@RequestMapping("/readcustomerlist")

**public** String listCustomers(Model model)

{

List<Customer> listcustomers=customerservice.getAllCustomers();

model.addAttribute("customersfe",listcustomers);

**return** "customers";

}

@GetMapping("/customers/addform")

**public** String createCustomerForm(Model model)

{

Customer c1=**new** Customer();

model.addAttribute("customer",c1);

**return** "create\_customer";

}

@GetMapping("/customers/editform/{id}")

**public** String editCustomerForm(@PathVariable("id") **int** custid, Model model)

{

Customer custdb=customerservice.getCustomer(custid);

model.addAttribute("customer",custdb);

**return** "edit\_customer";

}

@GetMapping("/deletecustomer/{id}")

**public** String deleteCustomer(@PathVariable("id") **int** custid)

{

customerservice.deleteCustomer(custid);

**return** "redirect:/readcustomerlist";

}

@PostMapping("/addcustomer")

**public** String addcustomer(@ModelAttribute Customer customer)

{

customerservice.addCustomer(customer);

**return** "redirect:/readcustomerlist";

}

@PostMapping("/updatecustomer/{id}")

**public** String updateEmployee(@PathVariable("id") **int** custid, @ModelAttribute("customer") Customer customer)

{

customerservice.updateEmployee(custid,customer);

**return** "redirect:/readcustomerlist";

}

@RequestMapping(value = "/403")

**public** ModelAndView accesssDenied(Principal user) {

ModelAndView model = **new** ModelAndView();

**if** (user != **null**) {

model.addObject("msg", "Hi " + user.getName()

+ ", you do not have permission to access this page!");

} **else** {

model.addObject("msg",

"you do not have permission to access this page!");

}

model.setViewName("403");

**return** model;

}

Service

@Autowired

CustomerRepository customerrepo;

**public** Customer addCustomer(Customer customer) {

**return** customerrepo.save(customer);

}

**public** **void** deleteCustomer(**int** custid) {

customerrepo.deleteById(custid);

}

**public** List<Customer> getAllCustomers() {

**return** customerrepo.findAll();

}

**public** Customer getCustomer(**int** custid) {

**return** customerrepo.findById(custid).get();

}

**public** **void** updateEmployee(**int** custid, Customer customer) {

Customer custdb=customerrepo.findById(custid).get();

custdb.setFirstName(customer.getFirstName());

custdb.setLastName(customer.getLastName());

custdb.setEmail(customer.getEmail());

customerrepo.save(custdb);

}

403.html

<!DOCTYPE html>

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

<head>

<meta charset="ISO-8859-1">

<title>Insert title here</title>

</head>

<body>

<h1> 403 : Forbidden Access</h1>

<h2 th:text="${msg}"></h2>

</body>

</html>

Create\_customer.html

<!DOCTYPE html>

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

<head>

<meta charset="ISO-8859-1">

<title>Customer Management System</title>

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css"

integrity="sha384-Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm" crossorigin="anonymous">

</head>

<body>

<nav class="navbar navbar-expand-md bg-dark navbar-dark">

<!-- Brand -->

<a class="navbar-brand" href="#">Customer Management System</a>

<!-- Toggler/collapsibe Button -->

<button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#collapsibleNavbar">

<span class="navbar-toggler-icon"></span>

</button>

<!-- Navbar links -->

<div class="collapse navbar-collapse" id="collapsibleNavbar">

<ul class="navbar-nav">

<li class="nav-item">

<a class="nav-link" th:href="@{/customers}">Customer Management</a>

</li>

</ul>

</div>

</nav>

<br>

<br>

<div class="container">

<div class="row">

<div class="col-lg-6 col-md-6 col-sm-6 container justify-content-center card">

<h1 class="text-center"> Create New Customer </h1>

<div class="card-body">

<form th:action="@{/addcustomer}" th:object="${customer}" method="POST">

<div class="form-group">

<label> Customer First Name </label>

<input type="text" name="firstName" th:field="\*{firstName}" class="form-control"

placeholder="Enter First Name" />

</div>

<div class="form-group">

<label> Customer Last Name </label>

<input type="text" name="lastName" th:field="\*{lastName}" class="form-control"

placeholder="Enter Last Name" />

</div>

<div class="form-group">

<label> Customer Email </label>

<input type="text" name="email" th:field="\*{email}" class="form-control"

placeholder="Enter Email" />

</div>

<div class="form-group">

<div class="custom-control custom-radio custom-control-inline">

<input type="radio" class="custom-control-input" id="pathogens1"

th:field="\*{gender}" value="Male">

<label class="custom-control-label" for="pathogens1">Male</label>

</div>

<div class="custom-control custom-radio custom-control-inline">

<input type="radio" class="custom-control-input" id="pathogens2"

th:field="\*{gender}" value="Female" checked="checked">

<label class="custom-control-label" for="pathogens2">Female</label>

</div>

</div>

<div class="box-footer">

<button type="submit" class="btn btn-primary">

Submit

</button>

</div>

</form>

</div>

</div>

</div>

</div>

</body>

</html>

Customers.html

<!DOCTYPE html>

<!DOCTYPE html>

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

<head>

<meta charset="ISO-8859-1">

<title>Customer Management System</title>

<link rel="stylesheet"

href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css"

integrity="sha384-Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm"

crossorigin="anonymous">

</head>

<body>

<nav class="navbar navbar-expand-md bg-dark navbar-dark">

<!-- Brand -->

<a class="navbar-brand" href="#">Customer Management System</a>

<!-- Toggler/collapsibe Button -->

<button class="navbar-toggler" type="button" data-toggle="collapse"

data-target="#collapsibleNavbar">

<span class="navbar-toggler-icon"></span>

</button>

</nav>

<div class="container">

<div class="row">

<h1>List Customers</h1>

</div>

<div class="row">

<div class="col-lg-3">

<a th:href="@{/customers/addform}" class="btn btn-primary btn-sm mb-3" >Add Customer</a>

</div>

</div>

<table class="table table-striped table-bordered">

<thead class="table-dark">

<tr>

<th>Customer First Name</th>

<th>Customer Last Name</th>

<th>Customer Email</th>

<th>Customer Gender</th>

<th>Actions</th>

</tr>

</thead>

<tbody>

<tr th:each="customer: ${customersfe}">

<td th:text="${customer.firstName}"></td>

<td th:text="${customer.lastName}"></td>

<td th:text="${customer.email}"></td>

<td th:text="${customer.gender}"></td>

<td><a th:href="@{/customers/editform/{id}(id=${customer.id})}"

class="btn btn-primary">Update</a>

<a th:href="@{/deletecustomer/{id}(id=${customer.id})}"

class="btn btn-danger">Delete</a></td>

</tr>

</tbody>

</table>

</div>

</body>

</html>

Edit\_customer.html

<!DOCTYPE html>

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

<head>

<meta charset="ISO-8859-1">

<title>Employee Management System</title>

<link rel="stylesheet"

href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css"

integrity="sha384-Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm"

crossorigin="anonymous">

</head>

<body>

<nav class="navbar navbar-expand-md bg-dark navbar-dark">

<!-- Brand -->

<a class="navbar-brand" href="#">Customer Management System</a>

<!-- Toggler/collapsibe Button -->

<button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#collapsibleNavbar">

<span class="navbar-toggler-icon"></span>

</button>

<!-- Navbar links -->

<div class="collapse navbar-collapse" id="collapsibleNavbar">

<ul class="navbar-nav">

<li class="nav-item">

<a class="nav-link" th:href="@{/customers}">Customer Management</a>

</li>

</ul>

</div>

</nav>

<br>

<br>

<div class = "container">

<div class = "row">

<div class ="col-lg-6 col-md-6 col-sm-6 container justify-content-center card">

<h1 class = "text-center"> Update Customer </h1>

<div class = "card-body">

<form th:action="@{/updatecustomer/{id} (id=${customer.id})}" th:object = "${customer}" method="POST">

<div class ="form-group">

<label> Employee First Name </label>

<input

type = "text"

name = "firstName"

th:field = "\*{firstName}"

class = "form-control"

placeholder="Enter First Name"

/>

</div>

<div class ="form-group">

<label> Employee Last Name </label>

<input

type = "text"

name = "lastName"

th:field = "\*{lastName}"

class = "form-control"

placeholder="Enter Last Name"

/>

</div>

<div class ="form-group">

<label> Employee Email </label>

<input

type = "text"

name = "email"

th:field = "\*{email}"

class = "form-control"

placeholder="Enter Email"

/>

</div>

<div class = "box-footer">

<button type="submit" class = "btn btn-primary">

Submit

</button>

</div>

</form>

</div>

</div>

</div>

</div>

</body>

</html>