package services;

public class User {

private String first\_name; private String last\_name;

@DateTimeFormat(iso = DateTimeFormat.ISO.DATE) private LocalDate date\_of\_birth;

private String pid; private String email; private String country; private String city; private String postal;

public String getFirst\_name() { return first\_name;

}

public String getLast\_name() { return last\_name;

}

public LocalDate getDate\_of\_birth() { return date\_of\_birth;

}

public String getPid() { return pid;

}

public String getEmail() { return email;

}

public String getCountry() {

return country; }

public String getCity() { return city;

}

public String getPostal() { return postal;

}

public void setFirst\_name(String first\_name) { this.first\_name = first\_name;

}

public void setLast\_name(String last\_name) { this.last\_name = last\_name;

}

public void setDate\_of\_birth(LocalDate date\_of\_birth) { this.date\_of\_birth = date\_of\_birth;

}

public void setPid(String pid) { this.pid = pid;

}

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

}

public void setCountry(String country) { this.country = country;

}

public void setCity(String city) { this.city = city;

}

public void setPostal(String postal) { this.postal = postal;

} }

//................................................................................

@Controller

public class UserController {

@RequestMapping(value = "/new\_user", method = RequestMethod.GET) public String newForm(Model model) {

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

return "new\_user"; }

@RequestMapping(value = "/new\_user", method = RequestMethod.POST) public String sum(@ModelAttribute("user")User user, BindingResult

result, ModelMap model) {

model.addAttribute("first\_name", user.getFirst\_name()); model.addAttribute("last\_name", user.getLast\_name());

model.addAttribute("date\_of\_birth", user.getDate\_of\_birth()); model.addAttribute("pid", user.getPid()); model.addAttribute("email", user.getEmail()); model.addAttribute("country", user.getCountry()); model.addAttribute("city", user.getCity()); model.addAttribute("postal", user.getPostal());

return "confirmation";

}

}

//.................................................................................

<%@page contentType="text/html" pageEncoding="UTF-8"%>

<%@taglib uri="http://www.springframework.org/tags/form" prefix="form"%>

<!DOCTYPE html>

<html> <head>

<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">

<title>New User</title>

<style>

.field {

clear:both; padding:5px;

}

.field label {

text-align: left; width:100px; float:left;

}

.error {

color: red; }

</style>

</head>

<body>

<form:form action="new\_user.htm" method="post" commandName="user">

<div class="field">

<form:label path="first\_name">First name</form:label>

<form:input path="first\_name" /> </div>

<div class="field">

<form:label path="last\_name">Last name</form:label> <form:input path="last\_name" />

</div>

<div class="field">

<form:label path="date\_of\_birth">Date of birth</form:label>

<form:input path="date\_of\_birth" type="date" id="date\_field"/>

</div>

<div class="field">

<form:label number</form:label>

<form:input </div>

path="pid">Personal ID

path="pid"/>

<div class="field">

<form:label path="email">Email</form:label> <form:input path="email" />

</div>

<div class="field">

<form:label path="country">Country</form:label> <form:input path="country" />

</div>

<div class="field">

<form:label path="city">City</form:label> <form:input path="city" />

</div>

<div class="field">

<form:label path="postal">Postal code</form:label> <form:input path="postal" />

</div>

<input type="submit" value="Submit"/> </form:form>

</body> </html>

//................................................................................

<%@page contentType="text/html" pageEncoding="UTF-8"%> <!DOCTYPE html>

<html> <head>

<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">

<title>User data</title> </head>

<body>

<h1>You entered following data:</h1> <p>First name: ${first\_name}</p> <p>Last name: ${last\_name}</p>

<p>Date of birth: ${date\_of\_birth}</p> <p>Personal ID number: ${pid}</p> <p>Email: ${email}</p>

<p>Country: ${country}</p> <p>City ${city}</p>

<p>Postal ${postal}</p>

</body> </html>

//................................................................................

@NotEmpty private String

@NotEmpty private String

first\_name;

last\_name;

@NotNull

private LocalDate date\_of\_birth;

@NotEmpty private String

@Email @NotEmpty private String

@NotEmpty private String

@NotEmpty private String

pid;

email;

country;

city;

@NotEmpty

private String postal;

//.................................................................................

@RequestMapping(value = "/new\_user", method = public String sum(@ModelAttribute("user")

BindingResult result, ModelMap model) {

RequestMethod.POST) @Valid User user,

if (result.hasErrors()) {

return "new\_user"; }model.addAttribute("first\_name", user.getFirst\_name()); model.addAttribute("last\_name", user.getLast\_name()); model.addAttribute("date\_of\_birth",

user.getDate\_of\_birth());

model.addAttribute("pid", user.getLast\_name()); model.addAttribute("email", user.getLast\_name()); model.addAttribute("country", user.getLast\_name()); model.addAttribute("city", user.getLast\_name()); model.addAttribute("postal", user.getLast\_name());

return "confirmation";

}

//.................................................................................

<div class=" label ">

<form:label path="first\_name">First name</form:label> <form:input path="first\_name" />

<form:errors path="first\_name" cssClass="error"></form:errors> </div>

<div class="field">

<form:label path="last\_name">Last name</form:label> <form:input path="last\_name" />

<form:errors path="last\_name" cssClass="error"></form:errors> </div>

<div class="field">

<form:label path="date\_of\_birth">Date of birth</form:label> <form:input path="date\_of\_birth" type="date" id="date\_field"/> <form:errors path="date\_of\_birth" cssClass="error"></form:errors> </div>

<div class="field">

<form:label path="pid">Personal ID number</form:label> <form:input path="pid"/>

<form:errors path="pid" cssClass="error"></form:errors> </div>

<div class="field">

<form:label path="email">Email</form:label> <form:input path="email" />

<form:errors path="email" cssClass="error"></form:errors> </div>

<div class="field">

<form:label path="country">Country</form:label> <form:input path="country" />

<form:errors path="country" cssClass="error"></form:errors> </div>

<div class="field">

<form:label path="city">City</form:label> <form:input path="city" />

<form:errors path="city" cssClass="error"></form:errors> </div>

<div class="field">

<form:label path="postal">Postal code</form:label> <form:input path="postal" />

<form:errors path="postal" cssClass="error"></form:errors> </div>

//................................................................................

package annotations;

import javax.validation.ConstraintValidator;

import javax.validation.ConstraintValidatorContext;

public class PidConstraintValidator implements ConstraintValidator<Pid, String> {

@Override

public void initialize(Pid constraintAnnotation) {

}

@Override

public boolean isValid(String pidValue, ConstraintValidatorContext context) {

//pid must be exactly 12 digits if (!(pidValue.length() == 12)) {

return false; }

//split string char[] letters

to array of chars

= pidValue.toCharArray();

//check each char is digit

for (int i = 0; i < letters.length; i++) { if (!(Character.isDigit(letters[i]))) {

return false; }

}

//get day

String day\_s = String.valueOf(letters[0]) + String.valueOf(letters[1]);

int day\_i = Integer.valueOf(day\_s);

//get month

String month\_s = String.valueOf(letters[2]) + String.valueOf(letters[3]);

int month\_i = Integer.valueOf(month\_s);

//get year

String year\_s = String.valueOf(letters[4]) + String.valueOf(letters[5]) + String.valueOf(letters[6]);

int year\_i = Integer.valueOf(year\_s);

//day can not be greater than 31 or less than 1 if (day\_i > 31 || day\_i < 1) {

return false; }

//month can be greater than 12 or less than 1 if (month\_i > 12 || month\_i < 1) {

return false; }

//year can not be greater than 16 (2016 - current year) //max life expectancy 166 year

if (year\_i < 850 && year\_i > 16) { return false;

}

return true; }

}

//.................................................................................