SOURCE CODE

MicroService 1

Employee.java

```java
package com.example.demo;

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


@Entity
@Table(name = "employee")
public class Employee {
     @Id
     private String user;
     private String password;
     private String email;
     public String getUser() {
           return user;
     }
     public void setUser(String user) {
           this.user = user;
     }
     public String getPassword() {
           return password;
     }
     public void setPassword(String password) {
           this.password = password;
     }
     public String getEmail() {
           return email;
     }
     public void setEmail(String email) {
           this.email = email;
     }



}
```

EmployeeController.java

```java
package com.example.demo;

import java.util.logging.Logger;

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

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

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.ResponseBody;
import org.springframework.web.client.RestTemplate;
import org.springframework.web.servlet.ModelAndView;

@Controller
public class EmployeeController {
@Autowired
EmpRepo repo;

Logger log=Logger.getAnonymousLogger();

@RequestMapping("/")
public ModelAndView loadpage(HttpServletRequest request,HttpServletResponse
response) {
    ModelAndView mv=new ModelAndView();
    mv.setViewName("login.jsp");
    log.info("login page loaded");
    return mv;
}


@RequestMapping("/login")
public ModelAndView loginaction(HttpServletRequest
request,HttpServletResponse response) {
    ModelAndView mv=new ModelAndView();
    String user=request.getParameter("user");
    String pwd=request.getParameter("pwd");
    log.info("login request user and pwd ");
    Employee ee=repo.findByuserpwd(user, pwd);
    if(ee!=null) {
    mv.setViewName("display.jsp");
    log.info("went to display");
    mv.addObject("emp",ee);
    }
    else {

        mv.setViewName("fail.jsp");
        log.info("went to fail.jsp");
    }
    return mv;
}

@ResponseBody
@RequestMapping("/registermslogin")
public String regsitermslogin(HttpServletRequest
request,HttpServletResponse response) {

    log.info("registermslogin request loaded");
    String user =request.getParameter("user");
    String password=request.getParameter("pwd");
    String email=request.getParameter("email");

    RestTemplate rest=new RestTemplate();
    String url="http://localhost:8089/register-
user/"+user+"/"+password+"/"+email;
    log.info(url);
```

```java
        rest.getForObject(url, String.class);
        return "registration is successfull";
    }



    }
```

EmpRepo.java

package com.example.demo;

import org.springframework.data.jpa.repository.JpaRepository;

import org.springframework.data.jpa.repository.Query;

public interface EmpRepo extends JpaRepository<Employee,String>{

    String query="select employee from Employee employee where employee.user=?1 and employee.password=?2";

    @Query(query)

    public Employee findByuserpwd(String username,String password);

}

Display.jsp

```jsp
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>

<%@page import="com.example.demo.Employee"%>

<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<%Employee ee=(Employee)request.getAttribute("emp"); %>
<center>
<h1><%="WELCOME  "+ee.getUser()  %></i>
</center>
</body>
</html>
```

Fail.jsp

```jsp
<%@ 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>
<center>
<p style="color: red;">Account does not exist</p>
<a href="register.jsp"> Create New Account</a>

<%@include file="login.jsp" %>
</center>
</body>
</html>
```

Login.jsp

```jsp
<%@ 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>
<center>
<h3>LOGIN PAGE </h3>
<form action="login">
UserName<input type="text" name="user"><br><br>
Password<input type="password" name="pwd"><br><br>
<input type="submit" value="LOGIN">
</form>
</center>
</body>
</html>
```

Register.jsp

```jsp
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>
```

```html
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<center>
<h3>REGISTRATION</h3>
<form action="registermslogin">
Username<input type="text" name="user"><br><br>
Password<input type="password" name="pwd"><br><br>
Email<input type="email" name="email"><br> <br>
<input type="submit" value="REGISTER">

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

MicroService 2

Employee.java

```java
package com.example.demo;

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

import javax.persistence.Table;

@Entity
@Table(name = "employee")
public class Employee {
    @Id
    private String user;
    private String password;
    private String email;
    public String getUser() {
        return user;
    }
    public void setUser(String user) {
        this.user = user;
    }
    public String getPassword() {
        return password;
    }
    public void setPassword(String password) {
        this.password = password;
    }
    public String getEmail() {
```

```java
            return email;
    }
    public void setEmail(String email) {
            this.email = email;
    }


}
```

EmployeeController.java

```java
package com.example.demo;


import java.util.logging.Logger;


import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;


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

import org.springframework.stereotype.Controller;

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

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

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

import org.springframework.web.client.RestTemplate;

import org.springframework.web.servlet.ModelAndView;


@Controller

public class EmployeeController {

@Autowired

EmpRepo repo;


Logger log=Logger.getAnonymousLogger();
```

```java
@ResponseBody

@RequestMapping("/register-user/{user}/{password}/{email}")

public String registerms(HttpServletRequest request,HttpServletResponse
response,@PathVariable("user") String user,@PathVariable("password") String
password,@PathVariable("email") String email) {

        log.info("entered into the ms of the registartion");

        Employee e=new Employee();

        e.setUser(user);

        e.setPassword(password);

        e.setEmail(email);

        repo.save(e);

        return "done";


}


}
```

EmpRepo.java

```java
package com.example.demo;

import org.springframework.data.jpa.repository.JpaRepository;

import org.springframework.data.jpa.repository.Query;

public interface EmpRepo extends JpaRepository<Employee,String>{

        String query="select employee from Employee employee where employee.user=?1
and employee.password=?2";

        @Query(query)

        public Employee findByuserpwd(String username,String password);}
```