EX2

MainApplication

@SpringBootApplication

public class Demo2Application {

    public static void main(String[] args) {

        SpringApplication.run(Demo2Application.class, args);

    }

}

Repo.java

public interface Repo extends CrudRepository<User,Integer>{

}

User.java

@Data

@NoArgsConstructor

@AllArgsConstructor

@Entity

@Table(name = "Data")

public class User {

    @Id

    @GeneratedValue(strategy = GenerationType.IDENTITY)

    private int id;

    private String name;

    private String email;

    private String Password;

    private String query;

}

Control.java

@Controller

public class MainController {

    @Autowired

    Repo r;

    @GetMapping("")

    public String home() {

        return "index";

    }

    @GetMapping("/add\_user")

    public String new1(Model model) {

        List<User> users = (List<User>) r.findAll();

        model.addAttribute("users", users);

        return "form";

    }

    @GetMapping("/users\_home")

    public String newUser(Model model) {

        model.addAttribute("user", new User());

        return "form";

    }

    @PostMapping("/user\_save")

    public String addUser(User user, Model model) {

        r.save(user);

        return "form";

    }

    @GetMapping("/update/user{id}")

    public String updateUser(@PathVariable int id, Model model) {

        Optional<User> user = r.findById(id);

        model.addAttribute("user", user.get());

        return "redirect:/users\_home";

    }

    @GetMapping("/delete/user{id}")

    public String deleteUser(@PathVariable int id) {

        r.deleteById(id);

        return "redirect:/users\_home";

    }

}

Forms.html

<!DOCTYPE html>

<html lang="en" xmlns:th="http:thymeleaf.org">

    <head>

      <meta charset="UTF-8" />

      <meta http-equiv="X-UA-Compatible" content="IE=edge" />

      <meta name="viewport" content="width=device-width, initial-scale=1.0" />

        <title>Registration</title>

        <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-9ndCyUaIbzAi2FUVXJi0CjmCapSmO7SnpJef0486qhLnuZ2cdeRhO02iuK6FUUVM" crossorigin="anonymous">

        <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/js/bootstrap.bundle.min.js" integrity="sha384-geWF76RCwLtnZ8qwWowPQNguL3RmwHVBC9FhGdlKrxdiJJigb/j/68SIy3Te4Bkz" crossorigin="anonymous"></script>

        <style>

            \*

            {

                margin: 0;

                padding: 0;

            }

            body

            {

                background-image: url(wp3421859.jpg);

                background-repeat: no-repeat;

                background-attachment: fixed;

                background-size: 100% 100%;

            }

            .main

            {

                margin-top: 100px;

                margin-left: 140px;

                max-width: 600px;

                width: 600px;

                background-color:rgb(233, 160, 160);

                padding: 0px 30px;

                border-radius: 5px;

            }

            .main .register

            {

                font-size: 8px;

                font-weight: 600px;

            }

            .register h1

            {

                text-align: center;

                color:darkgreen;

                font-size: 40px;

            }

            .register

            {

                display: block;

            }

            .input input

            {

                width:500px;

                font-size: 1.2em;

            }

            button

            {

                background-color: brown;

                font-size: 20px;

                color: black;

                margin: 10px;

                padding: 10px 25px;

                border-radius: 8px;

                border: 1px solid #006D77;

            }

        </style>

    </head>

    <body>

        <div class="main">

            <div class="register">

                <h1>SEND QUERY</h1><br> <br> <br>

                <form th:action="@{/user\_save}" th:method="post" th:object="${user}">

                    <div class="form-group row">

                        <font size="3">ID</font> &nbsp; &nbsp;

                        <div class="col-sm-7"><input name="id" class="form-control" type="text" th:field="\*{id}" />

                    </div>

                    <div class="form-group row">

                    <font size="3">Name</font> &nbsp; &nbsp;

                    <div class="col-sm-7"><input name="name" class="form-control" type="text" th:field="\*{name}" ></div>

                    </div> <br>

                    <div class="form-group row">

                        <font size="3">Email</font> &nbsp; &nbsp;

                        <div class="col-sm-7"><input class="form-control" name="email" type="text" th:field="\*{email}" ><br></div>

                    </div>

                    <div class="form-group row">

                        <font size="3">Password</font>

                        <div class="col-sm-7"><input class="form-control" name="pswd" type="password" th:field="\*{Password}" ></div>

                    </div> <br>

                    <div class="form-group row">

                        <font size="3">Product Query</font>

                        <div class="col-sm-7"><input class="form-control" type="text" name="date" th:field="\*{query}"></div>

                    </div><br>

                        <input type="submit" class="btn btn-success" value="Add User">

                        <a class="btn btn-success" th:href="@{'delete/user'+ ${user.id}}">Delete User</a>

                        <a class="btn btn-success" th:href="@{'update/user'+ ${user.id}}">Update User</a>

                        <div>

                </form>

            </div>

        </div>

    </body>

</html>

User.html

<!DOCTYPE html>

<html lang="en" xmlns:th="http:thymeleaf.org">

  <head>

       <title>Home</title>

       <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-9ndCyUaIbzAi2FUVXJi0CjmCapSmO7SnpJef0486qhLnuZ2cdeRhO02iuK6FUUVM" crossorigin="anonymous">

        <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/js/bootstrap.bundle.min.js" integrity="sha384-geWF76RCwLtnZ8qwWowPQNguL3RmwHVBC9FhGdlKrxdiJJigb/j/68SIy3Te4Bkz" crossorigin="anonymous"></script>

       <style>

        \*

        {

            margin: 0;

            padding: 0;

        }

        body

        {

            background-image: url(l1.jpg);

            background-repeat: no-repeat;

            background-attachment: fixed;

            background-size: 100% 100%;

        }

        .cen

            {

                margin-top: 200px;

            }

      </style>

  </head>

 <body>

    <div>

      <center class="cen"><h1><a style="text-decoration: none;" th:href="@{/add\_user}">Add new User</a></h1></center>

    </div>

    <div>

      <section th:each="user:${users}">

        <a class="btn btn-success" th:href="@{'delete/user'+ ${user.id}}">Delete User</a>

        <a class="btn btn-success" th:href="@{'update/user'+ ${user.id}}">Update User</a>

      </section>

    </div>

  </body>

</html>

**EX3**

Contrl.java

@RestController

public class Controller {

@Autowired

  Userrepo userRepo;

  @Autowired

  Userserv userServ;

  @GetMapping("/all")

  public List<User> getByCategory() {

    return (ArrayList<User>) userRepo.findAll();

  }

  @PostMapping("/insert")

  public String insertUser(@RequestBody User user) {

    //userServ.addUser(user);

    userRepo.save(user);

    return "Data successfully inserted!";

  }

  @GetMapping("display/user{id}")

  public Optional<User> getById(@PathVariable long id) {

    Optional<User> user = userServ.getUserById(id);

    return user;

  }

  @PutMapping("/update/user{id}")

  public String updateUser(@PathVariable long id, @RequestBody User user) {

    user.setId(id);

    userServ.updateUser(id, user);

    return "Updated Sucessfully.";

  }

@DeleteMapping("/delete/user{id}")

  public String deleteUser(@PathVariable long id) {

    userServ.deleteUser(id);

    return "Deleted Sucessfully.";

  }}

Repo.java

@Repository

public interface Userrepo extends CrudRepository<User, Long> { }

User.java

@Data

@NoArgsConstructor

@AllArgsConstructor

@Entity

@Table(name = "Blog")

public class User {

     @Id

    @GeneratedValue(strategy=GenerationType.IDENTITY)

    private long id;

    private String name;

    private String emailid;

    private String city;

    private String product;

    private int quantity;

}

Userserv.java

@Service

public class Userserv implements UserService {

  @Autowired

  Userrepo userRepo;

  @Override

  public void deleteUser(long id) {

    userRepo.deleteById(id);

  }

  @Override

  public void addUser(User user) {

    userRepo.save(user);

  }

  @Override

  public void updateUser(long id, User user) {

    userRepo.save(user);

  }

  @Override

  public Optional<User> getUserById(long id) {

    return userRepo.findById(id);

  }

  @Override

  public List<User> getAll() {

    return (List<User>) userRepo.findAll();

  }

}

Userservice.java

public interface UserService {

    List<User> getAll();

    void deleteUser(long id);

    void addUser(User user);

    void updateUser(long id, User user);

    Optional<User> getUserById(long id);

}

Appli propertices

server.port=8080

spring.datasource.url=jdbc:mysql://localhost:3306/Orderdetails?createDatabaseIfNotExist=true

spring.datasource.username=root

spring.datasource.password=

spring.jpa.hibernate.ddl-auto=update

spring.jpa.properties.hibernate.dialect = org.hibernate.dialect.MySQL8Dialect

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

**EX4**

Control.java

@RestController

@RequestMapping("/api/orders1")

public class Controller {

    private static List<Order> orders = new ArrayList<Order>();

    @GetMapping

    public List<Order> getOrders() {

        return orders;

    }

    @PostMapping

    public Order addOrders(@RequestBody Order order) {

        orders.add(order);

        return order;

    }

}

Order.java

public class Order {

    private String customername;

    private int phonenumber;

    private String emailid;

    private String productname;

    private String city;

    private int price;

public String getCustomername() {

        return customername;

    }

    public void setCustomername(String customername) {

        this.customername = customername;

    }

    public int getPhonenumber() {

        return phonenumber;

    }

    public void setPhonenumber(int phonenumber) {

        this.phonenumber = phonenumber;

    }

    public String getEmailid() {

        return emailid;

    }

    public void setEmailid(String emailid) {

        this.emailid = emailid;

    }

    public String getProductname() {

        return productname;

    }

**EX5**

**Docker**

# Use an official OpenJDK runtime as a parent image

FROM openjdk:17-jdk-alpine

# Set the working directory in the container

WORKDIR /app

# Copy the packaged JAR file into the container at the specified working directory

COPY target/dairyproduct-0.0.1-SNAPSHOT.jar dairyproduct-0.0.1-SNAPSHOT.jar

# Expose a port (e.g., 8080) for your Spring Boot application

EXPOSE 8080

# Define the command to run your Spring Boot application

CMD ["java", "-jar", "dairyproduct-0.0.1-SNAPSHOT.jar"]

**EX1**

**Control**

@Controller

public class controlller {

    @RequestMapping("/rightcontact")

    public String registerform(@ModelAttribute("frm") Forms frm) {

        return "rightcontact";

    }

    @RequestMapping("/success")

    public String registersucc(@ModelAttribute("frm") Forms frm) {

        return "success";

    }

}

**Form.java**

public class Forms {

    @Getter

    @Setter

    private String name, email, password, g1, veg, contact, location;

}

**Index.html**

<html xmlns:th="http:www.thymeLeaf.org">

 <head style="background-image: url(panner.jpg);">

   <meta name="viewport" content="width=50%, initial-scale=1">

     <title>Contact Form</title>

     <link rel="stylesheet" href="ss.css">

     <style>

         body{

            background-image: url(i1.avif);

            background-repeat: no-repeat;

            background-attachment: fixed;

            background-size: 100% 100%;

         }

     </style>

  </head>

<body><center>

    <br><h1> SEND ENQUIRY</h1><br>

          <form th:action="@{success}"method="post"th:object="${frm}">

        Name: <input type="text" th:field="\*{name}"/><br>

        Email: <input type="text" th:field="\*{email}"/><br>

        Password: <input type="password" th:field="\*{password}"/><br><br>

        Gender: <input type="radio" th:field="\*{g1}" value="Male">Male &nbsp;

        <input type="radio" th:field="\*{g1}" value="Female">Female &nbsp; <br><br>

        <label>Qurie Product:</label>

        <input type="checkbox" th:field="\*{veg}" value="curd">Curd &nbsp;

        <input type="checkbox" th:field="\*{veg}" value="Ghee">Ghee &nbsp;

        <input type="checkbox" th:field="\*{veg}" value="Butter">Butter &nbsp;

        <input type="checkbox" th:field="\*{veg}" value="panner">Panner &nbsp;<br>

        <br> Quries: <br> <textarea cols="30" th:field="\*{contact}" rows="5"></textarea> <br>

        <label>Location: </label>

        <input list="loc" th:field="\*{location}">

        <datalist id="loc">

            <option value="kmp"></option>

            <option value="erode"></option>

            <option value="perudhurai"></option>

            <option value="cbe"></option>

            <option value="salem"></option>

        </datalist> <br><br>

        <button type="submit">Submit</button>

    </form>

   </center>

</body>

</html>

**Succ.html**

<html>

    <body><center><br>

               <h1> Enquiry Successful</h1><br>

        Name:&nbsp;<span th:text="${frm.name}"></span><br><br>

        Email:&nbsp;<span th:text="${frm.email}"></span><br><br>

        Gender:&nbsp;<span th:text="${frm.g1}"></span><br><br>

        Qurie Product:&nbsp;<span th:text="${frm.veg}"></span><br><br>

        Qurie:&nbsp;<span th:text="${frm.contact}"></span><br><br>

        Location:&nbsp;<span th:text="${frm.location}"></span><br><br>

    </center>

</body>

</html>