# Source Code: ( JAVA – Backend)

## APP CONTROLLER :

package com.example.payment;

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

import org.springframework.stereotype.Controller;

import org.springframework.web.bind.annotation.GetMapping; import org.springframework.web.bind.annotation.PostMapping; import org.springframework.web.bind.annotation.RequestBody; import org.springframework.web.bind.annotation.RequestParam; import org.springframework.web.servlet.ModelAndView;

@Controller

public class AppController { private String id;

@Autowired UserRepository repo; @GetMapping("/") public String login() {

return "login";

}

@GetMapping("/register") public String home() {

return "register";

}

@PostMapping("/registersubmit")

public String registerSubmit(User user) {

if(user.getName().length()>0 && user.getEmail().length()>0 && user.getPassword().length()>0) {

repo.save(user); return "login";

}

else

return "register";

}

@PostMapping("/loginsubmit")

public ModelAndView loginSubmit(User user) { User tempperson;

tempperson = repo.findByEmail(user.getEmail()); id = tempperson.getEmail();

ModelAndView mv = new ModelAndView("home"); ModelAndView emv = new ModelAndView("register"); mv.addObject(tempperson);

// System.out.println("the user is "+id);

// tempperson.setAmount(100);

// repo.save(tempperson);

if(tempperson!=null && tempperson.getPassword().equals(user.getPassword())) { return mv;

}

return emv;

}

@PostMapping("/amountsubmit")

public ModelAndView amountSubmit(User user) { ModelAndView mav = new ModelAndView("home"); User tperson = repo.findByEmail(id);

tperson.setAmount(user.getAmount()+tperson.getAmount());

repo.save(tperson); mav.addObject(tperson);

return mav;

}

@GetMapping("/makeexpense")

public String expensepage(Model model) {

int amount = repo.findByEmail(id).getAmount(); model.addAttribute("amount",amount);

return "makeexpense";

}

@PostMapping("/expensesubmit") public ModelAndView expsubmit(User user) {

User person = repo.findByEmail(id); person.setAmount(person.getAmount()-user.getExpenseamount()); repo.save(person);

ModelAndView mav = new ModelAndView("home"); mav.addObject(person);

return mav;

}

}

## PAYMENT APPLICATION :

package com.example.payment;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication

public class PaymentApplication {

public static void main(String[] args) { SpringApplication.run(PaymentApplication.class, args);

}

}

## USER :

package com.example.payment; import javax.persistence.Entity; import javax.persistence.Id;

@Entity

public class User {

@Id

private String email; private String name; private String password; private int amount; private String expense;

private int expenseamount; private String date;

public String getEmail() { return email;

}

public void setEmail(String email) { this.email = email;

}

public String getName() {

return name;

}

public void setName(String name) { this.name = name;

}

public String getPassword() {

return password;

}

public void setPassword(String password) { this.password = password;

}

public int getAmount() {

return amount;

}

public void setAmount(int amount) { this.amount = amount;

}

public String getExpense() {

return expense;

}

public void setExpense(String expense) { this.expense = expense;

}

public int getExpenseamount() { return expenseamount;

}

public void setExpenseamount(int expenseamount) { this.expenseamount = expenseamount;

}

public String getDate() {

return date;

}

public void setDate(String date) { this.date = date;

}

}

## USER REPOSISTORY :

package com.example.payment;

import org.springframework.data.jpa.repository.JpaRepository; public interface UserRepository extends JpaRepository<User, String>{

User findByEmail(String email);

}

## Frontend :

* **HOME :**

<html xmlns:th="[http://www.thymeleaf.org"](http://www.thymeleaf.org/)>

<head>

<title>DPB</title>

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

</head>

<body>

<div class="container">

<div>

<h1 th:text="'Your curent amount is ' + ${user.amount}"></h1>

<form th:action="@{/amountsubmit}" method="POST">

<label for="amount">Add Amount:</label>

<input type ="number" min="10" max="1000000" name="amount"><input type="submit"><br><br><br>

<a th:href="@{/makeexpense}">Make Payment</a><br><br><br><br>

<a th:href="@{/makeexpense}">Payment History</a>

</form>

</div>

</div>

</body>

</html>

## LOGIN :

<html xmlns:th="[http://www.thymeleaf.org"](http://www.thymeleaf.org/)>

<head>

<title>Login</title>

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

</head>

<body>

<div class="container">

<div class="inner">

<div class="form">

<h1>DPB</h1>

<form th:action="@{/loginsubmit}" method="POST">

<input type="email" placeholder="Email" name="email"><br>

<input type="password" placeholder="Password" name="password"><br>

<input type="submit">

</form>

</div>

<div class="signup">

<h1>Digital Payment Book<p>Already have an account?</p><a th:href="@{/register}">Create Account</a></h1>

</div>

</div>

</div>

</body>

</html>

## MAKE PAYMENT :

<html xmlns:th="[http://www.thymeleaf.org"](http://www.thymeleaf.org/)>

<head>

<title>ET-Make Payment</title>

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

</head>

<body>

<div class="container">

<div>

<h1 th:text="'Your curent amount is ' + ${amount}"></h1>

<form th:action="@{/expensesubmit}" method="POST">

<label for="expense">Type of payment</label><br>

<select id="expense" name="expense">

<option value="credit">credit</option>

<option value="debit">Debit</option>

<option value="upi">UPI</option>

</select><br>

<div class="input">

<label for="expenseamount">payment Amount</label><br>

<input type="number" name="expenseamount" min="10" max="1000000"><br>

</div>

<div class="input">

<label for="date">Date of payment</label><br>

<input type="date" name="date">

<br>

<input type="submit"><br><br>

<a th:href="@{/home}">Home</a>

</div>

</form>

<footer>&copy payment</footer>

</div>

</div>

</body>

</html>

## REGISTER :

<html xmlns:th="[http://www.thymeleaf.org"](http://www.thymeleaf.org/)>

<head>

<title>Registration</title>

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

</head>

<body>

<div class="container">

<div class="inner">

<div class="form">

<h1>DPB</h1>

<form th:action="@{/registersubmit}" method="POST">

<input type="text" placeholder="Name" name="name"><br>

<input type="email" placeholder="Email" name="email"><br>

<input type="password" placeholder="Password" name="password"><br>

<input type="submit">

</form>

</div>

<div class="signup">

<h1>digital-Payment-Book<br><p>Already have an account?<br><br><a th:href="@{/login}">login</a></p></h1>

</div>

</div>

</div>

</body>

</html