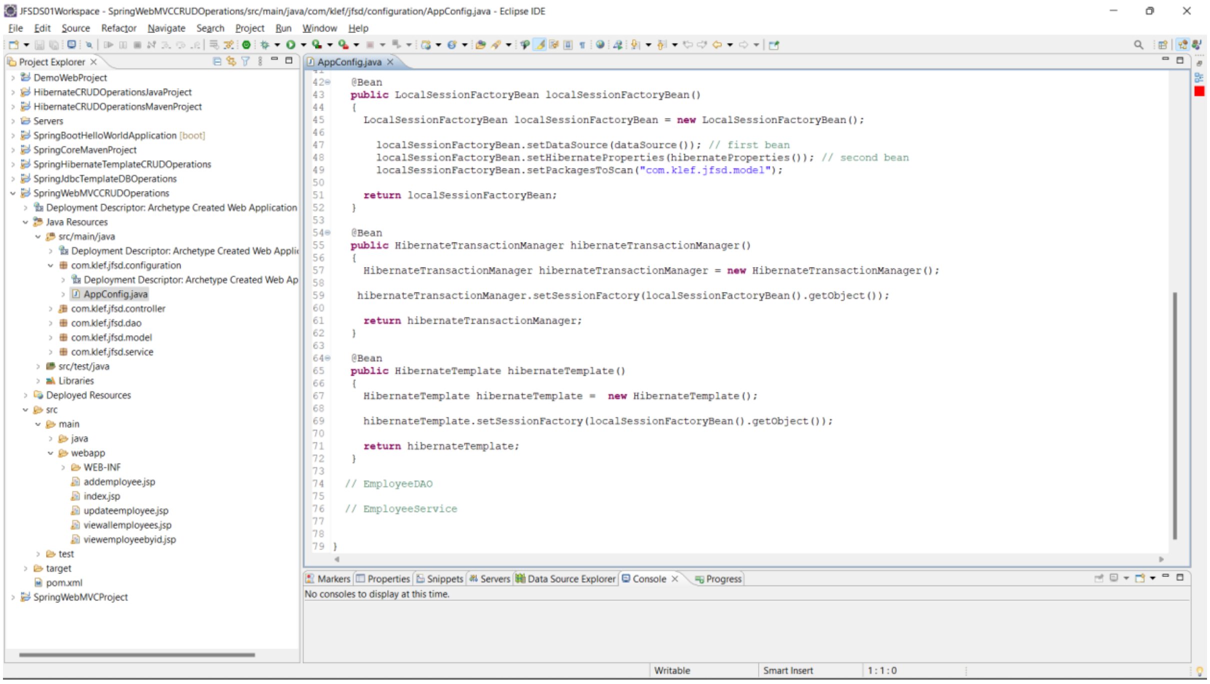
JAVA FILES:

com.klef.jfsd.configuration.AppConfig.Java


JFSDS01Workspace - SpringWebMVCCRUDOperations/src/main/java/com/klef/jfsd/configuration/AppConfig.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer
AppConfig.java
Markers Properties Snippets Servers Data Source Explorer Console Progress
Writable Smart Insert 1 : 1 : 0

```java
package com.klef.jfsd.configuration;

import java.util.Properties;

@Configuration
@EnableTransactionManagement
public class AppConfig
{
   @Bean
   public BasicDataSource dataSource() // connection properties
   {
     BasicDataSource dataSource = new BasicDataSource();

     dataSource.setDriverClassName("com.mysql.cj.jdbc.Driver");
     dataSource.setUrl("jdbc:mysql://localhost:3306/springmvccrud?useSSL=false&allowPublicKeyRetrieval=true");
     dataSource.setUsername("root");
     dataSource.setPassword("0906");

     return dataSource;
   }

   @Bean
   public Properties hibernateProperties()
   {
     Properties hibernateProperties = new Properties();

     hibernateProperties.setProperty("hibernate.show_sql","true");
     hibernateProperties.setProperty("hibernate.hbm2ddl.auto", "update");
     hibernateProperties.setProperty("hibernate.dialect", "org.hibernate.dialect.MySQL5Dialect");

     return hibernateProperties;
   }

   @Bean
   public LocalSessionFactoryBean localSessionFactoryBean()
   {
     LocalSessionFactoryBean localSessionFactoryBean = new LocalSessionFactoryBean();

```

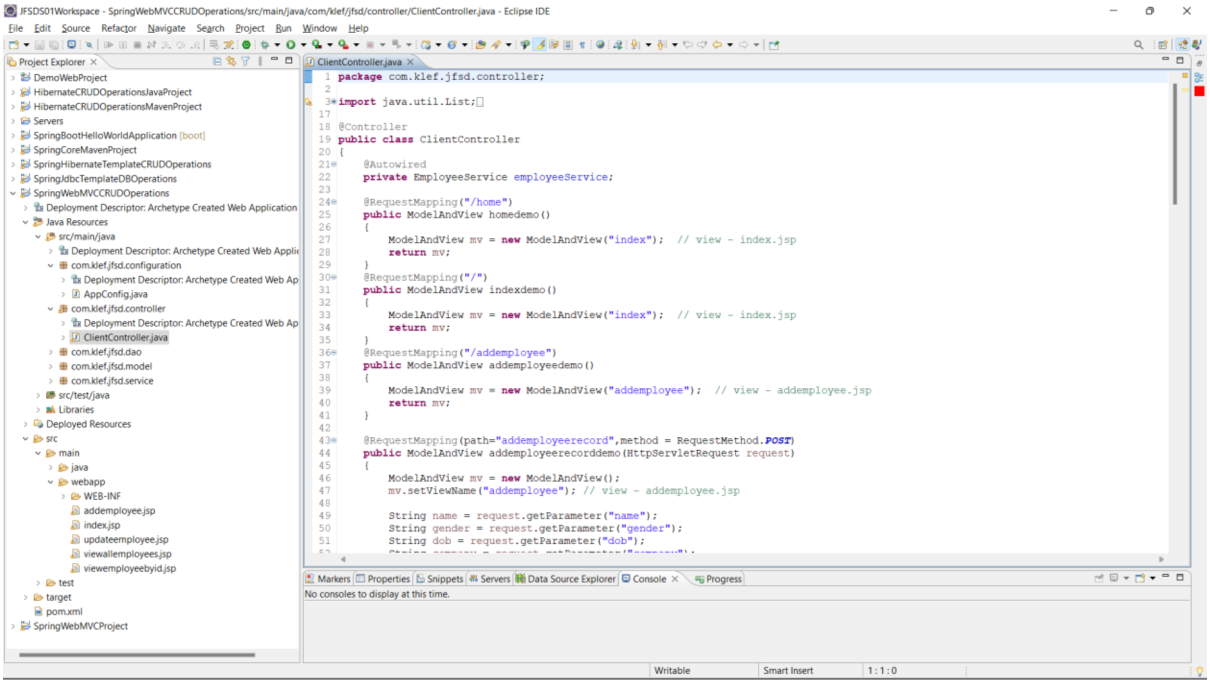
```
No consoles to display at this time.
```


JFSDS01Workspace - SpringWebMVCCRUDOperations/src/main/java/com/klef/jfsd/configuration/AppConfig.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer
AppConfig.java
Markers Properties Snippets Servers Data Source Explorer Console Progress
Writable Smart Insert 1 : 1 : 0

```java
   @Bean
   public LocalSessionFactoryBean localSessionFactoryBean()
   {
     LocalSessionFactoryBean localSessionFactoryBean = new LocalSessionFactoryBean();

       localSessionFactoryBean.setDataSource(dataSource()); // first bean
       localSessionFactoryBean.setHibernateProperties(hibernateProperties()); // second bean
       localSessionFactoryBean.setPackagesToScan("com.klef.jfsd.model");

     return localSessionFactoryBean;
   }

   @Bean
   public HibernateTransactionManager hibernateTransactionManager()
   {
     HibernateTransactionManager hibernateTransactionManager = new HibernateTransactionManager();

    hibernateTransactionManager.setSessionFactory(localSessionFactoryBean().getObject());

     return hibernateTransactionManager;
   }

   @Bean
   public HibernateTemplate hibernateTemplate()
   {
     HibernateTemplate hibernateTemplate =  new HibernateTemplate();

     hibernateTemplate.setSessionFactory(localSessionFactoryBean().getObject());

     return hibernateTemplate;
   }

  // EmployeeDAO

  // EmployeeService


}
```

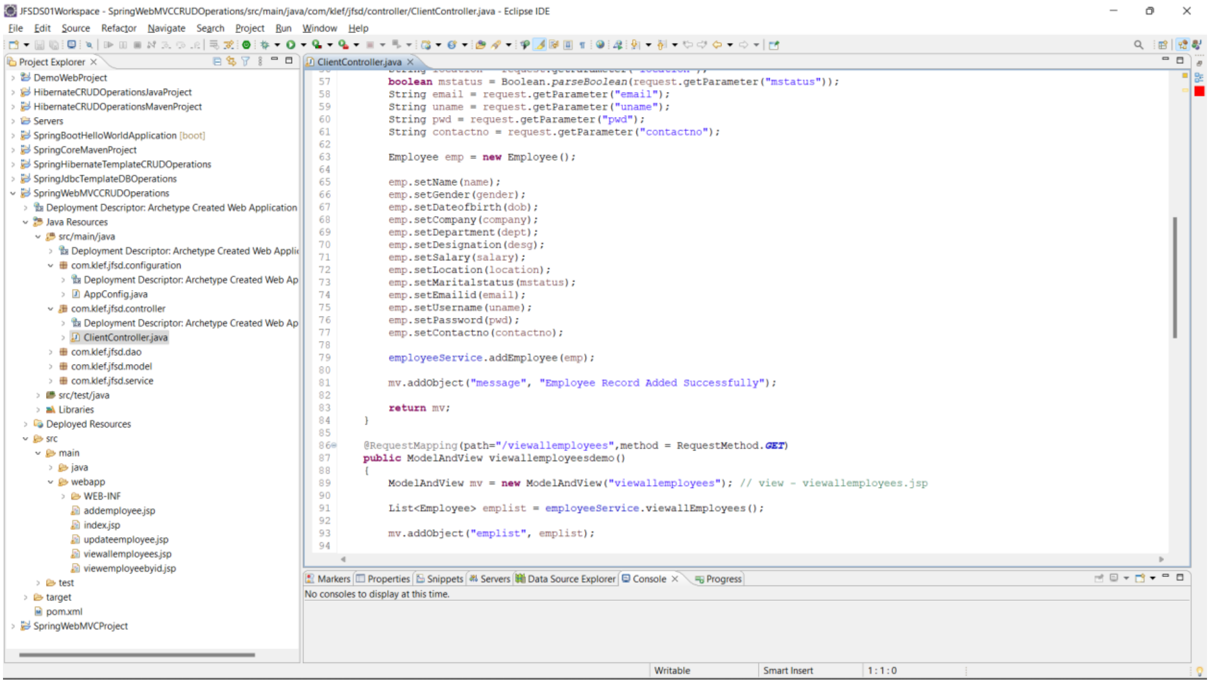
```
No consoles to display at this time.
```

Com.klef.jfsd.controller.ClientController.java


JFSDS01Workspace - SpringWebMVCCRUDOperations/src/main/java/com/klef/jfsd/controller/ClientController.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer
DemoWebProject
HibernateCRUDOperationsJavaProject
HibernateCRUDOperationsMavenProject
Servers
SpringBootHelloWorldApplication [boot]
SpringCoreMavenProject
SpringHibernateTemplateCRUDOperations
SpringJdbcTemplateDBOperations
SpringWebMVCCRUDOperations
Deployment Descriptor: Archetype Created Web Application
Java Resources
src/main/java
Deployment Descriptor: Archetype Created Web Applic
com.klef.jfsd.configuration
Deployment Descriptor: Archetype Created Web Ap
AppConfig.java
com.klef.jfsd.controller
Deployment Descriptor: Archetype Created Web Ap
ClientController.java
com.klef.jfsd.dao
com.klef.jfsd.model
com.klef.jfsd.service
src/test/java
Libraries
Deployed Resources
src
main
java
webapp
WEB-INF
addemployee.jsp
index.jsp
updateemployee.jsp
viewallemployees.jsp
viewemployeebyid.jsp
test
target
pom.xml
SpringWebMVCProject
ClientController.java
Markers Properties Snippets Servers Data Source Explorer Console Progress
Writable
Smart Insert
1 : 1 : 0

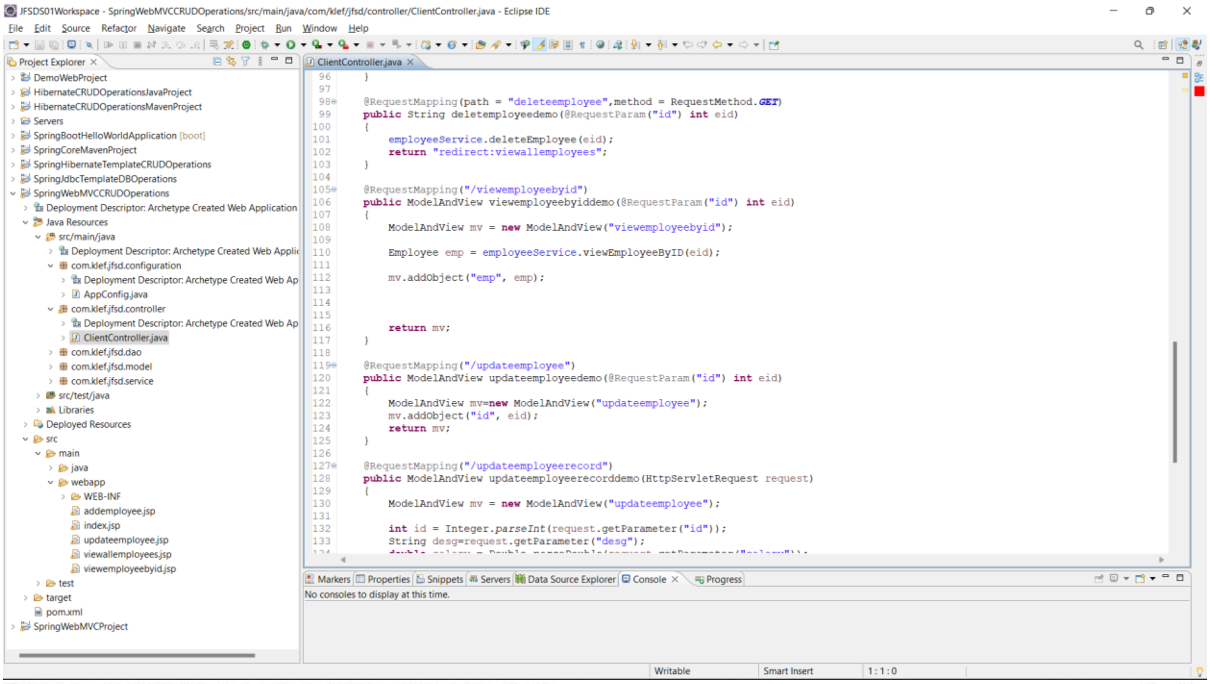
```java
package com.klef.jfsd.controller;

import java.util.List;□

@Controller
public class ClientController
{
    @Autowired
    private EmployeeService employeeService;

    @RequestMapping("/home")
    public ModelAndView homedemo()
    {
        ModelAndView mv = new ModelAndView("index");  // view - index.jsp
        return mv;
    }
    @RequestMapping("/")
    public ModelAndView indexdemo()
    {
        ModelAndView mv = new ModelAndView("index");  // view - index.jsp
        return mv;
    }
    @RequestMapping("/addemployee")
    public ModelAndView addemployeedemo()
    {
        ModelAndView mv = new ModelAndView("addemployee");  // view - addemployee.jsp
        return mv;
    }

    @RequestMapping(path="addemployeerecord",method = RequestMethod.POST)
    public ModelAndView addemployeerecorddemo(HttpServletRequest request)
    {
        ModelAndView mv = new ModelAndView();
        mv.setViewName("addemployee"); // view - addemployee.jsp

        String name = request.getParameter("name");
        String gender = request.getParameter("gender");
        String dob = request.getParameter("dob");
        String company = request.getParameter("company");
```

No consoles to display at this time.


JFSDS01Workspace - SpringWebMVCCRUDOperations/src/main/java/com/klef/jfsd/controller/ClientController.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer
DemoWebProject
HibernateCRUDOperationsJavaProject
HibernateCRUDOperationsMavenProject
Servers
SpringBootHelloWorldApplication [boot]
SpringCoreMavenProject
SpringHibernateTemplateCRUDOperations
SpringJdbcTemplateDBOperations
SpringWebMVCCRUDOperations
Deployment Descriptor: Archetype Created Web Application
Java Resources
src/main/java
Deployment Descriptor: Archetype Created Web Applic
com.klef.jfsd.configuration
Deployment Descriptor: Archetype Created Web Ap
AppConfig.java
com.klef.jfsd.controller
Deployment Descriptor: Archetype Created Web Ap
ClientController.java
com.klef.jfsd.dao
com.klef.jfsd.model
com.klef.jfsd.service
src/test/java
Libraries
Deployed Resources
src
main
java
webapp
WEB-INF
addemployee.jsp
index.jsp
updateemployee.jsp
viewallemployees.jsp
viewemployeebyid.jsp
test
target
pom.xml
SpringWebMVCProject
ClientController.java
Markers Properties Snippets Servers Data Source Explorer Console Progress
Writable
Smart Insert
1 : 1 : 0

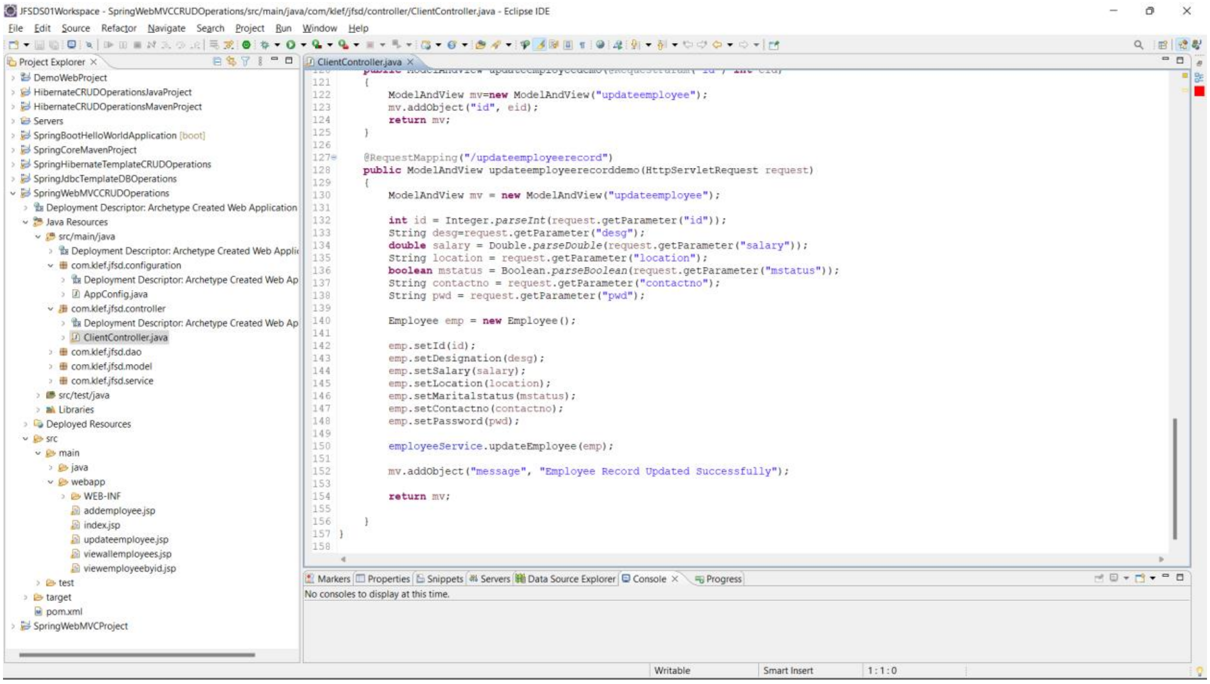
```java
        String location = request.getParameter("location");
        boolean mstatus = Boolean.parseBoolean(request.getParameter("mstatus"));
        String email = request.getParameter("email");
        String uname = request.getParameter("uname");
        String pwd = request.getParameter("pwd");
        String contactno = request.getParameter("contactno");

        Employee emp = new Employee();

        emp.setName(name);
        emp.setGender(gender);
        emp.setDateofbirth(dob);
        emp.setCompany(company);
        emp.setDepartment(dept);
        emp.setDesignation(desg);
        emp.setSalary(salary);
        emp.setLocation(location);
        emp.setMaritalstatus(mstatus);
        emp.setEmailid(email);
        emp.setUsername(uname);
        emp.setPassword(pwd);
        emp.setContactno(contactno);

        employeeService.addEmployee(emp);

        mv.addObject("message", "Employee Record Added Successfully");

        return mv;
    }

    @RequestMapping(path="/viewallemployees",method = RequestMethod.GET)
    public ModelAndView viewallemployeesdemo()
    {
        ModelAndView mv = new ModelAndView("viewallemployees"); // view - viewallemployees.jsp

        List<Employee> emplist = employeeService.viewallEmployees();

        mv.addObject("emplist", emplist);

```

No consoles to display at this time.


JFSDS01Workspace - SpringWebMVCCRUDOperations/src/main/java/com/klef/jfsd/controller/ClientController.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer
ClientController.java
Markers Properties Snippets Servers Data Source Explorer Console Progress
Writable Smart Insert 1 : 1 : 0

```java
    }

    @RequestMapping(path = "deleteemployee",method = RequestMethod.GET)
    public String deletemployeedemo(@RequestParam("id") int eid)
    {
        employeeService.deleteEmployee(eid);
        return "redirect:viewallemployees";
    }

    @RequestMapping("/viewemployeebyid")
    public ModelAndView viewemployeebyiddemo(@RequestParam("id") int eid)
    {
        ModelAndView mv = new ModelAndView("viewemployeebyid");

        Employee emp = employeeService.viewEmployeeByID(eid);

        mv.addObject("emp", emp);



        return mv;
    }

    @RequestMapping("/updateemployee")
    public ModelAndView updateemployeedemo(@RequestParam("id") int eid)
    {
        ModelAndView mv=new ModelAndView("updateemployee");
        mv.addObject("id", eid);
        return mv;
    }

    @RequestMapping("/updateemployeerecord")
    public ModelAndView updateemployeerecorddemo(HttpServletRequest request)
    {
        ModelAndView mv = new ModelAndView("updateemployee");

        int id = Integer.parseInt(request.getParameter("id"));
        String desg=request.getParameter("desg");
```

No consoles to display at this time.

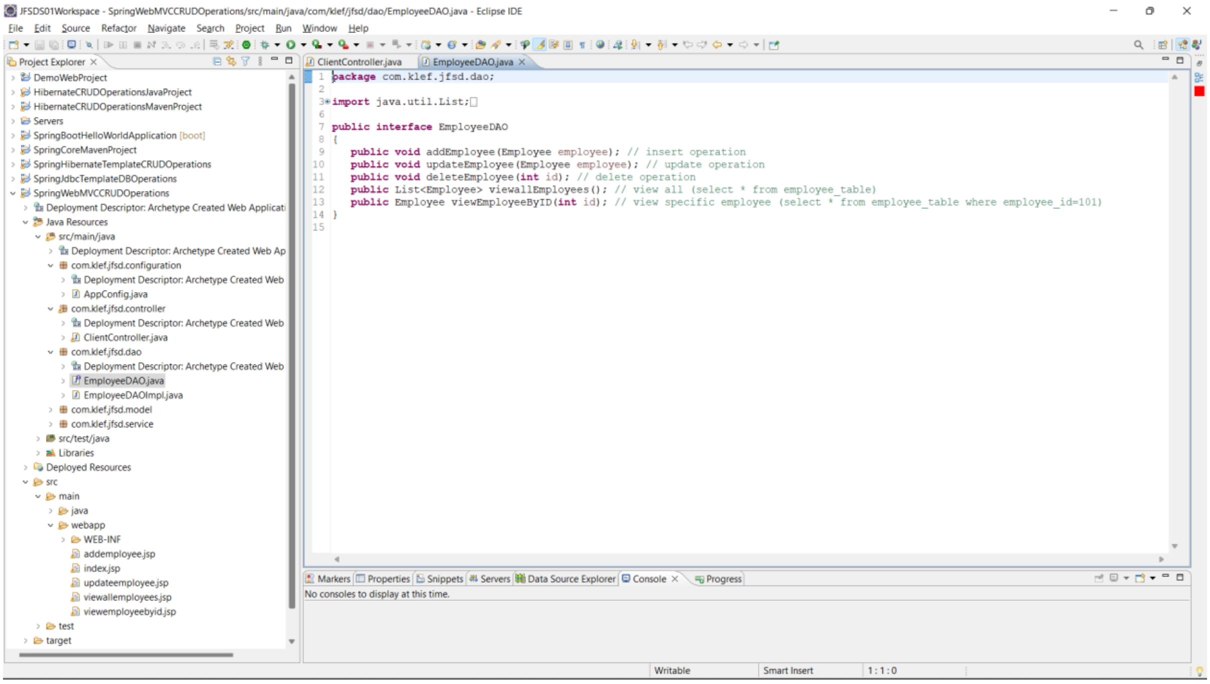

JFSDS01Workspace - SpringWebMVCCRUDOperations/src/main/java/com/klef/jfsd/controller/ClientController.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer
ClientController.java
Markers Properties Snippets Servers Data Source Explorer Console Progress
Writable Smart Insert 1 : 1 : 0

```java
    {
        ModelAndView mv=new ModelAndView("updateemployee");
        mv.addObject("id", eid);
        return mv;
    }

    @RequestMapping("/updateemployeerecord")
    public ModelAndView updateemployeerecorddemo(HttpServletRequest request)
    {
        ModelAndView mv = new ModelAndView("updateemployee");

        int id = Integer.parseInt(request.getParameter("id"));
        String desg=request.getParameter("desg");
        double salary = Double.parseDouble(request.getParameter("salary"));
        String location = request.getParameter("location");
        boolean mstatus = Boolean.parseBoolean(request.getParameter("mstatus"));
        String contactno = request.getParameter("contactno");
        String pwd = request.getParameter("pwd");

        Employee emp = new Employee();

        emp.setId(id);
        emp.setDesignation(desg);
        emp.setSalary(salary);
        emp.setLocation(location);
        emp.setMaritalstatus(mstatus);
        emp.setContactno(contactno);
        emp.setPassword(pwd);

        employeeService.updateEmployee(emp);

        mv.addObject("message", "Employee Record Updated Successfully");

        return mv;

    }
}
```

No consoles to display at this time.

com.klef.jfsd.dao

EmployeeDAO.java

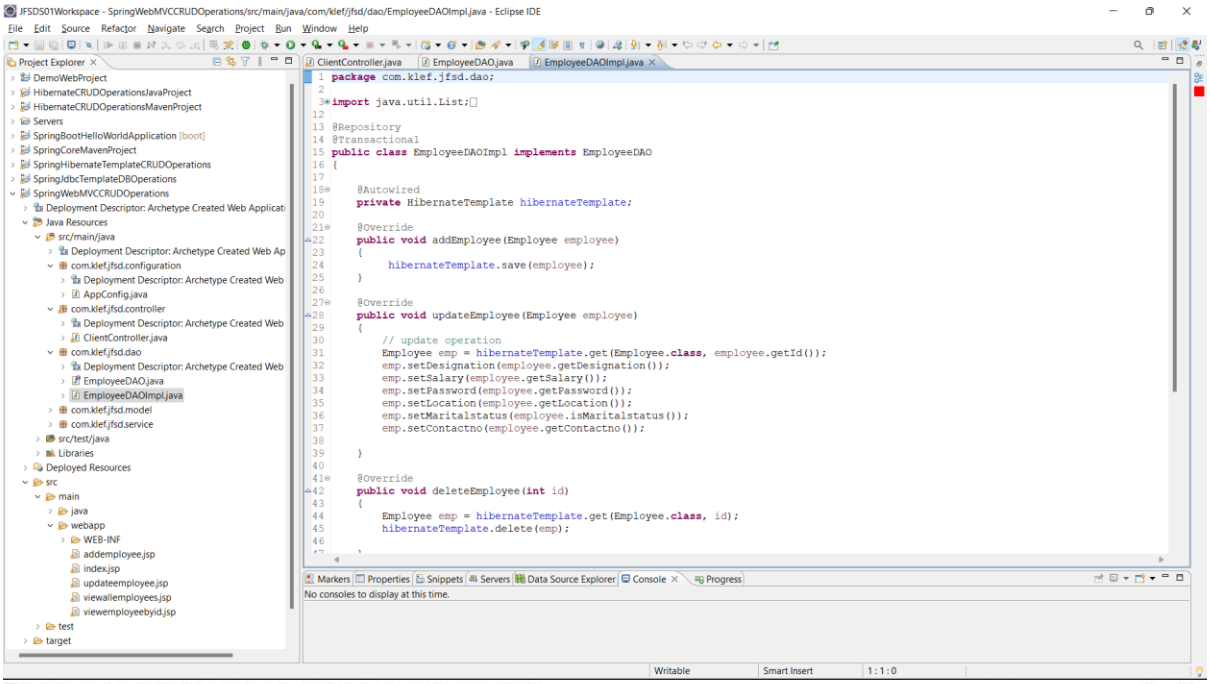


JFSDS01Workspace - SpringWebMVCCRUDOperations/src/main/java/com/klef/jfsd/dao/EmployeeDAO.java - Eclipse IDE
Project Explorer
ClientController.java
EmployeeDAO.java

```java
package com.klef.jfsd.dao;

import java.util.List;

public interface EmployeeDAO
{
   public void addEmployee(Employee employee); // insert operation
   public void updateEmployee(Employee employee); // update operation
   public void deleteEmployee(int id); // delete operation
   public List<Employee> viewallEmployees(); // view all (select * from employee_table)
   public Employee viewEmployeeByID(int id); // view specific employee (select * from employee_table where employee_id=101)
}
```

```
No consoles to display at this time.
```

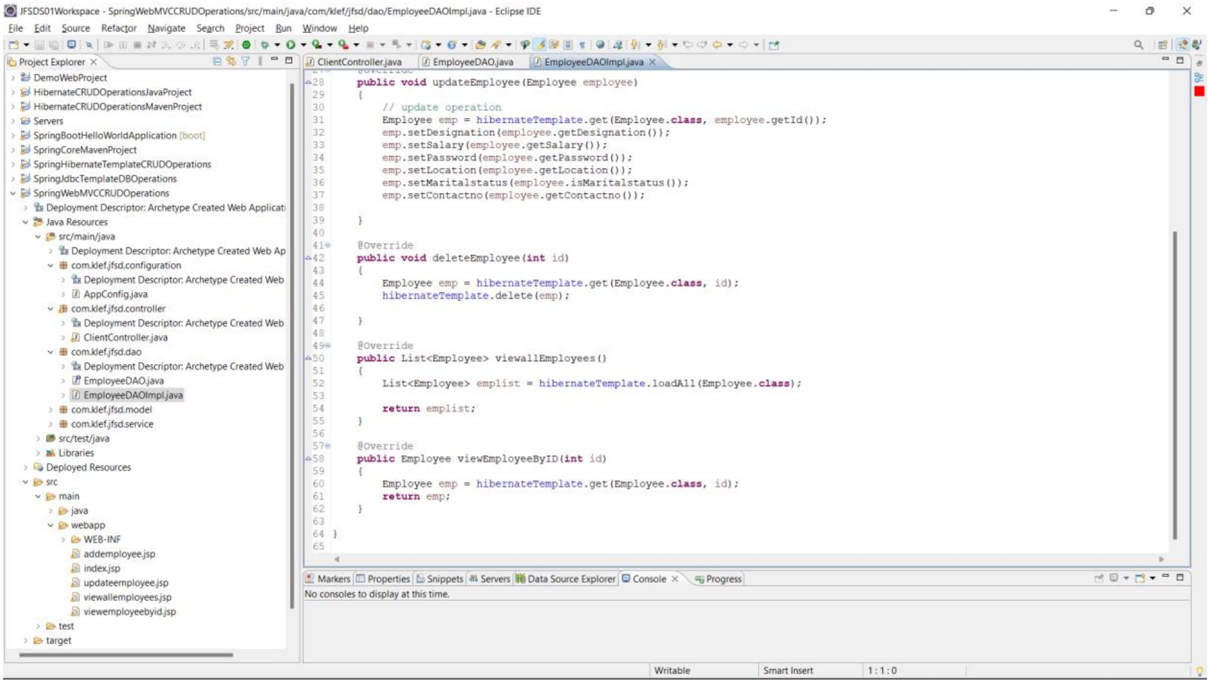
EmployeeDAO.java



JFSDS01Workspace - SpringWebMVCCRUDOperations/src/main/java/com/klef/jfsd/dao/EmployeeDAOImpl.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer
DemoWebProject
HibernateCRUDOperationsJavaProject
HibernateCRUDOperationsMavenProject
Servers
SpringBootHelloWorldApplication [boot]
SpringCoreMavenProject
SpringHibernateTemplateCRUDOperations
SpringJdbcTemplateDBOperations
SpringWebMVCCRUDOperations
Deployment Descriptor: Archetype Created Web Applicati
Java Resources
src/main/java
Deployment Descriptor: Archetype Created Web Ap
com.klef.jfsd.configuration
Deployment Descriptor: Archetype Created Web
AppConfig.java
com.klef.jfsd.controller
Deployment Descriptor: Archetype Created Web
ClientController.java
com.klef.jfsd.dao
Deployment Descriptor: Archetype Created Web
EmployeeDAO.java
EmployeeDAOImpl.java
com.klef.jfsd.model
com.klef.jfsd.service
src/test/java
Libraries
Deployed Resources
src
main
java
webapp
WEB-INF
addemployee.jsp
index.jsp
updateemployee.jsp
viewallemployees.jsp
viewemployeebyid.jsp
test
target
ClientController.java
EmployeeDAO.java
EmployeeDAOImpl.java
Markers
Properties
Snippets
Servers
Data Source Explorer
Console
Progress
Writable
Smart Insert
1 : 1 : 0

```java
package com.klef.jfsd.dao;

import java.util.List;

@Repository
@Transactional
public class EmployeeDAOImpl implements EmployeeDAO
{

    @Autowired
    private HibernateTemplate hibernateTemplate;

    @Override
    public void addEmployee(Employee employee)
    {
         hibernateTemplate.save(employee);
    }

    @Override
    public void updateEmployee(Employee employee)
    {
        // update operation
        Employee emp = hibernateTemplate.get(Employee.class, employee.getId());
        emp.setDesignation(employee.getDesignation());
        emp.setSalary(employee.getSalary());
        emp.setPassword(employee.getPassword());
        emp.setLocation(employee.getLocation());
        emp.setMaritalstatus(employee.isMaritalstatus());
        emp.setContactno(employee.getContactno());

    }

    @Override
    public void deleteEmployee(int id)
    {
        Employee emp = hibernateTemplate.get(Employee.class, id);
        hibernateTemplate.delete(emp);

```

No consoles to display at this time.



JFSDS01Workspace - SpringWebMVCCRUDOperations/src/main/java/com/klef/jfsd/dao/EmployeeDAOImpl.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer
DemoWebProject
HibernateCRUDOperationsJavaProject
HibernateCRUDOperationsMavenProject
Servers
SpringBootHelloWorldApplication [boot]
SpringCoreMavenProject
SpringHibernateTemplateCRUDOperations
SpringJdbcTemplateDBOperations
SpringWebMVCCRUDOperations
Deployment Descriptor: Archetype Created Web Applicati
Java Resources
src/main/java
Deployment Descriptor: Archetype Created Web Ap
com.klef.jfsd.configuration
Deployment Descriptor: Archetype Created Web
AppConfig.java
com.klef.jfsd.controller
Deployment Descriptor: Archetype Created Web
ClientController.java
com.klef.jfsd.dao
Deployment Descriptor: Archetype Created Web
EmployeeDAO.java
EmployeeDAOImpl.java
com.klef.jfsd.model
com.klef.jfsd.service
src/test/java
Libraries
Deployed Resources
src
main
java
webapp
WEB-INF
addemployee.jsp
index.jsp
updateemployee.jsp
viewallemployees.jsp
viewemployeebyid.jsp
test
target
ClientController.java
EmployeeDAO.java
EmployeeDAOImpl.java
Markers
Properties
Snippets
Servers
Data Source Explorer
Console
Progress
Writable
Smart Insert
1 : 1 : 0

```java
    public void updateEmployee(Employee employee)
    {
        // update operation
        Employee emp = hibernateTemplate.get(Employee.class, employee.getId());
        emp.setDesignation(employee.getDesignation());
        emp.setSalary(employee.getSalary());
        emp.setPassword(employee.getPassword());
        emp.setLocation(employee.getLocation());
        emp.setMaritalstatus(employee.isMaritalstatus());
        emp.setContactno(employee.getContactno());

    }

    @Override
    public void deleteEmployee(int id)
    {
        Employee emp = hibernateTemplate.get(Employee.class, id);
        hibernateTemplate.delete(emp);

    }

    @Override
    public List<Employee> viewallEmployees()
    {
        List<Employee> emplist = hibernateTemplate.loadAll(Employee.class);

        return emplist;
    }

    @Override
    public Employee viewEmployeeByID(int id)
    {
        Employee emp = hibernateTemplate.get(Employee.class, id);
        return emp;
    }

}

```

No consoles to display at this time.