

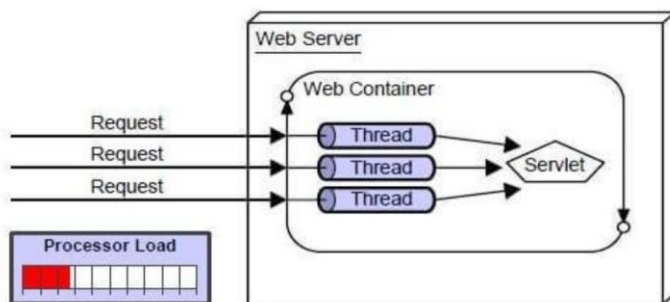
SPRINT-1

DATE	18 NOV 2022
TEAM ID	PNT2022TMID14901
PROJECT NAME	PLASMA DONAR APPLICATION

As a user, I can register as a new user in my application by entering my Email, DOB, Gender, Age etc.... by using a technology called servlet.

Why servlet?

1. **Better performance:** because it creates a thread for each request, not process.
2. **Portability:** because it uses Java language.
3. **Robust:** JVM manages Servlets, so we don't need to worry about the memory leak, garbage collection etc.
4. **Secure:** because it uses java language.



SERVLET SOURCE CODE FOR

REGISTRATION

```
<script>
import TextInput from '../components/TextInput.svelte'
// import { isEmpty } from '../helpers/validation.js'
// import { isValidEmail } from '../helpers/validation.js'
// import { isValidAge } from '../helpers/validation.js'
// import { isValidPassword } from '../helpers/validation.js'
// import { isValidConfirmPassword } from '../helpers/validation.js'
let userName = ''
let userEmail = ''
let userDob = ''
let userGender
let phoneNumber = ''
let userAge = ''
let userPassword = ''
```

```

let userConfirmPassword = ''
$: validUserName = !isEmpty(userName)
$: validUserEmail = isValidEmail(userEmail)
$: validUserDob = !isEmpty(userDob)
$: validPhoneNumber = !isEmpty(phoneNumber)
$: validUserAge = isValidAge(userAge)
$: validUserPassword = isValidPassword(userPassword)
$: validUserConfirmPassword = isValidConfirmPassword(userConfirmPassword)
function isEmpty(val) {
return val.trim().length === 0
}
function isValidEmail(val) {
return new RegExp(
"[a-z0-9!#$%&'*/=?^_`{|}~-]+(?:[a-z0-9!#$%&'*/=?^_`{|}~-]+)*@(?:[a-
z0-9](?:[a-z0-9-]*[a-z0-9])?.)+[a-z0-9](?:[a-z0-9-]*[a-z0-9])?"
).test(val)
}
function isValidPassword(val) {
return new RegExp(
'^(?=[a-z])(?=.*[A-Z])(?=.*[0-9])(?=.*[!@#$%^&*])(?=[8,])'
).test(val)
}
function isValidConfirmPassword(val) {
if (val === userPassword) {
return true
} else {
return false
}
}
function isValidAge(val) {
if (val < 18) {
// validUserAge = "Age is below 18,Not Eligible"
return false
} else if (val > 50) {
// validUserAge = "Age is above 50,Not Eligible"
return false
}
return true
}
</script>
<form action=""|"" class="container relative modal-box"
on:submit|preventDefault>
<h1 class="mb-4 mr-auto mt-16 text-3xl uppercase md:mt-0 md:mb-8">
Register

```

```

</h1>
<label
for="register-modal"
class="absolute btn btn-sm btn-circle right-2 top-2"
>X
</label>
<TextInput
type="text"
label="Name:"
id="name"
name="username"
placeholder="UserName"
inputIcon="fa-solid fa-user"
valid={validUserName}
validityMessage="Please Fill in Your Name"
value={userName}
on:input={({event}) => {
  userName = event.target.value
}}
/>
<TextInput
type="email"
label="Email ID:"
id="email"
name="email"
placeholder="example@123.com"
inputIcon="fa-solid fa-envelope"
valid={validUserEmail}
validityMessage="Please Fill in Your Email ID"
value={userEmail}
on:input={({event}) => {
  userEmail = event.target.value
}}
/>
<TextInput
type="date"
label="DOB:"
id="dateOfBirth"
name="dob"
inputIcon="fa-solid fa-calendar-days"
valid={validUserDob}
validityMessage="DOB is required"
value={userDob}
on:input={({event}) => {
  userDob = event.target.value
}}

```

```

/>
<TextInput
contentType="radioType"
type="radio"
label="Gender:"
id="gender"
name="gender"
inputIcon="fa-solid fa-person-half-dress"
valid={true}
validityMessage="Gender is required"
value={userGender}
on:change={{(event) => {
userGender = event.target.value
}}}
/>
<TextInput
type="number"
label="Mobile:"
id="mobile no"
name="mobile"
maxlength="10"
placeholder="Phone number"
inputIcon="fa-solid fa-phone"
valid={validPhoneNumber}
validityMessage="Please Fill in Your Mobile number"
value={phoneNumber}
on:input={{(event) => {
phoneNumber = event.target.value
}}}
/>
<TextInput
contentType="ageType"
type="number"
label="Age:"
id="age"
name="age"
placeholder="Age 18 - 50"
inputIcon="null"
valid={validUserAge}
validityMessage="Please Fill in Your Age"
value={userAge}
on:input={{(event) => {
userAge = event.target.value
}}}
/>
<TextInput
type="password"
label="Create Password:"

```

```

id="createPassword"
name="password"
placeholder="Password@123"
inputIcon="fa-solid fa-lock"
valid={validUserPassword}
validityMessage="Use a strong password"
value={userPassword}
on:input={(event) => {
  userPassword = event.target.value
}}
/>
<TextInput
  type="password"
  label="Confirm Password:"
  id="confirmPassword"
  name="confirmPassword"
  placeholder="Password@123"
  inputIcon="fa-solid fa-lock"
  valid={validUserConfirmPassword}
  validityMessage="Password do not match"
  value={userConfirmPassword}
  on:input={(event) => {
    userConfirmPassword = event.target.value
  }}
/>
<div class="buttons">
  <button type="submit">Submit</button>
  <button type="reset">Reset</button>
</div>
</form>
<style>
.container {
  display: flex;
  flex-direction: column;
  align-items: center;
  justify-content: center;
  width: 90%;
  max-width: 700px;
  padding: 3em 1.5em 1.5em;
  font-size: 1.25rem;
  border-radius: 1rem;
  border: 2px solid var(--clr-primary-400);
}
.buttons {
  display: flex;
  justify-content: space-between;
  width: 75%;
  max-width: 400px;

```

```

}
.buttons * {
padding: 0.3em 1.2em;
color: var(--clr-primary);
font-size: 1.175rem;
font-weight: 600;
background-color: var(--clr-primary-400);
border-radius: 100vmax;
text-transform: uppercase;
box-shadow: 0 5px 10px rgba(0, 0, 0, 0.5);
}
@media (max-width: 50em) {
.modal-box {
max-height: max-content;
padding: 1em;
top: 2em;
}
.modal-box h1 {
margin: 0 auto 0.5em 0;
}
.buttons {
width: 100%;
}
}
</style>

```

TEST CASE FOR REGISTRATION CODE

The screenshot displays a web browser window with the URL 'plasma-donor.netlify.app'. The page has a yellow header with the 'Plasma Bank' logo and 'LOGIN' and 'REGISTER' buttons. A modal box titled 'REGISTER' is open, containing the following form fields:

- Name:
- Email ID:
- DOB:
- Gender: ☐ Male ☐ Female ☐
- Mobile:
- Age:
- Create Password:
- Confirm Password:

At the bottom of the modal are 'SUBMIT' and 'RESET' buttons. The background of the page features a large graphic with the text 'GIVE PLASMA SAVE LIVES' and an illustration of a plasma donation bag.

THUS THE REGISTRATION CODE FOR SERVLET HAS BEEN EXECUTED SUCCESSFULLY.