IMPLEMENTING WEB APPLICATION

CREATE UI TO INTERACT WITH WEB APPLICATION

INDEX.HTML:

```
HTML CODE:
{% extends 'index.html' %}
{% block title %}Home{% endblock title %}
{% block style %}
    <link rel="stylesheet" href="{{ url for('sprint1.static',</pre>
filename="css/homestyle.css") }}">
{% endblock style %}
{% block content %}
    <div class="fullscreen">
        <nav class="navbar bg-white">
            <div class="ps-3">
                 <a class="navbar-icon" href="{{ url for('sprint1.home')}</pre>
}}">Plasma Donor</a>
                 <div class="nav-content">
                     <a class="nav-content-item" href="{{</pre>
url for('sprint1.home') }}">HOME</a>
                     {% if 'Organisation' in session %}
                         <a class="nav-content-item" href="{{</pre>
url_for('sprint3.donor_request') }}" id="RequestLink1">REQUEST</a>
                     {% else %}
                         {% if 'user' not in session %}
                             <a class="nav-content-item" data-bs-</pre>
toggle="modal" data-bs-target="#loginmodal" id="RequestLink2" data-
type="AsOrg">REQUEST</a>
                             <a class="nav-content-item" data-bs-</pre>
toggle="modal" data-bs-target="#loginmodal" id="DonateLink2" data-
type="AsDonor">DONATE</a>
                         {% else %}
                             <a class="nav-content-item" href="/donate-</pre>
plasma">DONATE</a>
                         {% endif %}
                     {% endif %}
                 </div>
            </di>
            <div class="nav-content-right">
                 {% if 'user' not in session and 'Organisation' not in
session %}
                     <a class="nav-content-item" data-bs-toggle="modal"</pre>
data-bs-target="#login-as-modal" id="LoginButton">LOGIN</a>
                     <a class="nav-content-item" id="RequestLink" data-bs-</pre>
toggle="modal" data-bs-target="#Register-modal">REGISTER</a>
                 {% else %}
                     {% if 'user' in session %}
                         <a class="nav-content-item" href="/donor-</pre>
profile">PROFILE</a>
                         <a class="nav-content-item"</pre>
href="/logout">LOGOUT</a>
                     {% else %}
                         <a class="nav-content-item" href="/org-</pre>
profile">PROFILE</a>
                         <a class="nav-content-item" href="/org-</pre>
logout">LOGOUT</a>
```

```
{% endif %}
                 {% endif %}
                 <div class="dropstart dropdown-align">
                     <a class="fa-solid fa-bars" data-bs-toggle="dropdown"</pre>
id="NavItems"></a>
                     <div class="dropdown-menu" aria-labelledby="NavItems">
                         <a class="dropdown-item" href="{{</pre>
url for('sprint1.home') }}">HOME</a>
                         {% if 'Organisation' in session %}
                             <a class="dropdown-item" href="/org-</pre>
profile">PROFILE</a>
                             <a class="dropdown-item" href="{{</pre>
url for('sprint3.donor request') }}" id="RequestLink1">REQUEST</a>
                         {% else %}
                             {% if 'user' not in session %}
                                 <a class="dropdown-item" data-bs-</pre>
toggle="modal" data-bs-target="#loginmodal" id="RequestLink2">REQUEST</a>
                                  <a class="dropdown-item">DONATE</a>
                              {% else %}
                                  <a class="dropdown-item" href="/donate-</pre>
plasma">DONATE</a>
                              {% endif %}
                         {% endif %}
                         <hr class="mb-2 mt-2">
                         {% if 'user' not in session and 'Organisation' not
in session %}
                             <a class="dropdown-item" data-bs-toggle="modal"</pre>
data-bs-target="#login-as-modal" id="navLogin">LOGIN</a>
                             <a class="dropdown-item" data-bs-toggle="modal"</pre>
data-bs-target="#Register-modal" id="navRegister">REGISTER</a>
                         {% else %}
                              {% if 'Organisation' in session %}
                                  <a class="dropdown-item" href="/org-</pre>
logout">LOGOUT</a>
                              {% else %}
                                  {% if 'user' in session %}
                                      <a class="dropdown-item" href="/donor-</pre>
profile">PROFILE</a>
                                      <a class="dropdown-item"</pre>
href="/logout">LOGOUT</a>
                                 {% endif %}
                             {% endif %}
                         {% endif %}
                     </div>
                 </div>
            </div>
        </nav>
        <div class="modal fade" id="loginmodal" tabindex="-1" aria-</pre>
labelledby="loginmodalLabel" aria-hidden="true">
            <div class="modal-dialog modal-dialog-centered">
                 <div class="modal-content p-5">
                     <div class="modal-header">
                         <h3 class="modal-title login-header">Login</h3>
                         <button class="btn-close" data-bs-dismiss="modal"</pre>
aria-label="close"></button>
                     </div>
```

```
<!--- Login form --->
                     <form method="POST" autocomplete="off" id="loginform">
                         <div class="modal-body">
                             <div class="alert alert-info" type="alert"</pre>
id="RequestLoginForDonorPage" style="display: none">
                                  Please login to proceed further.
                             </div>
                             <input class="ignore" type="hidden"</pre>
name="csrf token" value="{{ csrf token() }}">
                             <div class="pb-2">
                                  <label for="UserName" class="form-</pre>
label">Username <span id="UserNameValidate"></span></label>
                                 <input class="form-control" type="email"</pre>
id="UserName" name="username" placeholder="username@gmail.com">
                             </div>
                             <div class="pb-2">
                                  <label for="LoginPassword" class="form-</pre>
label">Password <span id="LoginPasswordValidate"></span></label>
                                 <div class="input-group">
                                     <input class="form-control"</pre>
type="password" id="LoginPassword" name="loginpassword"
placeholder="Password">
                                      <span class="input-group-text eye fa-</pre>
solid fa-eye" id="ShowLoginPassword"></span>
                                 </div>
                             </div>
                             <div class="d-flex justify-content-end">
                                  <a href="/request-reset">Forgot
Password?</a>
                             </div>
                         </div>
                         <hr class="mt-0">
                         <div class="d-grid gap-2 pb-2">
                             <button class="btn btn-primary" type="submit"</pre>
id="login-button">LOGIN</button>
                             <button class="btn btn-primary" id="spinner-</pre>
button" disabled>
                                  <span class="spinner-border text-</pre>
light"></span>
                             </button>
                         </div>
                         <span class="d-flex justify-content-center"</pre>
style="white-space: pre">Don't have an account? <a href="/register">Create
Account</a></span>
                     </form>
                 </div>
            </div>
        </div>
        <div class="modal fade" id="login-as-modal" tabindex="-1" aria-</pre>
labelledby="login-as-modal" aria-hidden="true">
            <div class="modal-dialog modal-dialog-centered">
                 <div class="modal-content p-3 pb-5">
                     <div class="modal-header">
                         <h3 class="modal-title">Login As</h3>
                         <button class="btn-close" data-bs-dismiss="modal"</pre>
aria-label="close"></button>
                     </div>
                     <div class="modal-body">
                         <div class="row row-cols-2 pt-4">
                             <div class="col" style="text-align: center">
```

```
<div class="d-grid As gap-1" id="Login-As"</pre>
data-bs-toggle="modal" data-bs-target="#loginmodal" data-type="AsDonor">
                                      <div class="fa-solid fa-user fa-5x"</pre>
style="color: rgba(117, 117, 117)"></div>
                                          <strong style="color: rgba(117,</pre>
117, 117) ">Donor</strong>
                                  </div>
                             </div>
                              <div class="col" style="text-align: center">
                                  <div class="d-grid As gap-1" id="Login-As"</pre>
data-bs-toggle="modal" data-bs-target="#loginmodal" data-type="AsOrg">
                                      <div class="fa-solid fa-building fa-5x"</pre>
style="color: rgba(117, 117, 117)"></div>
                                      <strong style="color: rgba(117, 117,</pre>
117) ">Organisation</strong>
                                  </div>
                             </div>
                         </div>
                     </div>
                 </div>
            </div>
        </div>
        <div class="modal fade" id="Register-modal" tabindex="-1" aria-</pre>
labelledby="Register-modal" aria-hidden="true">
            <div class="modal-dialog modal-dialog-centered">
                 <div class="modal-content p-3 pb-5">
                     <div class="modal-header">
                         <h3 class="modal-title">Register As</h3>
                         <button class="btn-close" data-bs-dismiss="modal"</pre>
aria-label="close"></button>
                     </div>
                     <div class="modal-body">
                         <div class="row row-cols-2 pt-4">
                             <div class="col" style="text-align: center">
                                  <div class="d-grid As gap-1" id="Register-</pre>
As" data-register-as="Donor">
                                      <div class="fa-solid fa-user fa-5x"
style="color: rgba(117, 117, 117)"></div>
                                          <strong style="color: rgba(117,</pre>
117, 117) ">Donor</strong>
                                  </div>
                             </div>
                              <div class="col" style="text-align: center">
                                  <div class="d-grid As gap-1" id="Register-
As" data-register-as="Org">
                                      <div class="fa-solid fa-building fa-5x"</pre>
style="color: rgba(117, 117, 117)"></div>
                                      <strong style="color: rgba(117, 117,</pre>
117) ">Organisation</strong>
                                  </div>
                             </div>
                         </div>
                     </div>
                 </div>
            </div>
        </di>
        <div class="row row-width">
             <div class="col-sm-12 pb-3">
                 <h2 class="intro" style="color: #0a53be">IBM PLASMA
```

```
DONOR<br/>
br>APPLICATION</h2>
            </di>
            <div class="col-sm-12">
                Let's not wait for a long time in search for a Plasma
Donor. Here is the solution.
                    We help by connecting you with all the donors available
near you. You could raise a request for Plasma Requirement.
                    Every Donor will undergo COVID-19 Test before donation.
            </div>
            <div class="row row-width">
                <div class="col-sm-12 pb-3">
                    <h2>Need for Plasma Donation: <br>Why?</h2>
                </div>
                <div class="col-sm-12">
                    The Plasma Therapy is an approach to treat the
COVID-positive patients and help them to recover.
                        Plasma Therapy is considered to be safe and
promising. A person who has recovered from COVID-19 can donate his/her
                        plasma to a person, who is infected by corona
virus
                    </div>
            </div>
        </div>
        <div class="row row-cols-2">
            <div class="col-sm-12 pb-2">
                <h2>BEING OUR USER</h2>
            </div>
            <div class="col-sm-6" style="text-align: center">
                <div class="row row-width" style="padding-top: 1.5rem; max-</pre>
width: 40rem">
                    <div class="col-sm-12 pb-3">
                        <h2>As Donor</h2>
                    </div>
                    <div class="col-sm-12">
                        You can register as donor. As a donor you could
donate your plasma for needy.
                            Your information will be safe. If you are
interested in plasma donation you can donate by sending a request
                            to a plasma transplant center, after approval
of your request you'll be contacted by the transplant center.
                        </div>
                </div>
            </div>
            <div class="col-sm-6" style="text-align: center">
                <div class="row" style="padding-top: 1.5rem; max-width:</pre>
40rem">
                    <div class="col-sm-12 pb-3">
                        <h2>As Organisation</h2>
                    </div>
                    <div class="col-sm-12">
                        Signing-up as an organisation, you have to
provide the required credentials. After verification of the information you
                            provided, you'll be give a login credential via
the domain mail address you have given. As organisation, you have
authorisation
                            for requesting plasma under your former donor's
information & all the registered donors.
```

```
</div>
                </div>
            </div>
            <div class="row row-cols-2" style="margin-bottom: 10rem;</pre>
padding-top: 0">
                <div class="col-sm-6">
                    <div class="row row-width">
                         <div class="col-sm-12 pb-1">
                             <h2>Existing User ?</h2>
                         </div>
                         <div class="col-sm-12">
                             Login As
                         </div>
                     </div>
                     <div class="row row-width row-cols-2" style="padding-</pre>
top: 1rem">
                         <div class="col-sm-6" style="text-align: end">
                             <button class="btn btn-primary" style="width:</pre>
250px!important; padding: 15px 0;border-radius: 40px" id="Login-As" data-
bs-toggle="modal" data-bs-target="#loginmodal" data-type="AsDonor">
                                 Login as Donor
                             </button>
                         </div>
                         <div class="col-sm-6" style="text-align: start">
                             <button class="btn btn-primary" style="width:</pre>
250px!important; padding: 15px 0;border-radius: 40px" id="Login-As" data-
bs-toggle="modal" data-bs-target="#loginmodal" data-type="AsOrg">
                                 Login as Organisation
                             </button>
                         </div>
                    </div>
                </div>
                <div class="col-sm-6">
                    <div class="row row-width">
                         <div class="col-sm-12 pb-1">
                             <h2>New User ?</h2>
                         </div>
                         <div class="col-sm-12">
                             Register As
                         </div>
                     </div>
                     <div class="row row-width row-cols-2" style="padding-</pre>
top: 1rem">
                         <div class="col-sm-6" style="text-align: end">
                             <button class="btn btn-primary" style="width:</pre>
250px!important; padding: 15px 0;border-radius: 40px" id="Register-As"
data-register-as="Donor">
                                 Register as Donor
                             </button>
                         </div>
                         <div class="col-sm-6" style="text-align: start">
                             <button class="btn btn-primary" style="width:</pre>
250px!important; padding: 15px 0;border-radius: 40px" id="Register-As"
data-register-as="Org">
                                 Register as Organisation
                             </button>
                         </div>
                    </div>
                </div>
            </div>
        </div>
```

```
</div>
{% endblock content %}
{% block javascript %}
    <script src="{{ url for('sprint1.static', filename="js/login.js")</pre>
<script>
        const csrf token = "{{ csrf token() }}";
        $.ajaxSetup({
            beforeSend: function(xhr, settings) {
                if (!/^(GET|HEAD|OPTIONS|TRACE)$/i.test(settings.type)) {
                    xhr.setRequestHeader("X-CSRFToken", csrf token);
        });
    </script>
{% endblock javascript %}
CSS CODE:
.row {
    width: 100%;
    margin: 0 auto;
    padding-top: 5rem;
}
.row-width {
   max-width: 50rem;
.col-sm-12 {
    position: relative;
    text-align: center;
.intro {
    font-size: 3rem;
    letter-spacing: 2px;
    font-weight: bold;
}
h2 {
    font-size: 2.5rem;
}
p {
    font-size: 1.5rem;
}
.As{
    border: 1px solid darkgray;
    border-radius: 0.75rem;
   padding: 40px 0 20px;
   user-select: none;
    cursor: pointer;
}
.As:hover {
   box-shadow: 0 0 7px rgba(117,117,117,40%);
```

LOGIN.JS:

```
/* Events during redirection behaviour of REQUEST $ DONATE button */
$(document).on('click', '#RequestLink2', function (){
    const loginAs = $(this).attr('data-type');
    $('#login-button').attr('data-userinfo', loginAs);
    $('#RequestLoginForDonorPage').css({display: 'block'});
$(document).on('hidden.bs.modal','#loginmodal',function (){
    $('#RequestLoginForDonorPage').css({display: 'none'});
    $('#loginform')[0].reset();
    if($('#UserNameValidate').attr('class')) {
        $('#UserNameValidate').text('');
        $('#UserNameValidate').removeClass('error');
    if($('#LoginPasswordValidate').attr('class')) {
        $('#LoginPasswordValidate').text('');
        $('#LoginPasswordValidate').removeClass('error');
    }
});
$(document).on('click', '#DonateLink2', function (){
    const loginAs = $(this).attr('data-type');
    $('#login-button').attr('data-userinfo', loginAs);
    $('#RequestLoginForDonorPage').css({display: 'block'});
});
/* --- Login Form Validation --- */
$(document).on('submit', '#loginform', function (e){
    e.preventDefault();
    $('#loginform').validate({
        focusCleanup: true,
        focusInvalid: false,
        ignore: '.ignore',
        debug: true,
        rules: {
            username: {
                required: true,
            },
            loginpassword: {
                required: true,
        },
        errorPlacement: function (error, element) {
            const ele = $(element).attr('id');
            error.insertAfter('#'+ele+'Validate');
        },
    }):
    $('#loginform').validate();
    if($('#loginform').valid()) {
        $('#login-button').hide();
        $('#spinner-button').show();
        const form = new FormData($('#loginform')[0]);
        let loginform = Object.fromEntries(form.entries());
        loginform['title'] = document.title;
        if (document.title !== 'Administrator Login') {
            loginform['loginAs'] = $('#login-button').attr('data-
userinfo');
        $.ajax({
            type: 'POST',
            url: '/login',
```

```
contentType: 'application/json',
       success: function (response) {
            if(response['status'] === 'logged-in') {
                $('#login-button').show();
                $('#spinner-button').hide();
                // Removing error class
                if($('#UserNameValidate').attr('class')) {
                    $('#UserNameValidate').text('');
                    $('#UserNameValidate').removeClass('error');
                if($('#LoginPasswordValidate').attr('class')) {
                    $('#LoginPasswordValidate').text('');
                    $('#LoginPasswordValidate').removeClass('error');
                if (response['user'] === 'ADMIN') {
                    window.location.href = '/Administrator';
                else if (response['user'] === 'Org') {
                   window.location.href = '/';
                else {
                   window.location.href = '/';
            else if(response['status'] === 'Invalid-User') {
                $('#login-button').show();
                $('#spinner-button').hide();
                $('#UserNameValidate').html('Invalid Username');
                $('#UserNameValidate').attr('class', 'error');
            else {
                // Remove error class in UserName
                if($('#UserNameValidate').attr('class')) {
                   $('#UserNameValidate').removeClass('error');
                   $('#UserNameValidate').html('');
                $('#login-button').show();
                $('#spinner-button').hide();
                $('#LoginPasswordValidate').html('Invalid Password');
                $('#LoginPasswordValidate').attr('class', 'error');
            }
        },
        error: function (response) {
            if (response['user'] === 'ADMIN') {
                $('#login-button').show();
                $('#spinner-button').hide();
                alert('ERROR');
                window.location.href = '/administrator-login';
            }
            else {
                $('#login-button').show();
                $('#spinner-button').hide();
                alert('ERROR');
                window.location.href = '/';
       },
   });
}
```

data: JSON.stringify(loginform),

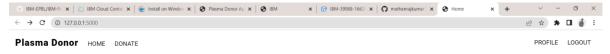
```
});
/* --- Show Password --- */
$(document).on('click', '.eye', function () {
    const ID = $(this).prev();
    if(ID.attr('type') === 'password') {
        ID.attr('type', 'text');
        $(this).attr('class', 'input-group-text eye fa-solid fa-eye-
slash');
    else {
        ID.attr('type', 'password');
        $(this).attr('class', 'input-group-text eye fa-solid fa-eye');
    }
});
/* --- Request Reset Form --- */
$ (document).on('submit', '#reset-form', function (e) {
    e.preventDefault();
    $('.alert-warning').css({display: 'none'});
    if($('#reset-form').valid()) {
        $('#reset-button').attr('disabled', true);
        const form data = new FormData($('#reset-form')[0]);
        const form = Object.fromEntries(form data.entries());
        $.ajax({
            type: 'POST',
            url: '/request-reset',
            data: JSON.stringify(form),
            contentType: 'application/json',
            success: function (response) {
                if(response['status'] === 'Exist') {
                    $('.alert-success').css({display: 'block'});
                }
                else {
                    $('#reset-button').removeAttr('disabled');
                    $('.alert-warning').eq(0).css({display: 'block'});
            },
            error: function () {
                alert('ERROR');
            },
        });
   }
});
/* Hide Warning Message On Focus */
$(document).on('focus', '#e-mail', function (){
    $('.alert-warning').css({display: 'none'});
});
/* --- Password Validation Container --- */
$(document).on('focus', '#Password', function () {
    $('.password-validation-container').css({visibility: 'visible'});
});
$(document).on('focusout', '#Password', function (){
    $('.password-validation-container').css({visibility: 'hidden'});
/* ---- Password On-type Validate --- */
$ (document) . ready (function() {
    $(document).on('paste', '#Password', function (e){
        e.preventDefault();
```

```
});
    $(document).on('paste', '#Confirm', function (e){
        e.preventDefault();
    $(document).on('keyup', '#Password', function (){
        const password = $('#Password').val();
        // Upper-case validate
        if (password.match('(?=.*[A-Z])')) {
            $('.upper').addClass('list-active');
        else {
            $('.upper').removeClass('list-active');
        // Lower-case validate
        if(password.match('(?=.*[a-z])')) {
            $('.lower').addClass('list-active');
        else {
            $('.lower').removeClass('list-active');
        }
        // Numeric value validate
        if(password.match('(?=.*[0-9])')) {
            $('.digit').addClass('list-active');
        else {
            $('.digit').removeClass('list-active');
        // Special character validate
        if (password.match('(?=.*[!@.])')) {
            $('.special').addClass('list-active');
        else {
            $('.special').removeClass('list-active');
        // Length validate
        if(password.length >= 8 && password.length <= 24) {</pre>
            $('.length').addClass('list-active');
        else {
            $('.length').removeClass('list-active');
        // Password validate container hide (or) show
if(password.match('(?=^.{8,}$)(?=.*|d)(?=.*[!0.]+)(?![.\n])(?=.*[A-
Z])(?=.*[a-z])'))
            $('.password-validation-container').hide();
        else {
            $('.password-validation-container').show();
        }
        if(password.length === 24) {
            $('#Password').attr('readonly', true);
        }
    // For Stopping if character exceeds more than 24 characters
    $(document).on('click', '#Password', function (){
        if($('#Password').attr('readonly') && $('#Password').val().length
=== 24) {
            $('#Password').removeAttr('readonly');
```

```
// If password length equal to 24 only backspace works
        $ (document).on('keydown', '#Password', function (e) {
            if(e.which !== 8 && $('#Password').val().length === 24){
                $('#Password').attr('readonly', true);
        });
    });
});
/* --- Password Reset Form ---*/
$ (document).on('submit', '#PasswordResetForm', function (e) {
    e.preventDefault();
    $.validator.addMethod('strong',
        function () {
        return /(?=.*[a-z])(?=.*[A-Z])(?=.*[0-9])(?=.*[^A-Za-z0-
91) / .test(value)
        }, 'Password must contain mentioned below.')
    $('#PasswordResetForm').validate({
        focusCleanup: true,
        focusInvalid: false,
        ignore: '.ignore',
        debug: true,
        rules: {
            password: {
                required: true,
                strong: true,
                minlength: 8,
            confirm password: {
                required: true,
                equalTo: '#Password',
            },
        },
        errorPlacement: function (error, element) {
            const ele = $(element).attr('id');
            error.insertAfter('#'+ele+'Validate');
        },
        messages: {
            password: {
                minlength: 'Password must contain at least 8 characters',
            },
            confirm: {
                equalTo: 'Confirm Password doesn\'t match Password',
            },
        },
    });
    $('#PasswordResetForm').validate();
    if($('#PasswordResetForm').valid()){
        $('#Reset-Pwd-Btn').hide();
        $('#spinner-button').show();
        const form data = new FormData($('#PasswordResetForm')[0]);
        const form = Object.fromEntries(form data.entries());
        $.ajax({
            type: 'POST',
            url: 'url for(password reset)',
            data: JSON.stringify(form),
```

```
contentType: 'application/json',
            success: function (response) {
                $('#Reset-Pwd-Btn').show();
                $('#spinner-button').hide();
                if(response['status'] === 'PasswordUpdated') {
                    $('.Password-reset-
container').eq(0).addClass('inactive');
                    $('.Password-reset-
container').eq(1).removeClass('inactive');
            },
            error: function () {
                $('#Reset-Pwd-Btn').show();
                $('#spinner-button').hide();
                alert('Something went wrong. Try again later.');
                window.location.href = '/'
            },
       });
    }
});
$(document).on('click', '#Login-As', function () {
    const loginAs = $(this).attr('data-type');
    $('#login-button').attr('data-userinfo', loginAs);
});
$(document).on('click', '#Register-As', function () {
    const regAs = $(this).attr('data-register-as');
    if (regAs === 'Donor') {
        window.location.href = '/register-as-donor';
    else {
        window.location.href = '/register-as-org';
    }
});
```

OUTPUT:



IBM PLASMA DONOR APPLICATION

Let's not wait for a long time in search for a Plasma Donor. Here is the solution. We help by connecting you with all the donors available near you. You could raise a request for Plasma Requirement. Every Donor will undergo COVID-19 Test before donation.

Need for Plasma Donation: Why?

The Plasma Therapy is an approach to treat the COVID-positive patients and help them to recover. Plasma Therapy is considered to be safe and promising. A person who has recovered from COVID-19 can donate his/her plasma to a person, who is infected by corona virus.



