Set up a Spring framework environment ?

1.Open Eclipse

2.Click Help ,Then Go to Eclipse Marketplace

3.Click Search option

4.Search Spring

5.Then choose Spring Tools 3 Add-On for Spring Tools 43.9.22.RELEASE

6.And install ,Allow all permissions.

Create a Java program to demonstrate default and custom event handling ?

startEventHandler :-

**package** com.ecommerce.beans;

**import** org.springframework.context.ApplicationListener;

**import** org.springframework.context.event.ContextStartedEvent;

**public** **class** StartEventHandler **implements** ApplicationListener<ContextStartedEvent>{

**public** void onApplicationEvent(ContextStartedEvent event) {

**System**.out.println("ContextStartedEvent Received");

}

}

stopEventHandler :-

**package** com.ecommerce.beans;

**import** org.springframework.context.ApplicationListener;

**import** org.springframework.context.event.ContextStoppedEvent;

**public** **class** StopEventHandler **implements** ApplicationListener<ContextStoppedEvent>{

**public** void onApplicationEvent(ContextStoppedEvent event) {

**System**.out.println("ContextStoppedEvent Received");

}

}

classCustomEvent :-

**package** com.ecommerce.beans;

**import** org.springframework.context.ApplicationEvent;

**public** **class** CustomEvent **extends** ApplicationEvent{

**public** CustomEvent(**Object** source) {

**super**(source);

}

**public** **String** toString(){

**return** "This is a custom event";

}

}

customEventHandler :-

**package** com.ecommerce.beans;

**import** org.springframework.context.ApplicationEventPublisher;

**import** org.springframework.context.ApplicationEventPublisherAware;

**public** **class** CustomEventPublisher **implements** ApplicationEventPublisherAware {

**private** ApplicationEventPublisher publisher;

**public** void setApplicationEventPublisher (ApplicationEventPublisher publisher) {

**this**.publisher = publisher;

}

**public** void publish() {

CustomEvent ce = **new** CustomEvent(**this**);

publisher.publishEvent(ce);

}

}

CustomEventListener

**package** com.ecommerce;

**import** org.springframework.context.ApplicationListener;

**public** **class** CustomEventListener **implements** ApplicationListener<CustomEvent> {

**public** void onApplicationEvent(CustomEvent event) {

**System**.out.println(event.toString());

}

}

Create a Java program to demonstrate JDBC and Spring Integration?

loginController.java [com.controller] :-

package com.controller;

import javax.servlet.http.HttpServletRequest;

import org.springframework.beans.factory.annotation.Autowired;

import org.springframework.stereotype.Controller;

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

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

import org.springframework.web.servlet.ModelAndView;

import com.bean.Login;

import com.service.loginService;

@Controller

public class loginController {

@Autowired

loginService loginService;

@RequestMapping(value="signIn",method = RequestMethod.POST)

public ModelAndView signIn(HttpServletRequest req,Login login) {

String email = req.getParameter("email");

String password = req.getParameter("password");

login.setEmailid(email);

login.setPassword(password);

String result = loginService.signIn(login);

ModelAndView mav = new ModelAndView();

if(result.equals("success")) {

mav.setViewName("successDb.jsp");

}

else {

mav.setViewName("failureDb.jsp");

}

return mav;

}

@RequestMapping(value="signUp",method = RequestMethod.POST)

public ModelAndView signUp(HttpServletRequest req,Login login) {

String email = req.getParameter("email");

String password = req.getParameter("password");

login.setEmailid(email);

login.setPassword(password);

String result = loginService.signUp(login);

ModelAndView mav = new ModelAndView();

mav.addObject("obj",result);

mav.setViewName("loginDb.jsp");

return mav;

}

@RequestMapping(value="checkUser",method = RequestMethod.POST)

public ModelAndView checkUserDetails(HttpServletRequest req) {

String email = req.getParameter("email");

String password = req.getParameter("password");

ModelAndView mav = new ModelAndView();

if(email.equals("ram@hz.com") && password.equals("123")) {

mav.setViewName("success.jsp");

}

else {

mav.setViewName("failure.jsp");

}

return mav;

}

}

Login.java [com.bean] :-

**package** com.bean;

**import** org.springframework.stereotype.Component;

@Component

**public** **class** Login {

**private** String emailid;

**private** String password;

**public** String getEmailid() {

**return** emailid;

}

**public** **void** setEmailid(String email) {

**this**.emailid = email;

}

**public** String getPassword() {

**return** password;

}

**public** **void** setPassword(String password) {

**this**.password = password;

}

@Override

**public** String toString() {

**return** "Login [email=" + emailid + ", password=" + password + "]";

}

}

loginDao.java [com.dao] :-

package com.dao;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.util.List;

import javax.sql.DataSource;

import org.springframework.beans.factory.annotation.Autowired;

import org.springframework.jdbc.core.JdbcTemplate;

import org.springframework.stereotype.Repository;

import com.bean.Login;

@Repository

public class loginDao {

@Autowired

DataSource ds; //autowired for DataSource present in spring configuration file

@Autowired

JdbcTemplate jdbcTemplate; //DI for jdbc template

/\*

public int signIn(Login login) {

try {

Class.forName("com.mysql.cj.jdbc.Driver");

Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/javatraining","root","admin");

PreparedStatement pstmt = con.prepareStatement("select \* from login where emailid=? and password=?");

pstmt.setString(1, login.getEmailid());

pstmt.setString(2, login.getPassword());

ResultSet rs = pstmt.executeQuery();

if(rs.next()) {

return 1;

}

}

catch(Exception e) {

return 0;

}

return 0;

}

\*/

/\*

public int signIn(Login login) {

try {

Connection con = ds.getConnection();

PreparedStatement pstmt = con.prepareStatement("select \* from login where emailid=? and password=?");

pstmt.setString(1, login.getEmailid());

pstmt.setString(2, login.getPassword());

ResultSet rs = pstmt.executeQuery();

if(rs.next()) {

return 1;

}

}

catch(Exception e) {

return 0;

}

return 0;

}

\*/

public int signIn(Login login) {

try {

//jdbcTemplate.query

List l1 = jdbcTemplate.queryForList("select \* from login where emailid=? and password=?", login.getEmailid(),login.getPassword());

return l1.size();

}

catch(Exception e) {

System.out.println(e);

return 0;

}

}

/\*

public int signUp(Login login) {

try {

Class.forName("com.mysql.cj.jdbc.Driver");

Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/javatraining","root","admin");

PreparedStatement pstmt = con.prepareStatement("insert into login values(?,?)");

pstmt.setString(1, login.getEmailid());

pstmt.setString(2, login.getPassword());

ResultSet rs = pstmt.executeQuery();

if(rs.next()) {

return 1;

}

}

catch(Exception e) {

return 0;

}

return 0;

}

\*/

/\*

public int signUp(Login login) {

try {

Connection con = ds.getConnection();

PreparedStatement pstmt = con.prepareStatement("insert into login values(?,?)");

pstmt.setString(1, login.getEmailid());

pstmt.setString(2, login.getPassword());

int res = pstmt.executeUpdate();

if(res>0) {

return 1;

}

}

catch(Exception e) {

return 0;

}

return 0;

}

\*/

public int signUp(Login login) {

try {

//Use this method for delete,update ,insert

return jdbcTemplate.update("insert into login values(?,?)",login.getEmailid(),login.getPassword());

}

catch(Exception e) {

System.out.println(e);

return 0;

}

}

}

loginService.java [com.service] :-

package com.service;

import org.springframework.beans.factory.annotation.Autowired;

import org.springframework.stereotype.Service;

import com.bean.Login;

import com.dao.loginDao;

@Service

public class loginService {

@Autowired

loginDao loginDao;

public String signIn(Login login) {

if(loginDao.signIn(login)>0) {

return "success";

}

else {

return "failure";

}

}

public String signUp(Login login) {

if(loginDao.signUp(login)>0) {

return "Account created Successfully";

}

else {

return "Account didn't created";

}

}

}

HTML page :-

**index.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>

<a href=*"welcome"*>Click Me</a> |

<a href=*"hi"*>Click Me</a> |

<a href=*"login.jsp"*>Login Page</a> |

<a href=*"loginDb.jsp"*>Login Page with datbase check</a>

</body>

</html>

**loginDb.java :-**

<%@ 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>

${requestScope.obj}

<h2>Check Login from Database</h2>

<form action=*"signIn"* method=*"post"*>

<label>Email Id</label>

<input type=*"email"* name=*"email"*><br>

<label>Password</label>

<input type=*"password"* name=*"password"*><br>

<input type=*"submit"* value=*"submit"*>

<input type=*"reset"* value=*"reset"*>

</form>

<br>

<a href=*"signUp.jsp"*>Sign Up</a>

</body>

</html>

**signUp.java :-**

<%@ 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>

<h2>Account create</h2>

<form action=*"signUp"* method=*"post"*>

<label>Email Id</label>

<input type=*"email"* name=*"email"*><br>

<label>Password</label>

<input type=*"password"* name=*"password"*><br>

<input type=*"submit"* value=*"submit"*>

<input type=*"reset"* value=*"reset"*>

</form>

<br>

<a href=*"loginDb.jsp"*>Login Page</a>

</body>

</html>

**successDb.java :-**

<%@ 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>

<h2>Successfully login from database</h2>

</body>

</html>

**failureDb.java :-**

<%@ 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>

<h2>Failure try again, check with databse</h2>

<%@include file=*"loginDb.jsp"*%>

</body>

</html>