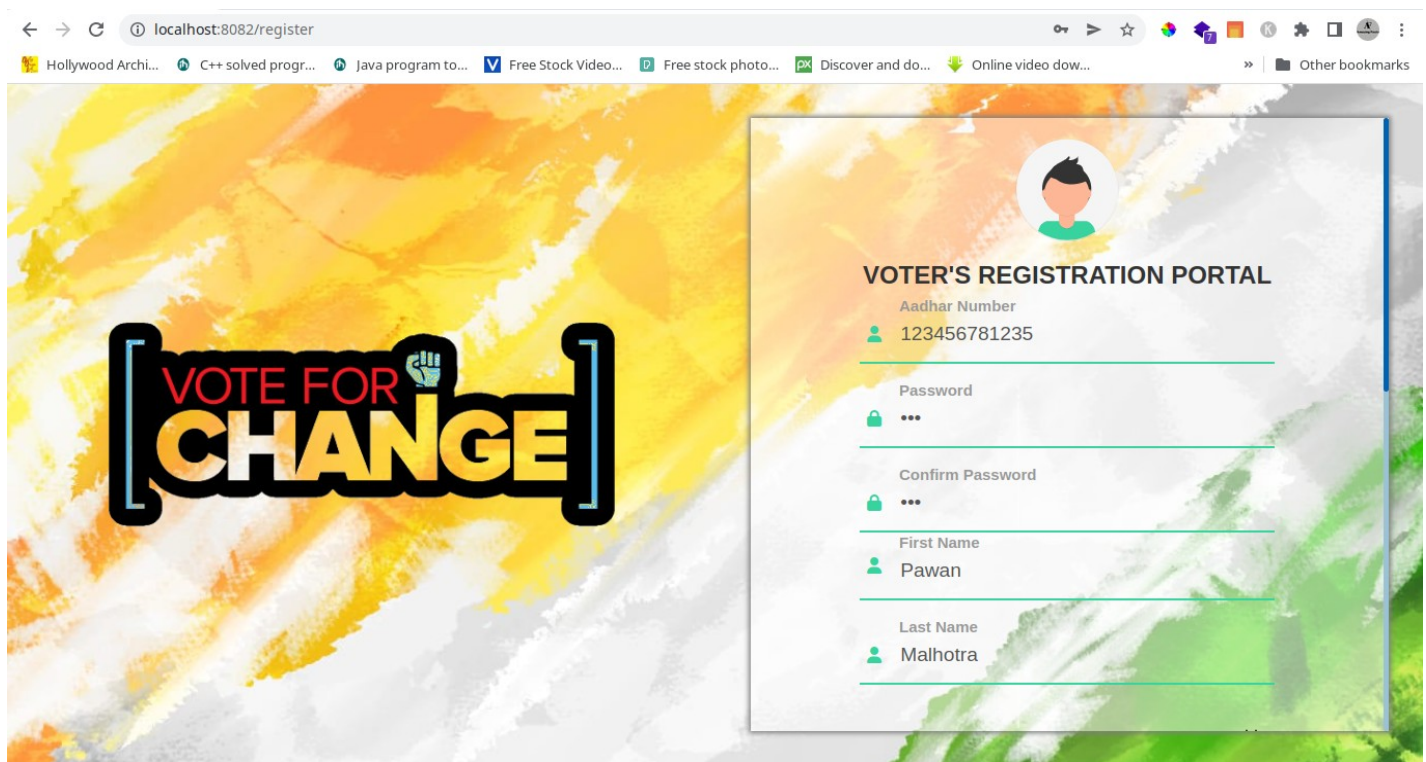


Team 33

E-Voting System

1. Registration Page



> Front-End
register.html [Code] :

```
<!DOCTYPE html>
<html lang="en" xmlns:th="http://www.thymeleaf.org">

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Register</title>
  <link rel="stylesheet" href="/css/login.css" th:href="@{/css/login.css}">
</head>

<body>
  <div class="container">
```

```
<div class="logo-image">
  
</div>
<div class="form-field">
  <main id="main-holder">
    <div id="login-error-msg-holder" style="margin-top: 20px;" th:if="{param.error}">
      <p id="login-error-msg" th:text="{param.message}"></p>
    </div>

    <div class="login-content" style="margin-top: 20px;">
      <form th:action="@{/register}" th:object="{registerDTO}" method="post">
        
        <h2 class="title" style="font-size: 1.5em;">Voter's Registration Portal</h2>
        <div class="input-div one">
          <div class="i">
            <i class="fas fa-user"></i>
          </div>
          <div class="div">
            <h5>Aadhar Number</h5>
            <input type="text" class="input" name="userId" required>
          </div>
        </div>
        <div class="input-div pass">
          <div class="i">
            <i class="fas fa-lock"></i>
          </div>
          <div class="div">
            <h5>Password</h5>
            <input type="password" class="input" name="password" required>
          </div>
        </div>

        <div class="input-div pass">
          <div class="i">
            <i class="fas fa-lock"></i>
          </div>
          <div class="div">
            <h5>Confirm Password</h5>
            <input type="password" class="input" name="confirmPassword" required>
          </div>
        </div>

        <div class="input-div one">
          <div class="i">
            <i class="fas fa-user"></i>
          </div>
          <div class="div" style="margin-top: 5px;">
            <h5>First Name</h5>
```

```

        <input type="text" class="input" name="firstName" required>
    </div>
</div>
<div class="input-div one">
    <div class="i">
        <i class="fas fa-user"></i>
    </div>
    <div class="div">
        <h5>Last Name</h5>
        <input type="text" class="input" name="lastName">
    </div>
</div>

<div class="input-div one">
    <div class="i">
        <i class="fa fa-birthday-cake"></i>
    </div>
    <div class="div">
        <h5>DOB</h5>
        <input type="date" class="input" id="date-input" required name="dob">
    </div>
</div>

<div class="input-div one">
    <div class="i">
        <i class="fa fa-venus-mars"></i>
    </div>
    <div class="div">
        <h5>Gender</h5>
        <select class="" name="gender" required>
            <option selected value="" disabled>Select Gender</option>
            <option value="Male">Male</option>
            <option value="Female">Female</option>
            <option value="Others">Others</option>
        </select>
    </div>
</div>

<div class="input-div one">
    <div class="i">
        <i class="fas fa-dharmachakra"></i>
    </div>
    <div class="div">
        <h5>Religion</h5>
        <select class="" name="religion" required>
            <option selected value="" disabled>Select Religion</option>
            <option value="Hindu">Hindu</option>
            <option value="Muslims">Muslims</option>
        </select>
    </div>
</div>

```

```

        <option value="Christians">Christians</option>
        <option value="Sikhs">Sikhs</option>
        <option value="Jains">Jains</option>
        <option value="Buddhists">Buddhists</option>
        <option value="Others">Others</option>
    </select>
</div>
</div>

```

```

<div class="input-div one">
    <div class="i">
        <i class="fas fa-dharmachakra"></i>
    </div>
    <div class="div">
        <h5>Caste</h5>
        <select class="" name="caste" required>
            <option selected value="" disabled>Select Caste</option>
            <option value="SC/ST">SC/ST</option>
            <option value="OBC">OBC</option>
            <option value="General">General</option>
            <option value="Others">Others</option>
        </select>
    </div>
</div>

```

```

<div class="input-div one">
    <div class="i">
        <i class="fa fa-home"></i>
    </div>
    <div class="div">
        <h5>Address</h5>
        <input type="text" class="input" name="address" required>
    </div>
</div>

```

```

<div class="input-div one">
    <div class="i">
        <i class="fa-solid fa-tree-city"></i>
    </div>
    <div class="div">
        <h5>State</h5>
        <select onchange="print_city('state', this.selectedIndex);" id="sts" name="state"
required>
            </select>
    </div>
</div>

```

```

<div class="input-div one">

```

```

        <div class="i">
            <i class="fa-solid fa-tree-city"></i>
        </div>
        <div class="div">
            <h5>city</h5>
            <select class="" id ="state" name="city" required>
            </select>

        </div>
    </div>

    <div class="input-div one">
        <div class="i">
            <i class="fa fa-phone"></i>
        </div>
        <div class="div">
            <h5>Phone No</h5>
            <input type="text" class="input" name="phoneNo" required>
        </div>
    </div>
    <a href="#"></a>
    <input type="submit" class="btn" value="Register">
</form>
</div>
    <span style="margin-bottom: 20px;">Already have an account? <a class="linkControl"
href="/login.html" th:href="@{/login}" style="display: inline; color: #6666CA; font-weight: bolder;">Login
Here</a></span>
    </main>
</div>
</div>
<script src="https://kit.fontawesome.com/902e5a7c60.js" crossorigin="anonymous"></script>
<script th:src="@{/js/login.js}" src="/js/login.js"></script>
<script th:src="@{/js/cities.js}" src="/js/cities.js"></script>
<script language="javascript">print_state("sts");</script>
</body>

</html>

```

register.css [code] :

```

@import url("https://use.fontawesome.com/releases/v5.13.0/css/all.css");
* {
    padding: 0;
    margin: 0;
    box-sizing: border-box;
}

```

```
html {  
  height: 100%;  
}  
  
body {  
  height: 100%;  
  margin: 0;  
  font-family: Arial, Helvetica, sans-serif;  
  display: grid;  
  justify-items: center;  
  align-items: center;  
  background-image: url('/images/login-bg.jpeg');  
  background-repeat: no-repeat;  
  background-size: cover;  
}  
  
#main-holder {  
  width: 90%;  
  height: 90%;  
  display: grid;  
  justify-items: center;  
  align-items: center;  
  background: rgba(255, 255, 255, 0.5);  
  box-shadow: 0px 0px 5px 2px gray;  
  overflow-y: hidden;  
  overflow: auto;  
}  
  
#main-holder::-webkit-scrollbar {  
  width: 5px;  
}  
  
#main-holder::-webkit-scrollbar-track {  
  border-radius: 10px;  
  background-image: linear-gradient(#9CC3D5FF, #9CC3D5FF);  
}  
  
#main-holder::-webkit-scrollbar-thumb {  
  border-radius: 10px;  
  background-image: linear-gradient(#0063B2FF, #0063B2FF);  
}  
  
#login-error-msg-holder {  
  width: 100%;  
  height: 100%;  
  display: grid;  
  justify-items: center;  
  align-items: center;
```

```
}

#login-error-msg {
  width: 80%;
  text-align: center;
  margin: 0;
  padding: 5px;
  font-size: 12px;
  font-weight: bold;
  color: #8a0000;
  border: 1px solid #8a0000;
  background-color: #e58f8f;
  opacity: 1;
}

#error-msg-second-line {
  display: block;
}

.container {
  width: 100%;
  height: 100vh;
  display: flex;
  justify-content: center;
  align-items: center;
}

.container .logo-image {
  width: 100%;
  height: 100%;
  justify-content: center;
  display: flex;
  align-items: center;
}

.container .form-field {
  width: 100%;
  height: 100%;
  justify-content: center;
  display: flex;
  align-items: center;
}

#login-header {
  z-index: 5;
}

.logo-image img {
```

```
width: 600px;
height: 600px;
}

.login-content {
  display: flex;
  justify-content: flex-start;
  align-items: center;
  text-align: center;
}

.img img {
  width: 500px;
}

form {
  width: 400px;
}

.login-content img {
  height: 100px;
}

.login-content h2 {
  margin: 15px 0;
  color: #333;
  text-transform: uppercase;
  font-size: 2.5rem;
}

.login-content .input-div {
  position: relative;
  display: grid;
  grid-template-columns: 7% 93%;
  margin: 25px 0;
  padding: 5px 0;
  border-bottom: 2px solid #d9d9d9;
}

.login-content .input-div.one {
  margin-top: 0;
}

.i {
  color: #d9d9d9;
  display: flex;
  justify-content: center;
  align-items: center;
```



```
}

.i i {
  transition: .3s;
}

.input-div>div {
  position: relative;
  height: 45px;
}

.input-div>div>h5 {
  position: absolute;
  left: 10px;
  top: 50%;
  transform: translateY(-50%);
  color: #999;
  font-size: 18px;
  transition: .3s;
}

.input-div:before,
.input-div:after {
  content: "";
  position: absolute;
  bottom: -2px;
  width: 0%;
  height: 2px;
  background-color: #38d39f;
  transition: .4s;
}

.input-div:before {
  right: 50%;
}

.input-div:after {
  left: 50%;
}

.input-div.focus:before,
.input-div.focus:after {
  width: 50%;
}

.input-div.focus>div>h5 {
  top: -5px;
  font-size: 15px;
}
```

```
}

.input-div.focus>.i>i {
  color: #38d39f;
}

.input-div>div>input {
  position: absolute;
  left: 0;
  top: 0;
  width: 100%;
  height: 100%;
  border: none;
  outline: none;
  background: none;
  padding: 0.5rem 0.7rem;
  font-size: 1.2rem;
  color: #555;
  font-family: 'poppins', sans-serif;
}

.input-div.pass {
  margin-bottom: 4px;
}

.input-div .bg-width {
  height: 70px;
}

a {
  display: block;
  text-align: right;
  text-decoration: none;
  color: #999;
  font-size: 0.9rem;
  transition: .3s;
}

a:hover {
  color: #38d39f;
}

.btn {
  display: block;
  width: 100%;
  height: 50px;
  border-radius: 25px;
  outline: none;
```

```

border: none;
background-image: linear-gradient(to right, #32be8f, #38d39f, #32be8f);
background-size: 200%;
font-size: 1.2rem;
color: #fff;
font-family: 'Poppins', sans-serif;
text-transform: uppercase;
margin: 1rem 0;
cursor: pointer;
transition: .5s;
}

.btn:hover {
  background-position: right;
}

/* css for removing date format in input type date */

input[type="date"]::-webkit-input-placeholder { /* Chrome/Opera/Safari */
  color: white;
}

input[type="date"]::-moz-placeholder { /* Firefox 19+ */
  color: white;
}

input[type="date"]:-ms-input-placeholder { /* IE 10+ */
  color: white;
}

input[type="date"]:-moz-placeholder { /* Firefox 18- */
  color: white;
}

input[type=date]:required:invalid::-webkit-datetime-edit {
  color: transparent;
}

input[type=date]:focus::-webkit-datetime-edit {
  color: black !important;
}

```

```

}

/* css for hiding the increment/decrement bar from input type number */
/* Chrome, Safari, Edge, Opera */
input::-webkit-outer-spin-button,
input::-webkit-inner-spin-button {
  -webkit-appearance: none;
  margin: 0;
}

/* Firefox */
input[type=number] {
  -moz-appearance: textfield;
}

.radio-btn {
  margin-right: 5px;
}

select{
  width: 80%;
  border: 1px solid #ddd;
  border-radius: 3px;
  outline: 0;
  padding: 7px;
  background-color: transparent;
  /* box-shadow: inset 1px 1px 5px rgba(0,0,0,0.3) ; */
  margin-left: 80px;
  margin-top: 10px;
  color: #555;
}

```

register.js [code] :

```

const inputs = document.querySelectorAll(".input");

function addcl(){
  let parent = this.parentNode.parentNode;
  parent.classList.add("focus");
}

function remcl(){
  let parent = this.parentNode.parentNode;
  if(this.value == ""){
    parent.classList.remove("focus");
  }
}

```

```
inputs.forEach(input => {  
    input.addEventListener("focus", addcl);  
    input.addEventListener("blur", remcl);  
});
```

```
var state_arr = new Array("Andaman & Nicobar", "Andhra Pradesh", "Arunachal Pradesh", "Assam", "Bihar",  
"Chandigarh", "Chhattisgarh", "Dadra & Nagar Haveli", "Daman & Diu", "Delhi", "Goa", "Gujarat",  
"Haryana", "Himachal Pradesh", "Jammu & Kashmir", "Jharkhand", "Karnataka", "Kerala", "Lakshadweep",  
"Madhya Pradesh", "Maharashtra", "Manipur", "Meghalaya", "Mizoram", "Nagaland", "Orissa",  
"Pondicherry", "Punjab", "Rajasthan", "Sikkim", "Tamil Nadu", "Tripura", "Uttar Pradesh", "Uttaranchal",  
"West Bengal");
```

```
var s_a = new Array();
```

```
s_a[0]="";
```

```
s_a[1]=" Alipur | Andaman Island | Anderson Island | Arainj-Laka-Punga | Austinabad | Bamboo Flat |  
Barren Island | Beadonabad | Betapur | Bindraban | Bonington | Brookesabad | Cadell Point | Calicut |  
Chetamale | Cinque Islands | Defence Island | Digilpur | Dolyganj | Flat Island | Geinyale | Great Coco  
Island | Haddo | Havelock Island | Henry Lawrence Island | Herbertabad | Hobdaypur | Ilichar | Ingoie |  
Inteviu Island | Jangli Ghat | Jhon Lawrence Island | Karen | Kartara | KYD Islannd | Landfall Island |  
Little Andmand | Little Coco Island | Long Island | Maimyo | Malappuram | Manglutan | Manpur | Mitha  
Khari | Neill Island | Nicobar Island | North Brother Island | North Passage Island | North Sentinel Island  
| Nothen Reef Island | Outram Island | Pahlagaon | Palalankwe | Passage Island | Phaiapong | Phoenix  
Island | Port Blair | Preparis Island | Protheroeapur | Rangachang | Rongat | Rutland Island | Sabari |  
Saddle Peak | Shadipur | Smith Island | Sound Island | South Sentinel Island | Spike Island | Tarmugli  
Island | Taylerabad | Titaije | Toibalawe | Tusonabad | West Island | Wimberleyganj | Yadita";
```

```
s_a[2]=" Achampet | Adilabad | Adoni | Alampur | Allagadda | Alur | Amalapuram | Amangallu |  
Anakapalle | Anantapur | Andole | Araku | Armoor | Asifabad | Aswaraopet | Atmakur | B. Kothakota |  
Badvel | Banaganapalle | Bandar | Bangarupalem | Banswada | Bapatla | Bellampalli | Bhadrachalam |  
Bhainsa | Bheemunipatnam | Bhimadole | Bhimavaram | Bhongir | Bhooragamphad | Boath | Bobbili |  
Bodhan | Chandoor | Chavitidibbalu | Chejerla | Chepurupalli | Cherial | Chevella | Chinnor |  
Chintalapudi | Chintapalle | Chirala | Chittoor | Chodavaram | Cuddapah | Cumbum | Darsi |  
Devarakonda | Dharmavaram | Dichpalli | Divi | Donakonda | Dronachalam | East Godavari | Eluru |  
Eturnagaram | Gadwal | Gajapathinagaram | Gajwel | Garladinne | Giddalur | Godavari | Gooty |  
Gudivada | Gudur | Guntur | Hindupur | Hunsabad | Huzurabad | Huzurnagar | Hyderabad |  
Ibrahimpattam | Jaggayyapet | Jagtial | Jammalamadugu | Jangaon | Jangareddygudem | Jannaram |  
Kadiri | Kaikaluru | Kakinada | Kalwakurthy | Kalyandurg | Kamalapuram | Kamareddy | Kambadur |  
Kanaganapalle | Kandukuru | Kanigiri | Karimnagar | Kavali | Khammam | Khanapur (AP) | Kodangal |  
Koduru | Koilkuntla | Kollapur | Kothagudem | Kovvur | Krishna | Krosuru | Kuppam | Kurnool |  
Lakkireddipalli | Madakasira | Madanapalli | Madhira | Madnur | Mahabubabad | Mahabubnagar |  
Mahadevapuri | Makthal | Mancheri | Mandapeta | Mangalagiri | Manthani | Markapur | Marturu |  
Medachal | Medak | Medarmetla | Metpalli | Mriyalguda | Mulug | Mylavaram | Nagarkurnool |  
Nalgonda | Nallacheruvu | Nampalle | Nandigama | Nandikotkur | Nandyal | Narasampet |  
Narasaraopet | Narayanakhed | Narayanpet | Narsapur | Narsipattam | Nazvidu | Nelloe | Nellore |  
Nidamanur | Nirmal | Nizamabad | Nuguru | Ongole | Outsarangapalle | Paderu | Pakala | Palakonda |  
Paland | Palmaneru | Pamuru | Pargi | Parkal | Parvathipuram | Pathapatnam | Pattikonda | Peapalle |  
Peddapalli | Peddapuram | Penukonda | Piduguralla | Piler | Pithapuram | Podili | Polavaram |
```

Prakasam | Proddatur | Pulivendla | Punganur | Putturu | Rajahmundry | Rajampeta |
Ramachandrapuram | Ramannapet | Rampachodavaram | Rangareddy | Rapur | Rayachoti | Rayadurg |
Razole | Repalle | Saluru | Sangareddy | Sathupalli | Sattenapalle | Satyavedu | Shadnagar |
Siddavattam | Siddipet | Sileru | Sircilla | Sirpur Kagaznagar | Sodam | Sompeta | Srikakulam |
Srikalahasthi | Srisailem | Srungavarapukota | Sudhimalla | Sullarpet | Tadepalligudem | Tadipatri |
Tanduru | Tanuku | Tekkali | Tenali | Thungathurthy | Tirivuru | Tirupathi | Tuni | Udaygiri | Ulvapadu |
Uravakonda | Utnor | V.R. Puram | Vainpalli | Vayalpad | Venkatgiri | Venkatgirikota | Vijayawada |
Vikrabad | Vinjamuru | Vinukonda | Visakhapatnam | Vizayanagaram | Vizianagaram | Vuyyuru |
Wanaparthy | Warangal | Wardhannapet | Yelamanchili | Yelavaram | Yeleswaram | Yellandu | Yellanuru
| Yellareddy | Yerragondapalem | Zahirabad ";

s_a[3]=" Along | Anini | Anjaw | Bameng | Basar | Changlang | Chowkhem | Daporizo | Dibang Valley |
Dirang | Hayuliang | Huri | Itanagar | Jairampur | Kalaktung | Kameng | Khonsa | Kolaring | Kurung
Kumey | Lohit | Lower Dibang Valley | Lower Subansiri | Mariyang | Mechuka | Miao | Nefra |
Pakkekesang | Pangin | Papum Pare | Passighat | Roing | Sagalee | Seppa | Siang | Tali | Taliha |
Tawang | Tezu | Tirap | Tuting | Upper Siang | Upper Subansiri | Yiang Kiang ";

s_a[4]=" Abhayapuri | Baithalangshu | Barama | Barpeta Road | Bihupuria | Bijni | Bilasipara | Bokajan |
Bokakhat | Boko | Bongaigaon | Cachar | Cachar Hills | Darrang | Dhakuakhana | Dhemaaji | Dhubri |
Dibrugarh | Digboi | Diphu | Goalpara | Gohpur | Golaghat | Guwahati | Hailakandi | Hajo | Halflong |
Hojai | Howraghat | Jorhat | Kamrup | Karbi Anglong | Karimganj | Kokarajhar | Kokrajhar | Lakhimpur
| Maibong | Majuli | Mangaldoi | Mariani | Marigaon | Moranhat | Morigaon | Nagaon | Nalbari |
Rangapara | Sadiya | Sibsagar | Silchar | Sivasagar | Sonitpur | Tarabarihat | Tezpur | Tinsukia | Udalgiri
| Udalguri | UdarbondhBarpeta";

s_a[5]=" Adhaura | Amarpur | Araria | Areraj | Arrah | Arwal | Aurangabad | Bagaha | Banka |
Banmankhi | Barachakia | Barauni | Barh | Barosi | Begusarai | Benipatti | Benipur | Bettiah | Bhabhua
| Bhagalpur | Bhojpur | Bidupur | Biharsharif | Bikram | Bikramganj | Birpur | Buxar | Chakai |
Champaran | Chapara | Dalsinghsarai | Danapur | Darbhanga | Daudnagar | Dhaka | Dhamdaha |
Dumraon | Ekma | Forbesganj | Gaya | Gogri | Gopalganj | H.Kharagpur | Hajipur | Hathua | Hilsa |
Imamganj | Jahanabad | Jainagar | Jamshedpur | Jamui | Jehanabad | Jhajha | Jhanjharpur | Kahalgao |
Kaimur (Bhabua) | Katihar | Katoria | Khagaria | Kishanganj | Korha | Lakhisarai | Madhepura |
Madhubani | Maharajganj | Mahua | Mairwa | Mallehpur | Masrakh | Mohania | Monghyr | Motihari |
Motipur | Munger | Muzaffarpur | Nabinagar | Nalanda | Narkatiaganj | Naugachia | Nawada |
Pakribarwan | Pakridayal | Patna | Phulparas | Piro | Pupri | Purena | Purnia | Rafiganj | Rajauli |
Ramnagar | Raniganj | Raxaul | Rohtas | Rosera | S.Bakhtiarpur | Saharsa | Samastipur | Saran |
Sasaram | Seikhpura | Sheikhpura | Sheohar | Sherghati | Sidhawal | Singhwara | Sitamarhi | Siwan |
Sonepur | Supaul | Thakurganj | Triveniganj | Udakishanganj | Vaishali | Wazirganj";

s_a[6]=" Chandigarh | Mani Marja";

s_a[7]=" Ambikapur | Antagarh | Arang | Bacheli | Bagbahera | Bagicha | Baikunthpur | Balod |
Balodabazar | Balrampur | Barpalli | Basana | Bastanar | Bastar | Bderajpur | Bemetara | Berla |
Bhairongarh | Bhanupratappur | Bharathpur | Bhatapara | Bhilai | Bhilaigarh | Bhopalpatnam | Bijapur
| Bilaspur | Bodla | Bokaband | Chandipara | Chhinagarh | Chhuriakala | Chingmut | Chuikhadan |
Dabhara | Dallirajhara | Dantewada | Deobhog | Dhamda | Dhamtari | Dharamjaigarh | Dongargarh |
Durg | Durgakondal | Fingeshwar | Gariaband | Garpa | Gharghoda | Gogunda | Ilamidi | Jagdalpur |
Janjgir | Janjgir-Champa | Jarwa | Jashpur | Jashpurnagar | Kabirdham-Kawardha | Kanker | Kasdol |
Kathdol | Kathghora | Kawardha | Keskal | Khairgarh | Kondagaon | Konta | Korba | Korea | Kota |
Koyelibeda | Kuakunda | Kunkuri | Kurud | Lohadigundah | Lormi | Luckwada | Mahasamund | Makodi
| Manendragarh | Manpur | Marwahi | Mohla | Mungeli | Nagri | Narainpur | Narayanpur | Neora |
Netanar | Odgi | Padamkot | Pakhanjur | Pali | Pandaria | Pandishankar | Parasgaon | Pasan | Patan |
Pathalgaon | Pendra | Pratappur | Premnagar | Raigarh | Raipur | Rajnandgaon | Rajpur |
Ramchandrapur | Saraipali | Saranggarh | Sarona | Semaria | Shakti | Sitapur | Sukma | Surajpur |

Surguja | Tapkara | Toynar | Udaipur | Uproda | Wadrainagar";
s_a[8]=" Amal | Amlī | Bedpa | Chikhli | Dadra & Nagar Haveli | Dahikhed | Dolara | Galonda | Kanadi | Karchond | Khadoli | Kharadpada | Kherabari | Kherdi | Kothar | Luari | Mashat | Rakholi | Rudana | Saili | Sili | Silvassa | Sindavni | Udva | Umbarkoi | Vansda | Vasona | Velugam";
s_a[9]=" Brancavare | Dagasi | Daman | Diu | Magarvara | Nagwa | Pariali | Passo Covo";
s_a[10]=" Central Delhi | East Delhi | New Delhi | North Delhi | North East Delhi | North West Delhi | South Delhi | South West Delhi | West Delhi";
s_a[11]=" Canacona | Candolim | Chinchinim | Cortalim | Goa | Jua | Madgaon | Mahem | Mapuca | Marmagao | Panji | Ponda | Sanvordem | Terekhol";
s_a[12]=" Ahmedabad | Ahwa | Amod | Amreli | Anand | Anjar | Ankaleshwar | Babra | Balasinor | Banaskantha | Bansada | Bardoli | Bareja | Baroda | Barwala | Bayad | Bhachav | Bhanvad | Bharuch | Bhavnagar | Bhiloda | Bhuj | Billimora | Borsad | Botad | Chanasma | Chhota Udaipur | Chotila | Dabhoi | Dahod | Damnagar | Dang | Danta | Dasada | Dediapada | Deesa | Dehgam | Deodar | Devgadhbharia | Dhandhuka | Dhanera | Dharampur | Dhari | Dholka | Dhoraji | Dhrangadhra | Dhrol | Dwarka | Fortsongadh | Gadhada | Gandhi Nagar | Gariadhar | Godhra | Gogodar | Gondal | Halol | Halvad | Harij | Himatnagar | Idar | Jambusar | Jamjodhpur | Jamkalyanpur | Jamnagar | Jasdan | Jetpur | Jhagadia | Jhalod | Jodia | Junagadh | Junagarh | Kalawad | Kalol | Kapad Wanj | Keshod | Khambhat | Khambhalia | Khavda | Kheda | Khedbrahma | Kheralu | Kodinar | Kotdasanghani | Kunkawav | Kutch | Kutchmandvi | Kutiyana | Lakhpāt | Lakhtar | Lalpur | Limbdi | Limkheda | Lunavada | M.M.Mangrol | Mahuva | Malia-Hatina | Maliya | Malpur | Manavadar | Mandvi | Mangrol | Mehmedabad | Mehsana | Miyagam | Modasa | Morvi | Muli | Mundra | Nadiad | Nakhatrana | Nalia | Narmada | Naswadi | Navasari | Nizar | Okha | Paddhari | Padra | Palanpur | Palitana | Panchmahals | Patan | Pavijetpur | Porbandar | Prantij | Radhanpur | Rahpar | Rajaula | Rajkot | Rajpipla | Ranavav | Sabarkantha | Sanand | Sankheda | Santalpur | Santrampur | Savarkundla | Savli | Sayan | Sayla | Shehra | Sidhpur | Sihor | Sojitra | Sumrasar | Surat | Surendranagar | Talaja | Thara | Tharad | Thasra | Una-Diu | Upleta | Vadgam | Vadodara | Valia | Vallabhipur | Valod | Valsad | Vanthali | Vapi | Vav | Veraval | Vijapur | Viramgam | Visavadar | Visnagar | Vyara | Waghodia | Wankaner";
s_a[13]=" Adampur Mandi | Ambala | Assandh | Bahadurgarh | Barara | Barwala | Bawal | Bawanikhara | Bhiwani | Charkhidari | Cheeka | Chhachrauli | Dabwali | Ellenabad | Faridabad | Fatehabad | Ferojpur Jhirka | Gharaunda | Gohana | Gurgaon | Hansi | Hisar | Jagadhari | Jatusana | Jhajjar | Jind | Julana | Kaithal | Kalanaur | Kalanwali | Kalka | Karnal | Kosli | Kurukshetra | Loharu | Mahendragarh | Meham | Mewat | Mohindergarh | Naraingarh | Narnaul | Narwana | Nilokheri | Nuh | Palwal | Panchkula | Panipat | Pehowa | Ratia | Rewari | Rohtak | Safidon | Sirsa | Siwani | Sonipat | Tohana | Tohsam | Yamunanagar";
s_a[14]=" Amb | Arki | Banjar | Bharmour | Bilaspur | Chamba | Churah | Dalhousie | Dehra Gopipur | Hamirpur | Jogindernagar | Kalpa | Kangra | Kinnaur | Kullu | Lahaul | Mandi | Nahan | Nalagarh | Nirmand | Nurpur | Palampur | Pangi | Paonta | Pooh | Rajgarh | Rampur Bushahar | Rohru | Shimla | Sirmaur | Solan | Spiti | Sundernagar | Theog | Udaipur | Una";
s_a[15]=" Akhnoor | Anantnag | Badgam | Bandipur | Baramulla | Basholi | Bedarwah | Budgam | Doda | Gulmarg | Jammu | Kalakot | Kargil | Karnah | Kathua | Kishtwar | Kulgam | Kupwara | Leh | Mahore | Nagrota | Nobra | Nowshera | Nyoma | Padam | Pahalgam | Patnitop | Poonch | Pulwama | Rajouri | Ramban | Ramnagar | Reasi | Samba | Srinagar | Udhampur | Vaishno Devi";
s_a[16]=" Bagodar | Baharagora | Balumath | Barhi | Barkagaon | Barwadih | Basia | Bermo | Bhandaria | Bhawanathpur | Bishrampur | Bokaro | Bolwa | Bundu | Chaibasa | Chainpur | Chakardharpur | Chandil | Chatra | Chavparan | Daltonganj | Deoghar | Dhanbad | Dumka | Dumri | Garhwa | Garu | Ghaghra | Ghatsila | Giridih | Godda | Gomia | Govindpur | Gumla | Hazaribagh | Hunterganj | Ichak | Itki | Jagarnathpur | Jamshedpur | Jamtara | Japla | Jharmundi | Jhinkpani | Jhumaritalaiya | Kathikund | Kharsawa | Khunti | Koderma | Kalebira | Latehar | Lohardaga | Madhupur | Mahagama | Maheshpur Raj | Mandar | Mandu | Manoharpur | Muri | Nagarutatri | Nala | Noamundi | Pakur | Palamu | Palkot

| Patan | Rajdhanwar | Rajmahal | Ramgarh | Ranchi | Sahibganj | Saraikela | Simaria | Simdega | Singhbhum | Tisri | Torpa ";

s_a[17]=" Afzalpur | Ainapur | Aland | Alur | Anekal | Ankola | Arsikere | Athani | Aurad | Bableshtar | Badami | Bagalkot | Bagepalli | Bailhongal | Bangalore | Bangalore Rural | Bangarpet | Bantwal | Basavakalyan | Basavanabagevadi | Basavapatna | Belgaum | Bellary | Belthangady | Belur | Bhadravati | Bhalki | Bhatkal | Bidar | Bijapur | Biligi | Chadchan | Challakere | Chamrajnagar | Channagiri | Channapatna | Channarayapatna | Chickmagalur | Chikballapur | Chikkaballapur | Chikkanayakanahalli | Chikkodi | Chikmagalur | Chincholi | Chintamani | Chitradurga | Chittapur | Cowdahalli | Davanagere | Deodurga | Devangere | Devarahippargi | Dharwad | Doddaballapur | Gadag | Gangavathi | Gokak | Gowribdanpur | Gubbi | Gulbarga | Gundlupet | H.B.Halli | H.D. Kote | Haliyal | Hampi | Hangal | Harapanahalli | Hassan | Haveri | Hebri | Hirekerur | Hiriyur | Holalkere | Holenarsipur | Honnali | Honnavar | Hosadurga | Hosakote | Hosanagara | Hospet | Hubli | Hukkeri | Humnabad | Hungund | Hunsagi | Hunsur | Huvinahadagali | Indi | Jagalur | Jamkhandi | Jewargi | Joida | K.R. Nagar | Kadur | Kalghatagi | Kamalapur | Kanakapura | Kannada | Kargal | Karkala | Karwar | Khanapur | Kodagu | Kolar | Kollegal | Koppa | Koppal | Koratageri | Krishnarajapet | Kudligi | Kumta | Kundapur | Kundgol | Kunigal | Kurugodu | Kustagi | Lingsugur | Madikeri | Madugiri | Malavalli | Malur | Mandya | Mangalore | Manipal | Manvi | Mashal | Molkalmuru | Mudalgi | Muddebihal | Mudhol | Mudigere | Mulbagal | Mundagod | Mundargi | Murugod | Mysore | Nagamangala | Nanjangud | Nargund | Narsimrajapur | Navalgund | Nelamangala | Nimbarga | Pandavapura | Pavagada | Puttur | Raibag | Raichur | Ramdurg | Ranebennur | Ron | Sagar | Sakleshpur | Salkani | Sandur | Saundatti | Savanur | Sedam | Shahapur | Shankarnarayana | Shikaripura | Shimoga | Shirahatti | Shorapur | Siddapur | Sidlaghatta | Sindagi | Sindhanur | Sira | Sirsi | Siruguppa | Somwarpet | Sorab | Sringeri | Sriniwasapur | Srirangapatna | Sullia | T. Narsipur | Tallak | Tarikere | Telgi | Thirthahalli | Tiptur | Tumkur | Turuvekere | Udupi | Virajpet | Wadi | Yadgiri | Yelburga | Yellapur ";

s_a[18]=" Adimaly | Adoor | Agathy | Alappuzha | Alathur | Alleppey | Alwaye | Amini | Androth | Attingal | Badagara | Bitra | Calicut | Cannanore | Chetlet | Ernakulam | Idukki | Irinjalakuda | Kadamath | Kalpeni | Kalpetta | Kanhangad | Kanjirapally | Kannur | Karungapally | Kasargode | Kavarathy | Kiltan | Kochi | Koduvayur | Kollam | Kottayam | Kovalam | Kozhikode | Kunnamkulam | Malappuram | Mananthodi | Manjeri | Mannarghat | Mavelikkara | Minicoy | Munnar | Muvattupuzha | Nedumandad | Nedumgandam | Nilambur | Palai | Palakkad | Palghat | Pathaanamthitta | Pathanamthitta | Payyanur | Peermedu | Perinthalmanna | Perumbavoor | Punalur | Quilon | Ranni | Shertallai | Shoranur | Taliparamba | Tellicherry | Thiruvananthapuram | Thodupuzha | Thrissur | Tirur | Tiruvalla | Trichur | Trivandrum | Uppala | Vadakkanchery | Vikom | Wayanad ";

s_a[19]=" Agatti Island | Bingaram Island | Bitra Island | Chetlat Island | Kadmat Island | Kalpeni Island | Kavaratti Island | Kiltan Island | Lakshadweep Sea | Minicoy Island | North Island | South Island ";

s_a[20]=" Agar | Ajaigarh | Alirajpur | Amarpatan | Amarwada | Ambah | Anuppur | Arone | Ashoknagar | Ashta | Atner | Babaichichli | Badamalhera | Badarwasas | Badnagar | Badnawar | Badwani | Bagli | Baihar | Balaghat | Baldeogarh | Baldi | Bamori | Banda | Bandhavgarh | Bareli | Baroda | Barwaha | Barwani | Batkakhapa | Begamganj | Beohari | Berasia | Berchha | Betul | Bhainsdehi | Bhandar | Bhanpura | Bhikangaon | Bhimpur | Bhind | Bhitwar | Bhopal | Biaora | Bijadandi | Bijawar | Bijaypur | Bina | Birsa | Birsinghpur | Budhni | Burhanpur | Buxwaha | Chachaura | Chanderi | Chaurai | Chhapara | Chhatarpur | Chhindwara | Chicholi | Chitrangi | Churhat | Dabra | Damoh | Datia | Deori | Deosar | Depalpur | Dewas | Dhar | Dharampuri | Dindori | Gadarpura | Gairatganj | Ganjbasoda | Garoth | Ghansour | Ghatia | Ghatigaon | Ghorandogri | Ghughari | Gogaon | Gohad | Goharganj | Gopalganj | Gotegaon | Gouriha | Guna | Gunnore | Gwalior | Gyaspur | Hanumana | Harda | Harrai | Harsud | Hatta | Hoshangabad | Ichhawar | Indore | Isagarh | Itarsi | Jabalpur | Jabera | Jagdalpur | Jaisinghnagar | Jaithari | Jaitpur | Jaitwara | Jamai | Jaora | Jatara | Jawad | Jhabua | Jobat | Jora | Kakaiya | Kannod | Kannodi | Karanjia | Kareli | Karera | Karhal | Karpa | Kasrawad | Katangi | Katni |

Keolari | Khachrod | Khajuraho | Khakner | Khalwa | Khandwa | Khaniadhana | Khargone | Khategaon | Khetia | Khilchipur | Khirkiya | Khurai | Kolaras | Kotma | Kukshi | Kundam | Kurwai | Kusmi | Laher | Lakhnadon | Lamta | Lanji | Lateri | Laundi | Maheshwar | Mahidpurcity | Maihar | Majhagwan | Majholi | Malhargarh | Manasa | Manawar | Mandla | Mandsaur | Manpur | Mauganj | Mawai | Mehgaon | Mhow | Morena | Multai | Mungaoli | Nagod | Nainpur | Narsingarh | Narsinghpur | Narwar | Nasrullaganj | Nateran | Neemuch | Niwari | Niwas | Nowgaon | Pachmarhi | Pandhana | Pandhurna | Panna | Parasia | Patan | Patera | Patharia | Pawai | Petlawad | Pichhore | Piparia | Pohari | Prabhapattan | Punasa | Pushprajgarh | Raghogarh | Raghunathpur | Rahatgarh | Raisen | Rajgarh | Rajpur | Ratlam | Rehli | Rewa | Sabalgarh | Sagar | Sailana | Sanwer | Sarangpur | Sardarpur | Satna | Saunsar | Sehore | Sendhwa | Seondha | Seoni | Seonimalwa | Shahdol | Shahnagar | Shahpur | Shajapur | Sheopur | Sheopurkalan | Shivpuri | Shujalpur | Sidhi | Sihora | Silwani | Singrauli | Sirmour | Sironj | Sitamau | Sohagpur | Sondhwa | Sonkatch | Susner | Tamia | Tarana | Tendukheda | Teonthar | Thandla | Tikamgarh | Timarani | Udaipura | Ujjain | Umaria | Umariapan | Vidisha | Vijayraghagarh | Waraseoni | Zhirnia ";

s_a[21]=" Achalpur | Aheri | Ahmednagar | Ahmedpur | Ajara | Akkalkot | Akola | Akole | Akot | Alibagh | Amagaon | Amalner | Ambad | Ambejogai | Amravati | Arjuni Merogaon | Arvi | Ashti | Atpadi | Aurangabad | Ausa | Babhulgaon | Balapur | Baramati | Barshi Takli | Barsi | Basmatnagar | Bassein | Beed | Bhadrawati | Bhamregadh | Bhandara | Bhir | Bhiwandi | Bhiwapur | Bhokar | Bhokardan | Bhoom | Bhor | Bhudargad | Bhusawal | Billoli | Brahmapuri | Buldhana | Butibori | Chalisgaon | Chamorshi | Chandgad | Chandrapur | Chandur | Chanwad | Chhikaldara | Chikhali | Chinchwad | Chiplun | Chopda | Chumur | Dahanu | Dapoli | Darwaha | Daryapur | Daund | Degloor | Delhi Tanda | Deogad | Deolgaonraja | Deori | Desaiganj | Dhadgaon | Dhanora | Dharani | Dhiwadi | Dhule | Dhulia | Digras | Dindori | Edalabad | Erandul | Etapalli | Gadchiroli | Gadhinglaj | Gaganbavada | Gangakhed | Gangapur | Gevrai | Ghatanji | Golegaon | Gondia | Gondpipri | Goregaon | Guhagar | Hadgaon | Hatkangale | Hinganghat | Hingoli | Hingua | Igatpuri | Indapur | Islampur | Jalgaon | Jalna | Jamkhed | Jamner | Jath | Jawahar | Jintdor | Junnar | Kagal | Kaij | Kalamb | Kalamnuri | Kallam | Kalmeshwar | Kalwan | Kalyan | Kamptee | Kandhar | Kankavali | Kannad | Karad | Karjat | Karmala | Katol | Kavathemankal | Kedgaon | Khadakwasala | Khamgaon | Khed | Khopoli | Khultabad | Kinwat | Kolhapur | Kopargaon | Koregaon | Kudal | Kuhi | Kurkheda | Kusumba | Lakhandur | Langa | Latur | Lonar | Lonavala | Madangad | Madha | Mahabaleshwar | Mahad | Mahagaon | Mahasala | Mahaswad | Malegaon | Malgaon | Malgund | Malkapur | Malsuras | Malwan | Mancher | Mangalwedha | Mangaon | Mangrulpur | Manjalegaon | Manmad | Maregaon | Mehda | Mekhar | Mohadi | Mohol | Mokhada | Morshi | Mouda | Mukhed | Mul | Mumbai | Murbad | Murtizapur | Murud | Nagbhir | Nagpur | Nahavara | Nanded | Nandgaon | Nandnva | Nandurbar | Narkhed | Nashik | Navapur | Ner | Newasa | Nilanga | Niphad | Omerga | Osmanabad | Pachora | Paithan | Palghar | Pali | Pandharkawada | Pandharpur | Panhala | Paranda | Parbhani | Parner | Parola | Parseoni | Partur | Patan | Pathardi | Pathari | Patoda | Pauni | Peint | Pen | Phaltan | Pimpalner | Pirangut | Poladpur | Pune | Pusad | Pusegaon | Radhanagar | Rahuri | Raigad | Rajapur | Rajgurunagar | Rajura | Ralegaon | Ramtek | Ratnagiri | Raver | Risod | Roha | Sakarwadi | Sakoli | Sakri | Salekasa | Samudrapur | Sangamner | Sanganeshwar | Sangli | Sangola | Sanguem | Saoner | Saswad | Satana | Satara | Sawantwadi | Seloo | Shahada | Shahapur | Shahuwadi | Shevgaon | Shirala | Shirol | Shirpur | Shirur | Shirwal | Sholapur | Shri Rampur | Shrigonda | Shrivardhan | Sillod | Sinderwahi | Sindhudurg | Sindkheda | Sindkheldaraja | Sinnar | Sironcha | Soyegaon | Surgena | Talasari | Talegaon S.Ji Pant | Taloda | Tasgaon | Thane | Tirora | Tiwasa | Trimbak | Tuljapur | Tumsar | Udgir | Umarkhed | Umrane | Umrer | Urlikanchan | Vaduj | Velhe | Vengurla | Vijapur | Vita | Wada | Wai | Walchandnagar | Wani | Wardha | Warlydwarud | Warora | Washim | Wathar | Yavatmal | Yawal | Yeola | Yeotmal ";

s_a[22]=" Bishnupur | Chakpikarong | Chandel | Chattrik | Churachandpur | Imphal | Jiribam | Kakching | Kalapahar | Mao | Mulam | Parbung | Sadarhills | Saibom | Sempang | Senapati | Sochumer | Taloulong | Tamenglong | Thinghat | Thoubal | Ukhrul ";

s_a[23]=" Amlaren | Baghmara | Cherrapunjee | Dadengiri | Garo Hills | Jaintia Hills | Jowai | Khasi Hills | Khliehriat | Mariang | Mawkyrwat | Nongpoh | Nongstoin | Resubelpara | Ri Bhoi | Shillong | Tura | Williamnagar";

s_a[24]=" Aizawl | Champhai | Demagiri | Kolasib | Lawngtlai | Lunglei | Mamit | Saiha | Serchhip";

s_a[25]=" Dimapur | Jalukie | Kiphire | Kohima | Mokokchung | Mon | Phek | Tuensang | Wokha | Zunheboto ";

s_a[26]=" Anandapur | Angul | Anugul | Aska | Athgarh | Athmallik | Attabira | Bagdihi | Balangir | Balasore | Baleswar | Baliguda | Balugaon | Banaigarh | Bangiriposi | Barbil | Bargarh | Baripada | Barkot | Basta | Berhampur | Betanati | Bhadrak | Bhanjanagar | Bhawanipatna | Bhubaneswar | Birmaharajpur | Bisam Cuttack | Boriguma | Boudh | Buguda | Chandbali | Chhatrapur | Chhendipada | Cuttack | Daringbadi | Daspalla | Deodgarh | Deogarh | Dhanmandal | Dharamgarh | Dhenkanal | Digapahandi | Dunguripali | G. Udayagiri | Gajapati | Ganjam | Ghatgaon | Gudari | Gunupur | Hemgiri | Hindol | Jagatsinghapur | Jajpur | Jamankira | Jashipur | Jayapatna | Jeypur | Jharigan | Jharsuguda | Jujumura | Kalahandi | Kalimela | Kamakhyanagar | Kandhamal | Kantabhanji | Kantamal | Karanjia | Kshipur | Kendrapara | Kendujhar | Keonjhar | Khalikote | Khordha | Khurda | Komana | Koraput | Kotagarh | Kuchinda | Lahuni para | Laxmipur | M. Rampur | Malkangiri | Mathili | Mayurbhanj | Mohana | Motu | Nabarangapur | Naktideul | Nandapur | Narlaroad | Narsinghpur | Nayagarh | Nimapara | Nowparatan | Nowrangapur | Nuapada | Padampur | Paikamal | Palla Hara | Papadhandi | Parajang | Pardip | Parlakhemundi | Patnagarh | Pattamundai | Phiringia | Phulbani | Puri | Puruna Katak | R. Udayigiri | Rairakhol | Rairangpur | Rajgangpur | Rajkhariar | Rayagada | Rourkela | Sambalpur | Sohela | Sonapur | Soro | Subarnapur | Sunabeda | Sundergarh | Surada | T. Rampur | Talcher | Telkoi | Titlagarh | Tumudibandha | Udala | Umerkote ";

s_a[27]=" Bahur | Karaikal | Mahe | Pondicherry | Purnankuppam | Valudavur | Villianur | Yanam ";

s_a[28]=" Abohar | Ajnala | Amritsar | Balachaur | Barnala | Batala | Bathinda | Chandigarh | Dasua | Dinanagar | Faridkot | Fatehgarh Sahib | Fazilka | Ferozepur | Garhashanker | Goindwal | Gurdaspur | Guruharsahai | Hoshiarpur | Jagraon | Jalandhar | Jugial | Kapurthala | Kharar | Kotkapura | Ludhiana | Malaut | Malerkotla | Mansa | Moga | Muktasar | Nabha | Nakodar | Nangal | Nawanshahar | Nawanshahr | Pathankot | Patiala | Patti | Phagwara | Phillaur | Phulmandi | Qadian | Rajpura | Raman | Rayya | Ropar | Rupnagar | Samana | Samrala | Sangrur | Sardulgarh | Sarhind | SAS Nagar | Sultanpur Lodhi | Sunam | Tanda Urmar | Tarn Taran | Zira ";

s_a[29]=" Abu Road | Ahoire | Ajmer | Aklera | Alwar | Amber | Amet | Anupgarh | Asind | Aspur | Atru | Bagidora | Bali | Bamanwas | Banera | Bansur | Banswara | Baran | Bari | Barisadri | Barmer | Baseri | Bassi | Baswa | Bayana | Beawar | Begun | Behror | Bhadra | Bharatpur | Bhilwara | Bhim | Bhinmal | Bikaner | Bilara | Bundi | Chhabra | Chhipaborad | Chirawa | Chittorgarh | Chohtan | Churu | Dantaramgarh | Dausa | Deedwana | Deeg | Degana | Deogarh | Deoli | Desuri | Dhariawad | Dholpur | Digod | Dudu | Dungarpur | Dungla | Fatehpur | Gangapur | Gangdhar | Gerhi | Ghatol | Girwa | Gogunda | Hanumangarh | Hindaun | Hindoli | Hurda | Jahazpur | Jaipur | Jaisalmer | Jalore | Jhalawar | Jhunjhunu | Jodhpur | Kaman | Kapasan | Karauli | Kekri | Keshoraipatan | Khandar | Kherwara | Khetri | Kishanganj | Kishangarh | Kishangarhbas | Kolayat | Kota | Kotputli | Kotra | Kotri | Kumbalgarh | Kushalgarh | Ladnun | Ladpura | Lalsot | Laxmangarh | Lunkaransar | Mahuwa | Malpura | Malvi | Mandal | Mandalgarh | Mandawar | Mangrol | Marwar-Jn | Merta | Nadbai | Nagaur | Nainwa | Nasirabad | Nathdwara | Nawa | Neem Ka Thana | Newai | Nimbahera | Nohar | Nokha | Onli | Osian | Pachpadara | Pachpahar | Padampur | Pali | Parbatsar | Phagi | Phalodi | Pilani | Pindwara | Pipalda | Pirawa | Pokaran | Pratapgarh | Raipur | Raisinghnagar | Rajgarh | Rajsamand | Ramganj Mandi | Ramgarh | Rashmi | Ratangarh | Reodar | Rupbas | Sadulshahar | Sagwara | Sahabad | Salumber | Sanchore | Sangaria | Sangod | Sapotra | Sarada | Sardarshahar | Sarwar | Sawai Madhopur | Shahapura | Sheo | Sheoganj | Shergarh | Sikar | Sirohi | Siwana | Sojat | Sri Dungargarh | Sri Ganganagar | Sri Karanpur | Sri Madhopur | Sujangarh | Taranagar | Thanaghazi | Tibbi | Tijara | Todaraisingh | Tonk | Udaipur | Udaipurwati | Uniayara | Vallabhnagar | Viratnagar ";

s_a[30]=" Barmiak | Be | Bhurtuk | Chhubakha | Chidam | Chubha | Chumikteng | Dentam | Dikchu | Dzongri | Gangtok | Gauzing | Gyalshing | Hema | Kerung | Lachen | Lachung | Lema | Lingtam | Lungthu | Mangan | Namchi | Namthang | Nanga | Nantang | Naya Bazar | Padamachen | Pakhyong | Pemayangtse | Phensang | Rangli | Rinchingpong | Sakyong | Samdong | Singtam | Siniolchu | Sombari | Soreng | Sosing | Tekhug | Temi | Tsetang | Tsomgo | Tumlong | Yangang | Yumtang ";

s_a[31]=" Ambasamudram | Anamali | Arakandanallur | Arantangi | Aravakurichi | Ariyalur | Arkonam | Arni | Aruppukottai | Attur | Avanashi | Batlagundu | Bhavani | Chengalpattu | Chengam | Chennai | Chidambaram | Chingleput | Coimbatore | Courtallam | Cuddalore | Cumbum | Denkanikoitah | Devakottai | Dharampuram | Dharmapuri | Dindigul | Erode | Gingee | Gobichettipalayam | Gudalur | Gudiyatham | Harur | Hosur | Jayamkondan | Kallkurichi | Kanchipuram | Kangayam | Kanyakumari | Karaikal | Karaikudi | Karur | Keeranur | Kodaikanal | Kodumudi | Kotagiri | Kovilpatti | Krishnagiri | Kulithalai | Kumbakonam | Kuzhithurai | Madurai | Madurantgam | Manamadurai | Manaparai | Mannargudi | Mayiladuthurai | Mayiladutjurai | Mettupalayam | Metturdam | Mudukulathur | Mulanur | Musiri | Nagapattinam | Nagarcoil | Namakkal | Nanguneri | Natham | Neyveli | Nilgiris | Oddanchatram | Omalpur | Ootacamund | Ooty | Orathanad | Palacode | Palani | Palladum | Papanasam | Paramakudi | Pattukottai | Perambalur | Perundurai | Pollachi | Polur | Pondicherry | Ponnamaravathi | Ponneri | Pudukkottai | Rajapalayam | Ramanathapuram | Rameshwaram | Ranipet | Rasipuram | Salem | Sankagiri | Sankaran | Sathiyamangalam | Sivaganga | Sivakasi | Sriperumpudur | Srivaikundam | Tenkasi | Thanjavur | Theni | Thirumanglam | Thiruraipoondi | Thoothukudi | Thuraiyure | Tindivanam | Tiruchendur | Tiruchengode | Tiruchirappalli | Tirunelveli | Tirupathur | Tirupur | Tiruttani | Tiruvallur | Tiruvannamalai | Tiruvarur | Tiruvellore | Tiruvettipuram | Trichy | Tuticorin | Udumalpet | Ulundurpet | Usiliampatti | Uthangarai | Valapady | Valliyoor | Vaniyambadi | Vendasandur | Vellore | Velur | Vilathikulam | Villupuram | Virudhachalam | Virudhunagar | Wandiwash | Yercaud ";

s_a[32]=" Agartala | Ambasa | Bampurbari | Belonia | Dhalai | Dharam Nagar | Kailashahar | Kamal Krishnabari | Khopaiyapara | Khowai | Phuldungsei | Radha Kishore Pur | Tripura ";

s_a[33]=" Achhnera | Agra | Akbarpur | Aliganj | Aligarh | Allahabad | Ambedkar Nagar | Amethi | Amiliya | Amroha | Anola | Atrauli | Auraiya | Azamgarh | Baberu | Badaun | Baghpat | Bagpat | Baheri | Bahraich | Ballia | Balrampur | Banda | Bansdeeh | Bangaon | Bansi | Barabanki | Bareilly | Basti | Bhadohi | Bharthana | Bharwari | Bhogaon | Bhognipur | Bidhuna | Bijnore | Bikapur | Bilari | Bilgram | Bilhaur | Bindki | Bisalpur | Bisauli | Biswan | Budaun | Budhana | Bulandshahar | Bulandshahr | Capianganj | Chakia | Chandauli | Charkhari | Chhata | Chhibramau | Chirgaon | Chitrakoot | Chunur | Dadri | Dalmau | Dataganj | Debai | Deoband | Deoria | Derapur | Dhampur | Domariyaganj | Dudhi | Etah | Etawah | Faizabad | Farrukhabad | Fatehpur | Firozabad | Garauth | Garhmukteshwar | Gautam Buddha Nagar | Ghatampur | Ghaziabad | Ghazipur | Ghosi | Gonda | Gorakhpur | Gunnaur | Haidergarh | Hamirpur | Hapur | Hardoi | Harraiya | Hasanganj | Hasanpur | Hathras | Jalalabad | Jalaun | Jalesar | Jansath | Jarar | Jasrana | Jaunpur | Jhansi | Jyotiba Phule Nagar | Kadipur | Kaimganj | Kairana | Kaisarganj | Kalpi | Kannauj | Kanpur | Karchhana | Karhal | Karvi | Kasganj | Kaushambi | Kerakat | Khaga | Khair | Khalilabad | Kheri | Konch | Kumaon | Kunda | Kushinagar | Lalganj | Lalitpur | Lucknow | Machlishahar | Maharajganj | Mahoba | Mainpuri | Malihabad | Mariyahu | Math | Mathura | Mau | Maudaha | Maunathbhanjan | Mauranipur | Mawana | Meerut | Mehraun | Meja | Mirzapur | Misrih | Modinagar | Mohamdabad | Mohamdi | Moradabad | Musafirkhana | Muzaffarnagar | Nagina | Najibabad | Nakur | Nanpara | Naraini | Naugarh | Nawabganj | Nighasan | Noida | Orai | Padrauna | Pahasu | Patti | Pharenda | Phoolpur | Phulpur | Pilibhit | Pitamberpur | Powayan | Pratapgarh | Puranpur | Purwa | Raibareli | Rampur | Ramsanehi Ghat | Rasara | Rath | Robertsganj | Sadabad | Safipur | Sagri | Saharanpur | Sahaswan | Sahjahanpur | Saidpur | Salempur | Salon | Sambhal | Sandila | Sant Kabir Nagar | Sant Ravidas Nagar | Sardhana | Shahabad | Shahganj | Shahjahanpur | Shikohabad | Shravasti | Siddharthnagar | Sidhauri | Sikandra Rao | Sikandrabad | Sitapur | Siyana | Sonbhadra | Soraon | Sultanpur | Tanda | Tarabganj | Tilhar | Unnao | Utraula | Varanasi | Zamania ";

s_a[34]=" Almora | Bageshwar | Bhatwari | Chakrata | Chamoli | Champawat | Dehradun | Deoprayag |

```
Dharchula | Dunda | Haldwani | Haridwar | Joshimath | Karan Prayag | Kashipur | Khatima | Kichha |  
Lansdown | Munsiri | Mussoorie | Nainital | Pantnagar | Partapnagar | Pauri Garhwal | Pithoragarh |  
Purola | Rajgarh | Ranikhet | Roorkee | Rudraprayag | Tehri Garhwal | Udham Singh Nagar | Ukhimath |  
Uttarkashi";
```

```
s_a[35]=" Adra | Alipurduar | Amlagora | Arambagh | Asansol | Balurghat | Bankura | Bardhaman |  
Basirhat | Berhampur | Bethuadahari | Birbhum | Birpara | Bishanpur | Bolpur | Bongoan |  
Bulbulchandi | Burdwan | Calcutta | Canning | Champadanga | Contai | Cooch Behar | Daimond  
Harbour | Dalkhola | Dantan | Darjeeling | Dhaniakhali | Dhuliyani | Dinajpur | Dinhata | Durgapur |  
Gangajalghati | Gangarampur | Ghatal | Guskara | Habra | Haldia | Harirampur | Harishchandrapur |  
Hooghly | Howrah | Islampur | Jagatballavpur | Jalpaiguri | Jhalda | Jhargram | Kakdwip | Kalchini |  
Kalimpong | Kalna | Kandi | Karimpur | Katwa | Kharagpur | Khatra | Krishnanagar | Mal Bazar | Malda  
| Manbazar | Mathabhanga | Medinipur | Mekhliganj | Mirzapur | Murshidabad | Nadia | Nagarakata |  
Nalhati | Nayagarh | Parganas | Purulia | Raiganj | Rampur Hat | Ranaghat | Seharabazar | Siliguri |  
Suri | Takipur | Tamluk";
```

```
function print_state(state_id){  
    // given the id of the <select> tag as function argument, it inserts <option> tags  
    var option_str = document.getElementById(state_id);  
    option_str.length=0;  
    option_str.options[0] = new Option('Select State','');  
    option_str.selectedIndex = 0;  
    for (var i=0; i<state_arr.length; i++) {  
        option_str.options[option_str.length] = new Option(state_arr[i],state_arr[i]);  
    }  
}
```

```
function print_city(city_id, city_index){  
    var option_str = document.getElementById(city_id);  
    option_str.length=0;    // Fixed by Julian Woods  
    option_str.options[0] = new Option('Select City','');  
    option_str.selectedIndex = 0;  
    var city_arr = s_a[city_index].split(" |");  
    for (var i=0; i<city_arr.length; i++) {  
        option_str.options[option_str.length] = new Option(city_arr[i],city_arr[i]);  
    }  
}
```

> Back-End

RegisterController.java [code] :

```
package com.team33.evotingsystem.controller;  
  
import com.team33.evotingsystem.dto.ForgotPasswordDTO;  
import com.team33.evotingsystem.dto.RegisterDTO;  
import com.team33.evotingsystem.service.LoginRegistrationService;  
import org.springframework.beans.factory.annotation.Autowired;  
import org.springframework.stereotype.Controller;
```

```

import org.springframework.ui.Model;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.ModelAttribute;
import org.springframework.web.bind.annotation.PostMapping;

import java.time.LocalDate;
import java.time.temporal.ChronoUnit;

@Controller
public class LoginRegisterController {

    @Autowired
    LoginRegistrationService loginRegistrationService;

    @GetMapping("/register")
    public String registerPage(Model model) {
        model.addAttribute("registerDTO", new RegisterDTO());
        model.addAttribute("message", "");
        return "register";
    }

    @PostMapping("/register")
    public String register(@ModelAttribute("registerDTO") RegisterDTO registerDTO) {
        // checking for null
        if (registerDTO == null) {
            return "redirect:/register?error=true&message="+ "please try after some time!";
        }
        // userId validation
        try {
            if (registerDTO.getUserId().trim().length() != 12) {
                return "redirect:/register?error=true&message="+ "please enter valid aadhar number!";
            }

            Double.parseDouble(registerDTO.getUserId().trim());
        } catch (NumberFormatException n) {
            return "redirect:/register?error=true&message="+ "please enter valid aadhar number!";
        }
        if (loginRegistrationService.findByUserId(registerDTO.getUserId().trim()).isPresent()) {
            return "redirect:/register?error=true&message="+ "user already registered!";
        }
        // password validation
        if (registerDTO.getPassword().trim().isEmpty() || registerDTO.getPassword().trim().isBlank()) {
            return "redirect:/register?error=true&message="+ "password should not empty!";
        }
        if (!registerDTO.getPassword().trim().equals(registerDTO.getConfirmPassword().trim())) {
            return "redirect:/register?error=true&message="+ "password miss-matched!";
        }
        // first name validation
    }

```

```

    if(registerDTO.getFirstName().trim().isEmpty() || registerDTO.getFirstName().trim().isBlank()) {
        return "redirect:/register?error=true&message="+ "first name should not be empty!";
    }
    // age validation
    if(registerDTO.getDob() == null) {
        return "redirect:/register?error=true&message="+ "dob should not be empty!";
    }
    LocalDate dob = registerDTO.getDob().toLocalDate();
    long year = ChronoUnit.YEARS.between(dob,LocalDate.now());
    if(year < 18) {
        return "redirect:/register?error=true&message="+ "Age should be minimum 18 years!";
    }
    // gender validation
    if(registerDTO.getGender() == null || registerDTO.getGender().trim().isEmpty() ||
registerDTO.getGender().trim().isBlank()) {
        return "redirect:/register?error=true&message="+ "gender should not be empty!";
    }
    // religion validation
    if(registerDTO.getReligion() == null || registerDTO.getReligion().trim().isEmpty() ||
registerDTO.getReligion().trim().isBlank()) {
        return "redirect:/register?error=true&message="+ "please select your religion!";
    }
    // caste validation
    if(registerDTO.getCaste() == null || registerDTO.getCaste().trim().isEmpty() ||
registerDTO.getCaste().trim().isBlank()) {
        return "redirect:/register?error=true&message="+ "please select your caste!";
    }
    // address validation
    if(registerDTO.getAddress().trim().isEmpty() || registerDTO.getAddress().trim().isBlank()) {
        return "redirect:/register?error=true&message="+ "address should not be empty!";
    }
    // state validation
    if(registerDTO.getState() == null || registerDTO.getState().trim().isEmpty() ||
registerDTO.getState().trim().isBlank()) {
        return "redirect:/register?error=true&message="+ "please select your state!";
    }
    // city validation
    if(registerDTO.getCity() == null || registerDTO.getCity().trim().isEmpty() ||
registerDTO.getCity().trim().isBlank()) {
        return "redirect:/register?error=true&message="+ "please select your city!";
    }
    // phone no validation
    if(registerDTO.getPhoneNo().trim().isEmpty() || registerDTO.getPhoneNo().trim().isBlank()) {
        return "redirect:/register?error=true&message="+ "phone number should not empty!";
    }
    try {
        if (registerDTO.getPhoneNo().trim().length() != 10) {
            return "redirect:/register?error=true&message="+ "phone number should contain minimum 10
numbers!";

```

```

    }

    Double.parseDouble(registerDTO.getPhoneNo().trim());
} catch (NumberFormatException n) {
    return "redirect:/register?error=true&message="+ "please enter valid phone number!";
}

if(loginRegistrationService.saveUserDetails(registerDTO))
    return "redirect:/login";
else
    return "redirect:/register?error=true&message="+ "please try after some time!";
}
}

```

RegisterService.java [code] :

```

package com.team33.evotingsystem.service;

import com.team33.evotingsystem.dto.ForgotPasswordDTO;
import com.team33.evotingsystem.dto.RegisterDTO;
import com.team33.evotingsystem.model.LoginCredentials;
import com.team33.evotingsystem.model.Role;
import com.team33.evotingsystem.model.UserDetails;
import com.team33.evotingsystem.repository.LoginCredentialsRepository;
import com.team33.evotingsystem.repository.RoleRepository;
import com.team33.evotingsystem.repository.UserDetailsRepository;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.security.crypto.bcrypt.BCryptPasswordEncoder;
import org.springframework.stereotype.Service;

import java.util.ArrayList;
import java.util.List;
import java.util.Optional;

@Service
public class LoginRegistrationService {

    @Autowired
    RoleRepository roleRepository;
    @Autowired
    UserDetailsRepository userDetailsRepository;
    @Autowired
    BCryptPasswordEncoder bCryptPasswordEncoder;
    @Autowired
    LoginCredentialsRepository loginCredentialsRepository;
}

```

```

public boolean saveUserDetails(RegisterDTO dto) {
    UserDetails user = new UserDetails();
    user.setUserId(dto.getUserId().trim());
    user.setFirstName(dto.getFirstName().trim());
    user.setLastName(dto.getLastName().trim());
    user.setGender(dto.getGender().trim());
    user.setCaste(dto.getCaste().trim());
    user.setReligion(dto.getReligion().trim());
    user.setDob(dto.getDob());
    user.setAddress(dto.getAddress().trim());
    user.setState(dto.getState().trim());
    user.setCity(dto.getCity().trim());
    user.setPhoneNo(dto.getPhoneNo().trim());

    LoginCredentials credentials = new LoginCredentials();
    credentials.setUserId(dto.getUserId().trim());
    credentials.setPassword(bCryptPasswordEncoder.encode(dto.getPassword().trim()));
    credentials.setRoles(new ArrayList<>(List.of(roleRepository.findById(2).orElse(new
Role(4,"ROLE_USER")))));

    user.setLoginCredentials(credentials);

    UserDetails saved = userDetailsRepository.save(user);
    return saved.getId() > 0;
}

public Optional<UserDetails> findByIdUserId(String userId) {
    return userDetailsRepository.findByIdUserId(userId);
}

public boolean resetPassword(ForgotPasswordDTO dto) {
    int updatedCredential = loginCredentialsRepository.updatePassword(
        bCryptPasswordEncoder.encode(dto.getPassword().trim()),
        dto.getUserId().trim()
    );

    return updatedCredential>0;
}

public boolean addVoterIdByUserId(String voterId, String userId) {
    return userDetailsRepository.addVoterIdByUserId(voterId,userId) > 0;
}

public Optional<String> findVoterIdByUserId(String userId) {
    return userDetailsRepository.findVoterIdByUserId(userId);
}
}

```


RegisterRepository.java [code] :

```
package com.team33.evotingsystem.repository;

import com.team33.evotingsystem.model.UserDetails;
import org.springframework.data.jpa.repository.JpaRepository;
import org.springframework.data.jpa.repository.Modifying;
import org.springframework.data.jpa.repository.Query;
import org.springframework.stereotype.Repository;

import javax.transaction.Transactional;
import java.util.Optional;

@Repository
public interface UserDetailsRepository extends JpaRepository<UserDetails,Integer> {
    Optional<UserDetails> findById(String userId);

    @Modifying
    @Transactional
    @Query("update UserDetails set voterId=:voterId where userId=:userId")
    int addVoterIdByUserId(String voterId, String userId);

    @Query("select voterId from UserDetails where userId=:userId")
    Optional<String> findVoterIdByUserId(String userId);
}
```

```
package com.team33.evotingsystem.repository;

import com.team33.evotingsystem.model.Role;
import org.springframework.data.jpa.repository.JpaRepository;
import org.springframework.stereotype.Repository;

@Repository
public interface RoleRepository extends JpaRepository<Role,Integer> {
}
```

```
package com.team33.evotingsystem.repository;

import com.team33.evotingsystem.model.LoginCredentials;
import org.springframework.data.jpa.repository.JpaRepository;
import org.springframework.data.jpa.repository.Modifying;
import org.springframework.data.jpa.repository.Query;
import org.springframework.stereotype.Repository;

import javax.transaction.Transactional;
```

```

import java.util.Optional;

@Repository
public interface LoginCredentialsRepository extends JpaRepository<LoginCredentials,Integer> {

    Optional<LoginCredentials> findById(String userId);

    @Modifying
    @Transactional
    @Query("update LoginCredentials set password=:password where userId=:userId")
    int updatePassword(String password, String userId);
}

```

RegisterModels :
UserDetails.java

```

package com.team33.evotingsystem.model;

import lombok.*;

import javax.persistence.*;
import javax.validation.constraints.NotNull;
import java.io.Serializable;
import java.sql.Date;

@Getter
@Setter
@NoArgsConstructor
@AllArgsConstructor
@Entity
public class UserDetails implements Serializable {
    @Id
    @GeneratedValue(strategy = GenerationType.AUTO)
    private int id;

    @NotNull
    private String userId;

    private String voterId;
    private String firstName;
    private String lastName;
    private Date dob;
}

```

```

private String gender;
private String religion;
private String caste;
private String address;
private String state;
private String city;
private String phoneNo;

@OneToOne(cascade = CascadeType.ALL)
@JoinColumn(name = "user_login_credentials", referencedColumnName = "user_id")
private LoginCredentials loginCredentials;
}

```

Role.java

```

package com.team33.evotingsystem.model;

import lombok.*;

import javax.persistence.*;
import java.util.List;

@Entity
public class Role {
    @Id
    @Column(name = "role_id")
    @GeneratedValue(strategy = GenerationType.AUTO)
    private int roleId;

    @Column(name = "role_name")
    private String roleName;

    @ManyToMany(mappedBy = "roles")
    List<LoginCredentials> credentials;

    public Role(int roleId, String roleName) {
        this.roleId = roleId;
        this.roleName = roleName;
    }
}

```

LoginCredentials.java

```
package com.team33.evotingsystem.model;

import lombok.*;

import javax.persistence.*;
import javax.validation.constraints.NotNull;
import java.io.Serializable;
import java.util.List;

@Entity
@AllArgsConstructor
@NoArgsConstructor
@Getter
@Setter
@Entity
public class LoginCredentials implements Serializable {
    @Id
    @GeneratedValue(strategy = GenerationType.AUTO)
    private int id;

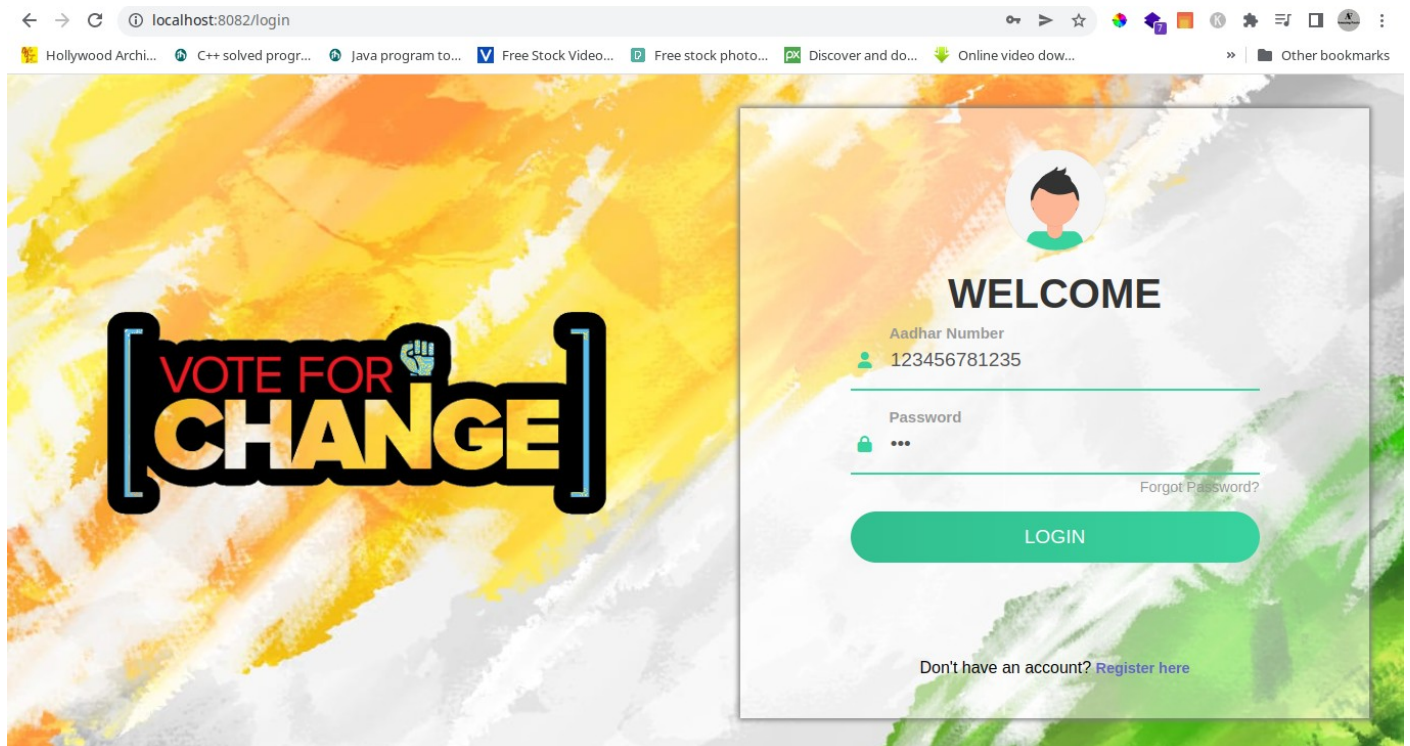
    @NotNull
    @Column(name = "user_id")
    private String userId;

    @Column(name = "password")
    private String password;

    @ManyToMany(cascade = CascadeType.MERGE, fetch = FetchType.EAGER)
    @JoinTable(
        name = "user_role",
        joinColumns = {@JoinColumn(name = "user_id", referencedColumnName = "user_id")},
        inverseJoinColumns = {@JoinColumn(name = "role_id", referencedColumnName = "role_id")}
    )
    private List<Role> roles;

    public LoginCredentials(LoginCredentials credentials) {
        this.userId = credentials.getUserId();
        this.password = credentials.getPassword();
        this.roles = credentials.getRoles();
    }
}
```

2. Login Page



> Front-End
login.html [code] :

```

<!DOCTYPE html>
<html lang="en" xmlns:th="http://www.thymeleaf.org">

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Login</title>
  <link rel="stylesheet" href="login.css" th:href="@{/css/login.css}">
</head>

<body>
  <div class="container">
    <div class="logo-image">
      
    </div>
    <div class="form-field">
      <main id="main-holder">
        <div id="login-error-msg-holder" th:if="${param.error}">
          <p id="login-error-msg">Invalid username and/or password<span id="error-msg-second-
line"></span></p>
        </div>

        <div class="login-content">
          <form th:action="@{/login}" method="post">
            
            <h2 class="title">Welcome</h2>
            <div class="input-div one">
              <div class="i">
                <i class="fas fa-user"></i>
              </div>
              <div class="div">
                <h5>Aadhar Number</h5>
                <input type="text" class="input" name="userId" required>
              </div>
            </div>
            <div class="input-div pass">
              <div class="i">
                <i class="fas fa-lock"></i>
              </div>
              <div class="div">
                <h5>Password</h5>
                <input type="password" class="input" name="password" required>
              </div>
            </div>
            <a href="/forgot-password.html" th:href="@{/forgot-password}">Forgot Password?</a>
            <input type="submit" class="btn" value="Login">
          </form>
        </div>
        <span>Don't have an account? <a class="linkControl" href="/register.html" th:href="@{/register}">

```

```

style="display: inline; color: #6666CA; font-weight: bolder;">Register here</a></span>
    </main>
  </div>
</div>
<script src="https://kit.fontawesome.com/902e5a7c60.js" crossorigin="anonymous"></script>
<script th:src="@{/js/login.js}" src="/js/login.js"></script>
</body>

</html>

```

> Back-End

LoginController.java

```

package com.team33.evotingsystem.controller;

import com.team33.evotingsystem.dto.ForgotPasswordDTO;
import com.team33.evotingsystem.dto.RegisterDTO;
import com.team33.evotingsystem.service.LoginRegistrationService;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Controller;
import org.springframework.ui.Model;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.ModelAttribute;
import org.springframework.web.bind.annotation.PostMapping;

import java.time.LocalDate;
import java.time.temporal.ChronoUnit;

@Controller
public class LoginRegisterController {

    @Autowired
    LoginRegistrationService loginRegistrationService;

    @GetMapping("/login")
    public String loginPage() {
        return "login";
    }
}

```

SecurityConfig.java

```

package com.team33.evotingsystem.config;

```

```

import com.team33.evotingsystem.service.CustomUserDetailsService;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.Configuration;
import
org.springframework.security.config.annotation.authentication.builders.AuthenticationManagerBuilder;
import org.springframework.security.config.annotation.web.builders.HttpSecurity;
import org.springframework.security.config.annotation.web.builders.WebSecurity;
import org.springframework.security.config.annotation.web.configuration.EnableWebSecurity;
import
org.springframework.security.config.annotation.web.configuration.WebSecurityConfigurerAdapter;
import org.springframework.security.crypto.bcrypt.BCryptPasswordEncoder;

@Configuration
@EnableWebSecurity
public class SecurityConfig extends WebSecurityConfigurerAdapter {

    @Autowired
    CustomUserDetailsService customUserDetailsService;
    @Autowired
    CustomAuthenticationSuccessHandler customAuthenticationSuccessHandler;

    @Override
    protected void configure(HttpSecurity http) throws Exception {
        http
            .authorizeRequests()
            .antMatchers("/", "/register", "/home", "/forgot-password").permitAll()
            .antMatchers("/admin").hasAnyRole("ADMIN")
            .antMatchers("/electoral").hasAnyRole("ELECTORAL")
            .antMatchers("/voter").hasAnyRole("VOTER")
            .anyRequest().authenticated()
            .and()
            .formLogin()
            .loginPage("/login")
            .permitAll()
            .failureUrl("/login?error=true")
            .successHandler(customAuthenticationSuccessHandler)
            .usernameParameter("userId")
            .passwordParameter("password")
            .and()
            .logout()
            .logoutSuccessUrl("/")
            .invalidateHttpSession(true)
            .deleteCookies("JSESSIONID")
            .and()
            .exceptionHandling()
            .and()
            .csrf().disable();
    }
}

```



```

@Bean
public BCryptPasswordEncoder bCryptPasswordEncoder() {
    return new BCryptPasswordEncoder();
}

@Override
protected void configure(AuthenticationManagerBuilder auth) throws Exception {
    auth.userDetailsService(customUserDetailsService);
}

@Override
public void configure(WebSecurity web) throws Exception {
    web.ignoring().antMatchers("/resources/**", "/css/**", "/js/**", "/images/**", "/static/**");
}
}

```

CustomAuthenticationSuccessHandler.java

```

package com.team33.evotingsystem.config;

import org.springframework.context.annotation.Configuration;
import org.springframework.security.core.Authentication;
import org.springframework.security.core.authority.AuthorityUtils;
import org.springframework.security.web.authentication.AuthenticationSuccessHandler;

import javax.servlet.ServletException;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import java.io.IOException;
import java.util.Set;

@Configuration
public class CustomAuthenticationSuccessHandler implements AuthenticationSuccessHandler {
    @Override
    public void onAuthenticationSuccess(HttpServletRequest request, HttpServletResponse response,
Authentication authentication) throws IOException, ServletException {
        Set<String> roles = AuthorityUtils.authorityListToSet(authentication.getAuthorities());

        if(roles.contains("ROLE_ADMIN")) {
            response.sendRedirect("/admin");
        } else if(roles.contains("ROLE_ELECTORAL")) {
            response.sendRedirect("/electoral");
        } else if(roles.contains("ROLE_VOTER")) {
            response.sendRedirect("/voter");
        } else {
            response.sendRedirect("/");
        }
    }
}

```

```
}  
}
```

LoginService.java

```
package com.team33.evotingsystem.service;  
  
import com.team33.evotingsystem.dto.ForgotPasswordDTO;  
import com.team33.evotingsystem.dto.RegisterDTO;  
import com.team33.evotingsystem.model.LoginCredentials;  
import com.team33.evotingsystem.model.Role;  
import com.team33.evotingsystem.model.UserDetails;  
import com.team33.evotingsystem.repository.LoginCredentialsRepository;  
import com.team33.evotingsystem.repository.RoleRepository;  
import com.team33.evotingsystem.repository.UserDetailsRepository;  
import org.springframework.beans.factory.annotation.Autowired;  
import org.springframework.security.crypto.bcrypt.BCryptPasswordEncoder;  
import org.springframework.stereotype.Service;  
  
import java.util.ArrayList;  
import java.util.List;  
import java.util.Optional;  
  
@Service  
public class LoginRegistrationService {  
  
    @Autowired  
    RoleRepository roleRepository;  
    @Autowired  
    UserDetailsRepository userDetailsRepository;  
    @Autowired  
    BCryptPasswordEncoder bCryptPasswordEncoder;  
    @Autowired  
    LoginCredentialsRepository loginCredentialsRepository;  
  
    public boolean saveUserDetails(RegisterDTO dto) {  
        UserDetails user = new UserDetails();  
        user.setUserId(dto.getUserId().trim());  
        user.setFirstName(dto.getFirstName().trim());  
        user.setLastName(dto.getLastName().trim());  
        user.setGender(dto.getGender().trim());  
        user.setCaste(dto.getCaste().trim());  
        user.setReligion(dto.getReligion().trim());  
        user.setDob(dto.getDob());  
        user.setAddress(dto.getAddress().trim());  
        user.setState(dto.getState().trim());  
        user.setCity(dto.getCity().trim());  
        user.setPhoneNo(dto.getPhoneNo().trim());  
    }  
}
```

```

        LoginCredentials credentials = new LoginCredentials();
        credentials.setUserId(dto.getUserId().trim());
        credentials.setPassword(bCryptPasswordEncoder.encode(dto.getPassword().trim()));
        credentials.setRoles(new ArrayList<>(List.of(roleRepository.findById(2).orElse(new
Role(4,"ROLE_USER")))));

        user.setLoginCredentials(credentials);

        UserDetails saved = userDetailsRepository.save(user);
        return saved.getId() > 0;
    }

    public Optional<UserDetails> findByIdById(String userId) {
        return userDetailsRepository.findById(userId);
    }

    public boolean resetPassword(ForgotPasswordDTO dto) {
        int updatedCredential = loginCredentialsRepository.updatePassword(
            bCryptPasswordEncoder.encode(dto.getPassword().trim()),
            dto.getUserId().trim()
        );

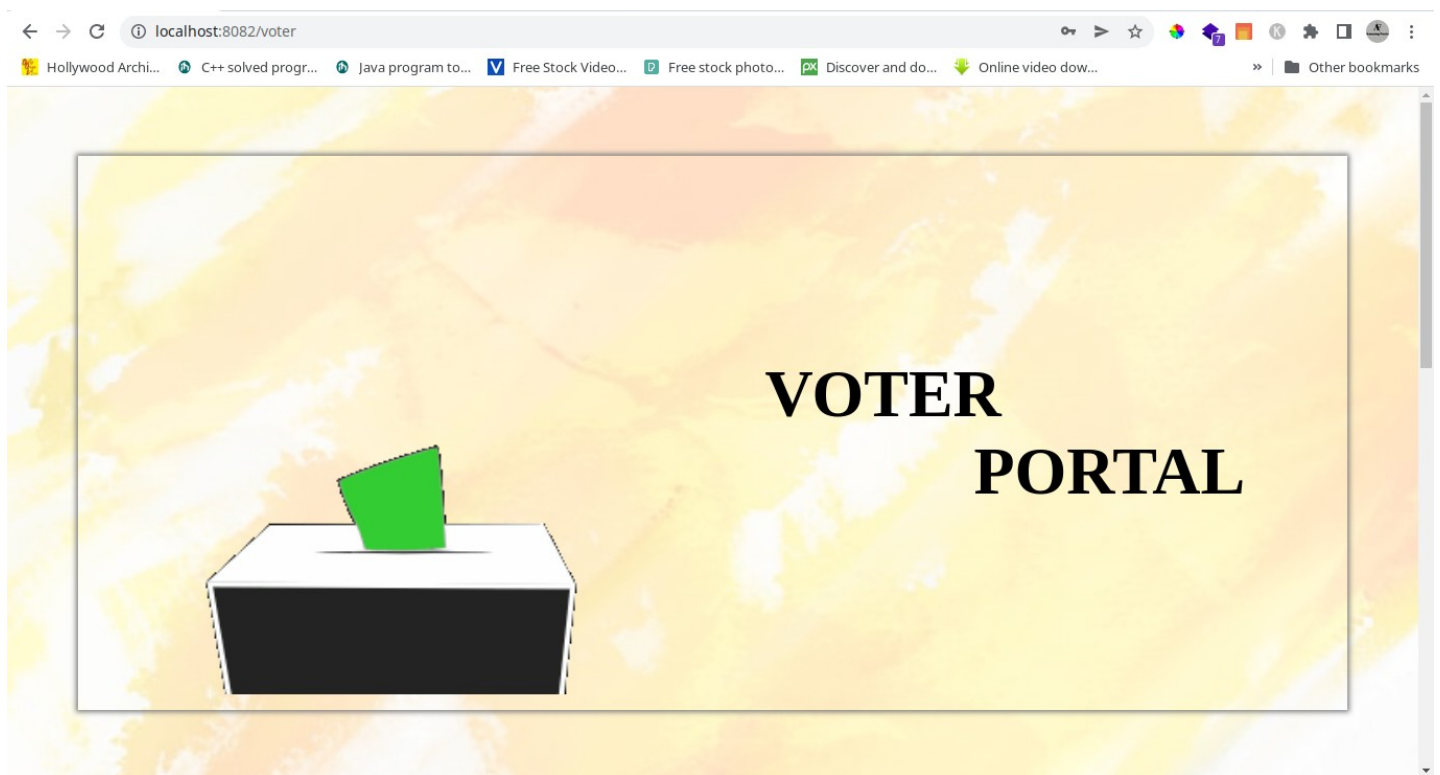
        return updatedCredential>0;
    }

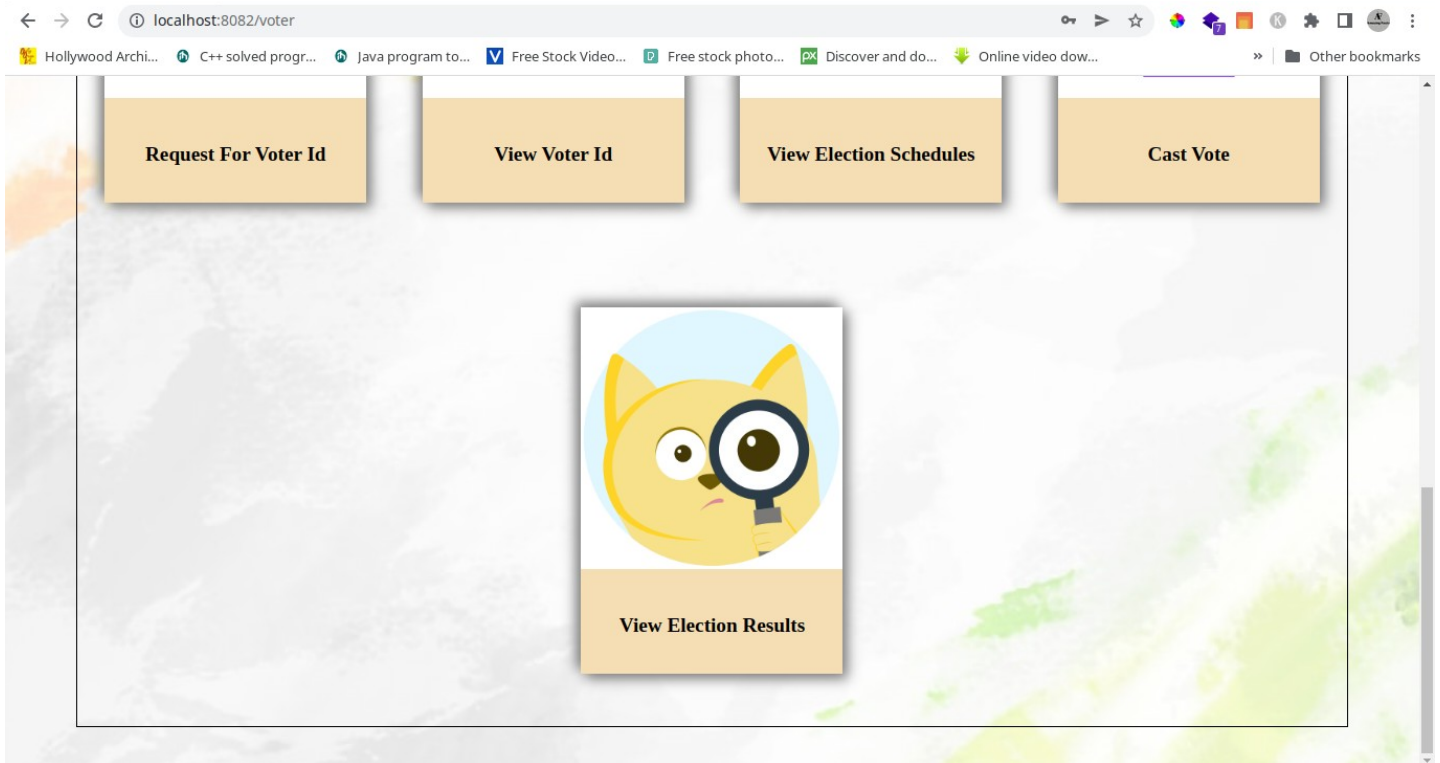
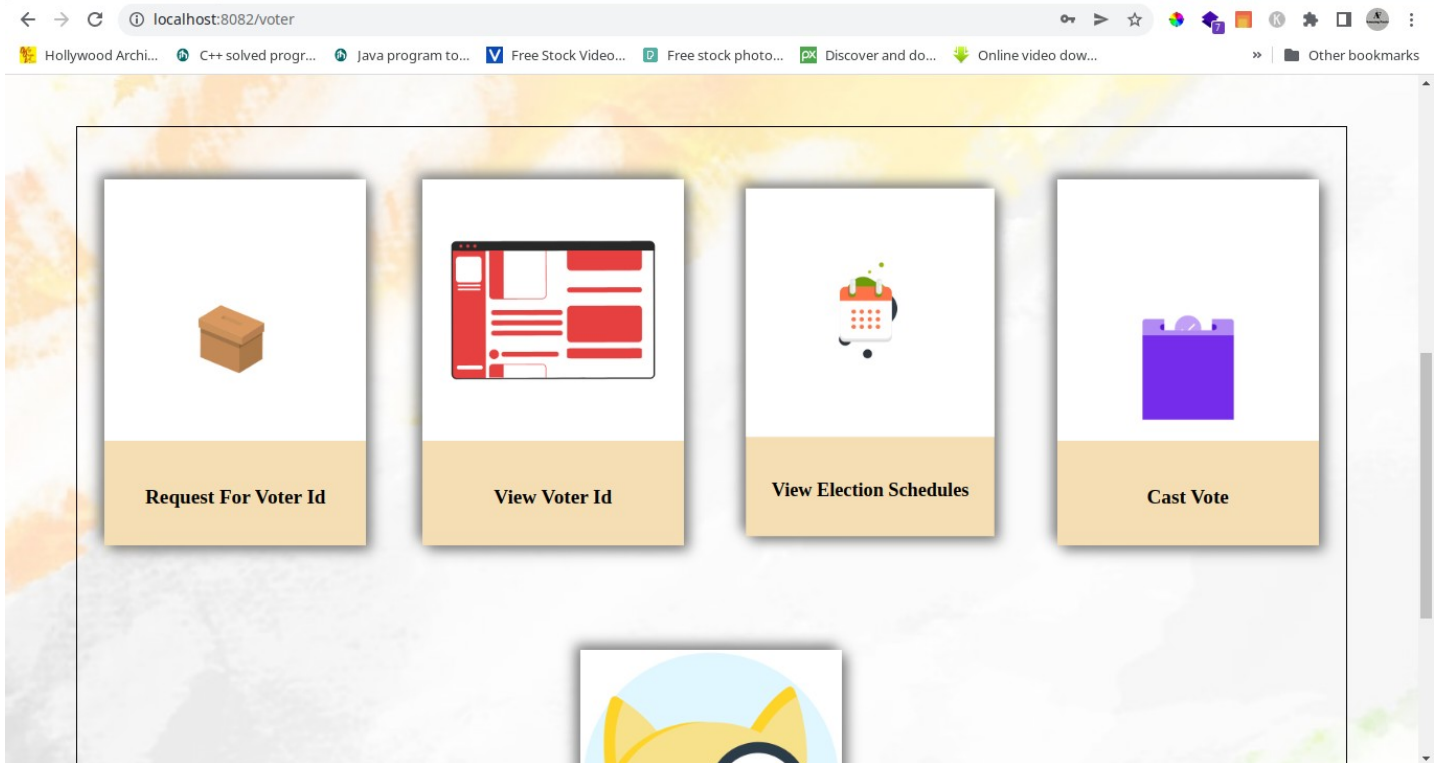
    public boolean addVoterIdByUserId(String voterId, String userId) {
        return userDetailsRepository.addVoterIdByUserId(voterId,userId) > 0;
    }

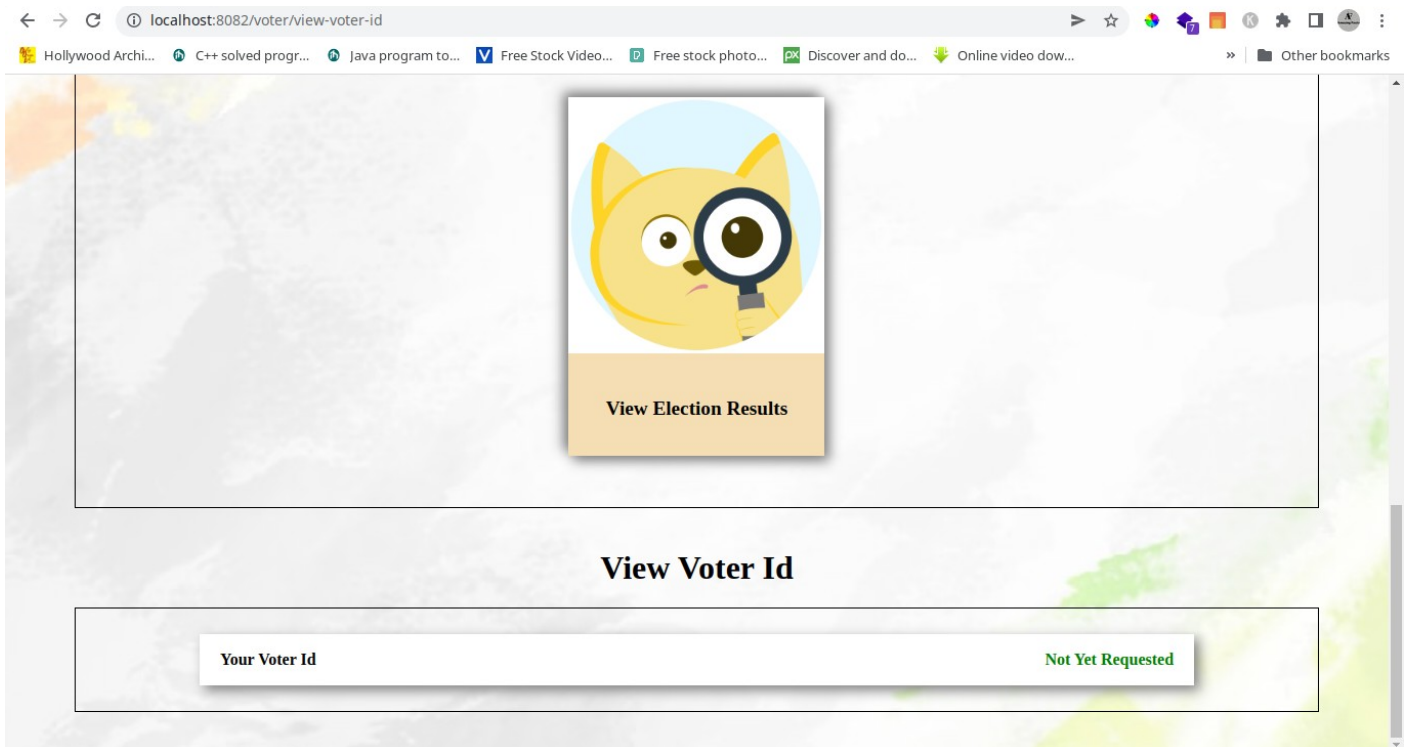
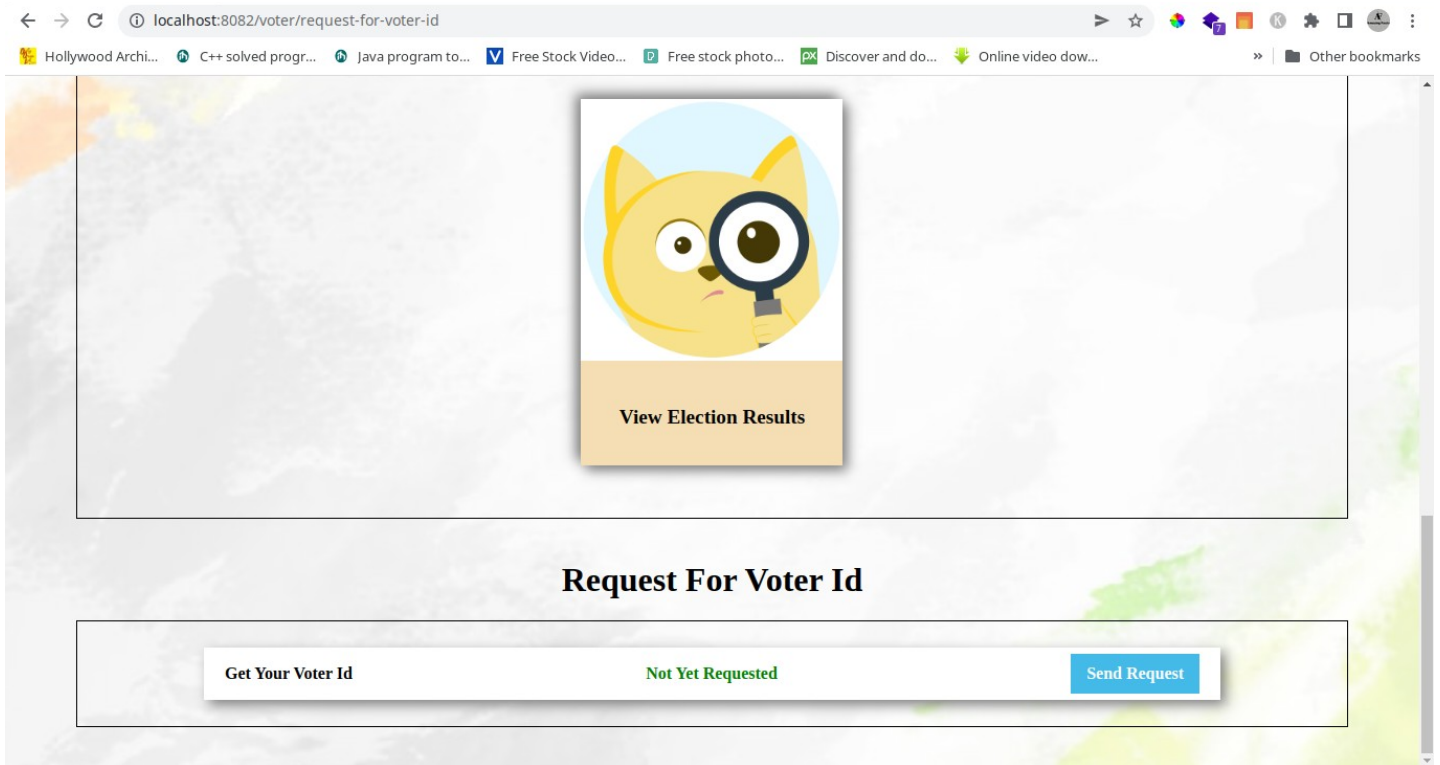
    public Optional<String> findVoterIdByUserId(String userId) {
        return userDetailsRepository.findVoterIdByUserId(userId);
    }
}

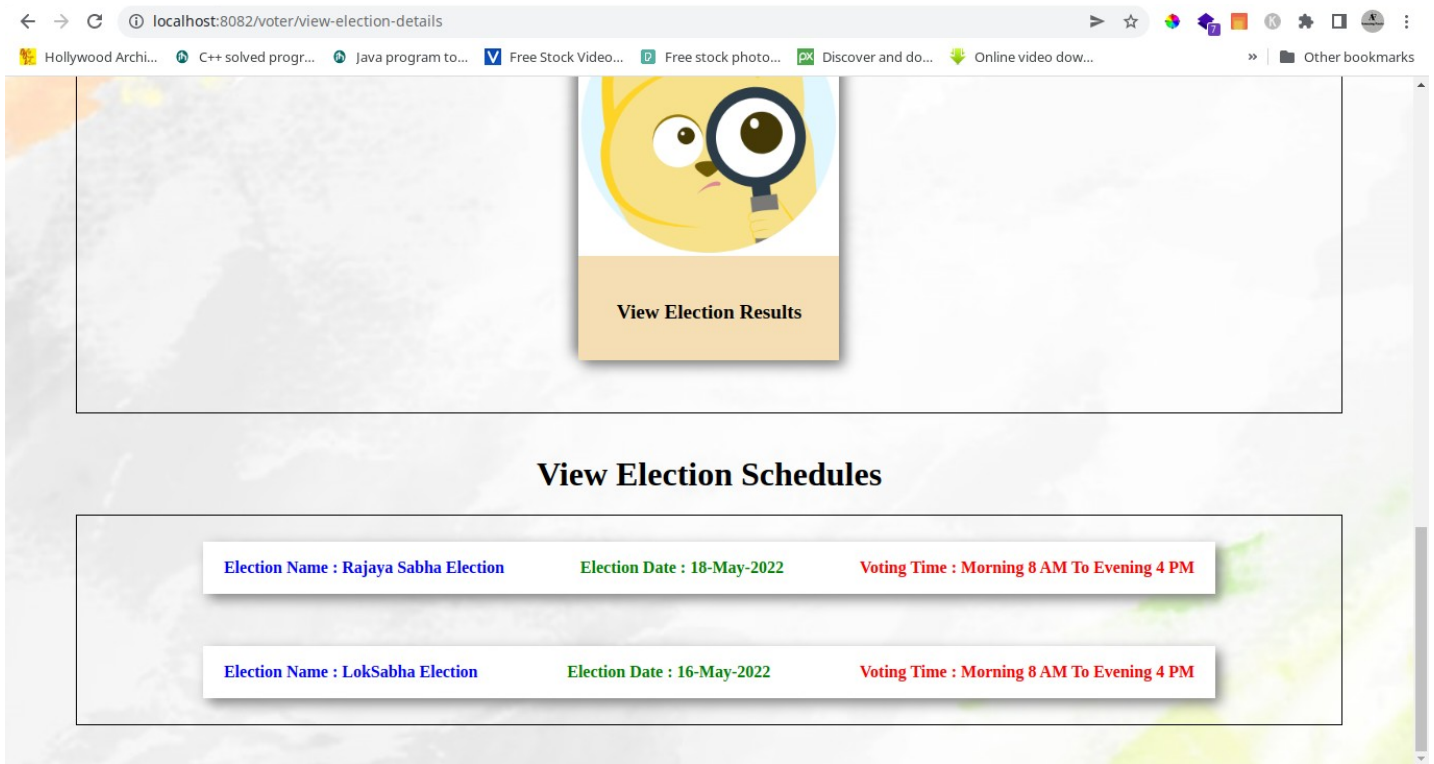
```

3. Voter Page









> Front-End
voter-home.html

```
<!DOCTYPE html>
<html lang="en" xmlns:th="http://www.thymeleaf.org">

<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Voter Home</title>
  <link rel="stylesheet" href="/static/css/voter-home.css" th:href="@{/css/voter-home.css}">
</head>

<body>
  <div class="header-container">
    <div class="header-card">
      <div class="part-1">
        
      </div>
      <div class="part-2">
        <p>VOTER</p>
        <p id="portal">PORTAL</p>
      </div>
    </div>
  </div>
```



```

</div>
<div class="card-container">
  <div class="cards">
    <div class="card" th:onclick="|window.location.href='/voter/request-for-voter-id'|">
      
      <p>Request For Voter Id</p>
    </div>
    <div class="card" th:onclick="|window.location.href='/voter/view-voter-id'|">
      
      <p>View Voter Id</p>
    </div>
    <div class="card" th:onclick="|window.location.href='/voter/view-election-details'|">
      
      <p>View Election Schedules</p>
    </div>
    <div class="card">
      
      <p>Cast Vote</p>
    </div>
    <div class="card">
      
      <p>View Election Results</p>
    </div>
  </div>
</div>

```

```

<!-- request voter Id section -->
<div class="show-details" th:if="{status}">
  <h1>Request For Voter Id</h1>
  <div class="details-cards">
    <div class="request-card">
      <p style="font-weight: bolder;">Get Your Voter Id</p>
      <p style="color:green;font-weight:bold;" th:text="{status}">status</p>
      <a href="" th:href="@{/voter/send-request}" th:if="{status == 'Not Yet Requested'}">Send
Request</a>
    </div>
  </div>
</div>

```

```

<!-- view voter Id section -->
<div class="show-details" th:if="{voterId}">
  <h1>View Voter Id</h1>
  <div class="details-cards">
    <div class="request-card">
      <p style="font-weight: bolder;">Your Voter Id</p>
      <p style="color:green;font-weight:bold;" th:text="{voterId}">status</p>
    </div>
  </div>
</div>

```



```

<!-- Election Details section -->
<div class="show-details" th:if="${electionDetails}">
  <h1>View Election Schedules</h1>
  <div class="details-cards">
    <div class="request-card" th:each="details : ${electionDetails}">
      <p style="font-weight: bolder; color:blue;" th:text="${'Election Name : '+details.electionName}">Election Name</p>
      <p style="color:green;font-weight:bold;" th:text="${'Election Date : '+details.electionDate}">Date</p>
      <p style="color:red;font-weight:bold;" th:text="${'Voting Time : '+details.votingTime}">Voting Time</p>
    </div>
  </div>
</div>

</body>

</html>

```

voter-home.css

```

* {
  margin: 0;
  padding: 0;
  box-sizing: border-box;
}

body {
  background: linear-gradient(rgba(255, 255, 255, .7), rgba(255, 255, 255, .7)), url('/images/login-bg.jpeg');
  background-repeat: no-repeat;
  background-size: cover;
}

.header-container {
  width: 100%;
  height: 100vh;
  display: flex;
  align-items: center;
  justify-content: center;
}

.header-card {
  width: 90%;
  height: 80%;
  background: transparent;
}

```

```
box-shadow: 0px 0px 5px 2px gray;
display: flex;
justify-content: center;
align-items: center;
}
```

```
.header-card .part-1 {
width: 100%;
height: 100%;
display: flex;
justify-content: center;
align-items: center;
}
```

```
.header-card .part-2 {
width: 100%;
height: 100%;
display: flex;
justify-content: center;
align-items: flex-start;
flex-direction: column;
}
```

```
.part-1 img {
width: 500px;
height: 500px;
/* box-shadow: #ddd 0 0 10px; */
}
```

```
.part-2 p {
font-size: 4rem;
font-weight: bolder;
}
```

```
.part-2 p {
margin-left: 50px;
}
```

```
.part-2 #portal {
margin-left: 250px;
}
```

```
.card-container {
width: 100%;
height: fit-content;
margin: 20px auto;
display: flex;
align-items: center;
justify-content: center;
}
```

```
}

.card-container .cards {
  width: 90%;
  height: fit-content;
  margin: 20px auto;
  display: flex;
  justify-content: center;
  align-items: center;
  flex-wrap: wrap;
  border: 1px solid black;
}

.cards .card {
  width: 250px;
  height: 350px;
  margin: 50px auto;
  background-color: wheat;
  text-align: center;
  box-shadow: 5px 5px 12px gray, -5px -5px 12px gray;
  cursor: pointer;
  transition: all .5s;
}

.cards .card:hover {
  transform: scale(.95);
}

.card img {
  width: 250px;
  height: 250px;
}

.card p {
  width: 250px;
  height: 100px;
  font-size: larger;
  font-weight: bolder;
  display: flex;
  justify-content: center;
  align-items: center;
  color: black;
}

.show-details {
  width: 100%;
  height: fit-content;
  margin: 20px auto;
  display: flex;
```

```

    align-items: center;
    justify-content: center;
    flex-direction: column;
}

.show-details .details-cards {
    width: 90%;
    height: fit-content;
    margin: 20px auto;
    display: flex;
    justify-content: center;
    align-items: center;
    flex-wrap: wrap;
    border: 1px solid black;
}

.request-card {
    width: 80%;
    height: 50px;
    background-color: white;
    box-shadow: 5px 5px 12px gray;
    display: flex;
    justify-content: space-between;
    align-items: center;
    margin: 25px auto;
    padding: 20px;
}

.request-card a {
    text-decoration: none;
    padding: 10px 15px;
    background-color: rgb(68, 186, 233);
    color: white;
    font-weight: bold;
    transition: all .25s;
}

.request-card a:hover {
    transform: scale(1.01);
    box-shadow: 5px 5px 8px gray;
}

```

> Back-End

VoterController.java

```

package com.team33.evotingsystem.controller;

import com.team33.evotingsystem.dto.ElectionDetailsDto;

```

```

import com.team33.evotingsystem.model.CustomUserDetails;
import com.team33.evotingsystem.model.ElectionDetails;
import com.team33.evotingsystem.model.UserDetails;
import com.team33.evotingsystem.model.VoterIdRequestDetails;
import com.team33.evotingsystem.service.LoginRegistrationService;
import com.team33.evotingsystem.service.VoterIdRequestDetailsService;
import com.team33.evotingsystem.service.VoterService;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.security.core.context.SecurityContextHolder;
import org.springframework.stereotype.Controller;
import org.springframework.ui.Model;
import org.springframework.web.bind.annotation.GetMapping;

import java.text.SimpleDateFormat;
import java.util.ArrayList;
import java.util.List;
import java.util.Optional;

@Controller
public class VoterController {

    @Autowired
    VoterIdRequestDetailsService voterIdRequestDetailsService;
    @Autowired
    LoginRegistrationService loginRegistrationService;
    @Autowired
    VoterService voterService;

    @GetMapping("/voter")
    public String voterPage() {
        return "voter-home";
    }

    @GetMapping("/voter/request-for-voter-id")
    public String requestForVoterId(Model model) {
        Object principal = SecurityContextHolder.getContext().getAuthentication().getPrincipal();
        if(principal instanceof CustomUserDetails) {
            String userId = ((CustomUserDetails)principal).getUsername();
            Optional<VoterIdRequestDetails> voterIdRequest =
voterIdRequestDetailsService.findByUserId(userId);
            if(voterIdRequest.isPresent()) {
                model.addAttribute("status",voterIdRequest.get().getStatus());
            } else {
                Optional<String> voterId = loginRegistrationService.findVoterIdByUserId(userId);
                if(voterId.isPresent()) {
                    model.addAttribute("status","Already Generated");
                } else {
                    model.addAttribute("status", "Not Yet Requested");
                }
            }
        }
    }
}

```

```

    }
}
return "voter-home";
}

@GetMapping("/voter/send-request")
public String processRequestForVoterId() {
    Object principal = SecurityContextHolder.getContext().getAuthentication().getPrincipal();
    if(principal instanceof CustomUserDetails) {
        String userId = ((CustomUserDetails)principal).getUsername();
        boolean result = voterIdRequestDetailsService.save(new VoterIdRequestDetails(userId,"pending"));
    }
    return "redirect:/voter/request-for-voter-id";
}

@GetMapping("/voter/view-voter-id")
public String viewVoterId(Model model) {
    Object principal = SecurityContextHolder.getContext().getAuthentication().getPrincipal();
    if(principal instanceof CustomUserDetails) {
        String userId = ((CustomUserDetails)principal).getUsername();
        Optional<VoterIdRequestDetails> voterIdRequest =
voterIdRequestDetailsService.findByUserId(userId);
        if(voterIdRequest.isPresent()) {
            model.addAttribute("voterId",voterIdRequest.get().getStatus());
        } else {
            Optional<String> voterId = loginRegistrationService.findVoterIdByUserId(userId);
            if(voterId.isPresent()) {
                model.addAttribute("voterId",voterId.get());
            } else {
                model.addAttribute("voterId", "Not Yet Requested");
            }
        }
    }
}
return "voter-home";
}

@GetMapping("/voter/view-election-details")
public String viewElectionDetails(Model model) {
    List<ElectionDetails> eDetailsList = voterService.recentElectionDetails();
    List<ElectionDetailsDto> detailsDtoList = new ArrayList<>();
    eDetailsList.forEach(eDetails -> {
        ElectionDetailsDto detailsDto = new ElectionDetailsDto();
        detailsDto.setElectionName(eDetails.getElectionName());
        detailsDto.setVotingTime(eDetails.getVotingTime());
        SimpleDateFormat sdf = new SimpleDateFormat("dd-MMM-yyyy");
        String date = sdf.format(eDetails.getElectionDate());
        detailsDto.setElectionDate(date);
        detailsDtoList.add(detailsDto);
    });
}

```

```

        model.addAttribute("electionDetails",detailsDtoList);

        return "voter-home";
    }
}

```

VoterIdRequestDetails.java

```

package com.team33.evotingsystem.model;

import lombok.AllArgsConstructor;
import lombok.Getter;
import lombok.NoArgsConstructor;
import lombok.Setter;

import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.Id;

@Getter
@Setter
@NoArgsConstructor
@AllArgsConstructor
@Entity
public class VoterIdRequestDetails {
    @Id
    @GeneratedValue(strategy = GenerationType.AUTO)
    private int id;

    private String userId;
    private String status;

    public VoterIdRequestDetails(String userId, String status) {
        this.userId = userId;
        this.status = status;
    }
}

```

VoterIdRequestDetailsRepository.java

```

package com.team33.evotingsystem.repository;

import com.team33.evotingsystem.model.UserDetails;
import com.team33.evotingsystem.model.VoterIdRequestDetails;

```

```

import org.springframework.data.jpa.repository.JpaRepository;
import org.springframework.data.jpa.repository.Modifying;
import org.springframework.data.jpa.repository.Query;
import org.springframework.stereotype.Repository;

import javax.transaction.Transactional;
import java.util.List;
import java.util.Optional;

@Repository
public interface VoterIdRequestDetailsRepository extends JpaRepository<VoterIdRequestDetails,Integer> {
    @Query("from VoterIdRequestDetails where status=:status")
    List<VoterIdRequestDetails> findAllByStatus(String status);

    @Modifying
    @Transactional
    @Query("delete VoterIdRequestDetails where userId=:userId")
    void deleteById(String userId);

    @Query("from VoterIdRequestDetails where userId=:userId")
    Optional<VoterIdRequestDetails> findById(String userId);
}

```

VoterService.java

```

package com.team33.evotingsystem.service;

import com.team33.evotingsystem.model.ElectionDetails;
import com.team33.evotingsystem.repository.ElectionDetailsRepository;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;

import java.util.List;
import java.util.Optional;

@Service
public class VoterService {

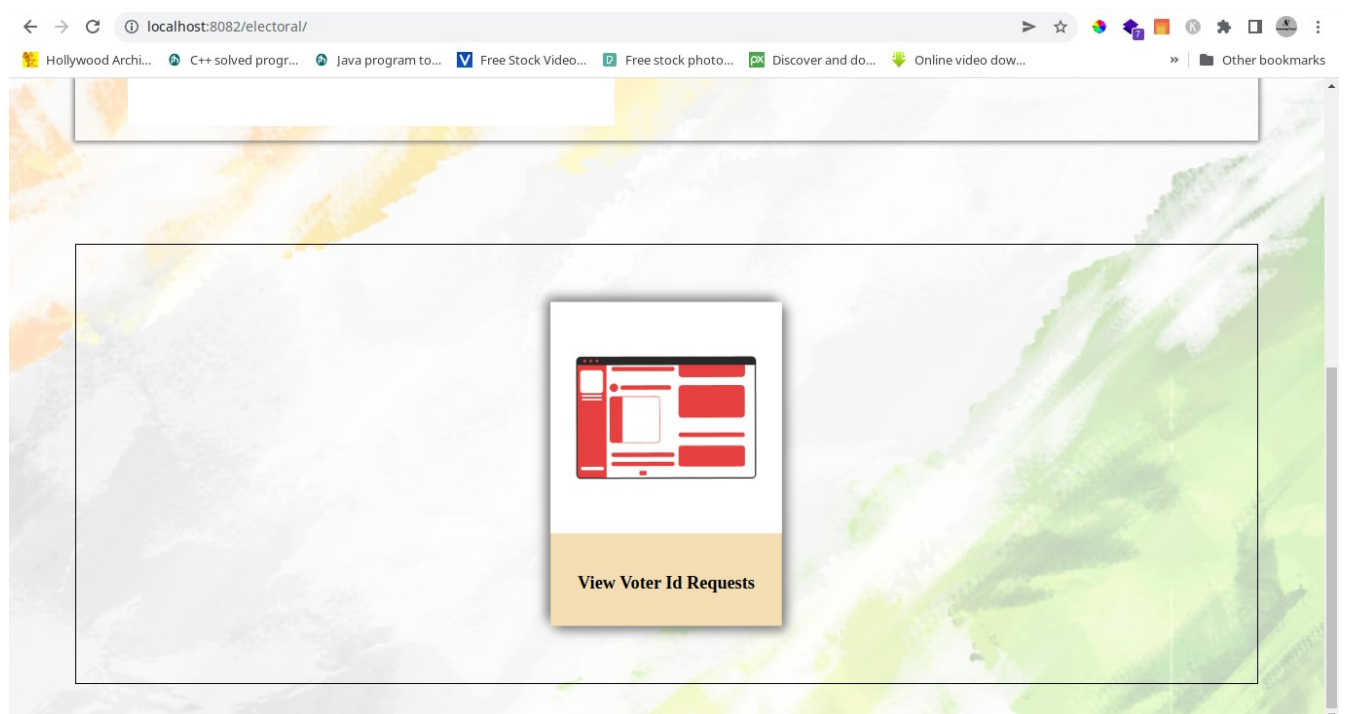
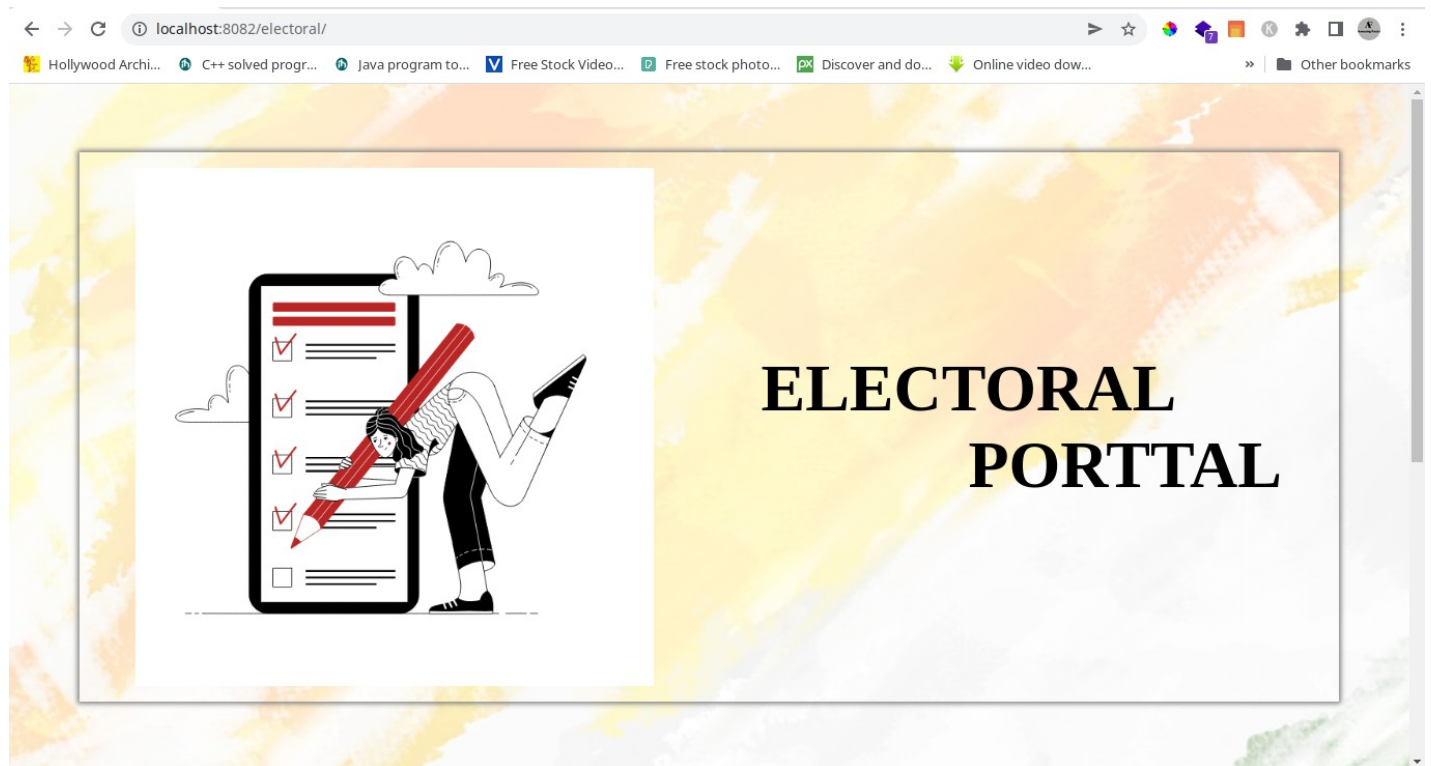
    @Autowired
    ElectionDetailsRepository electionDetailsRepository;

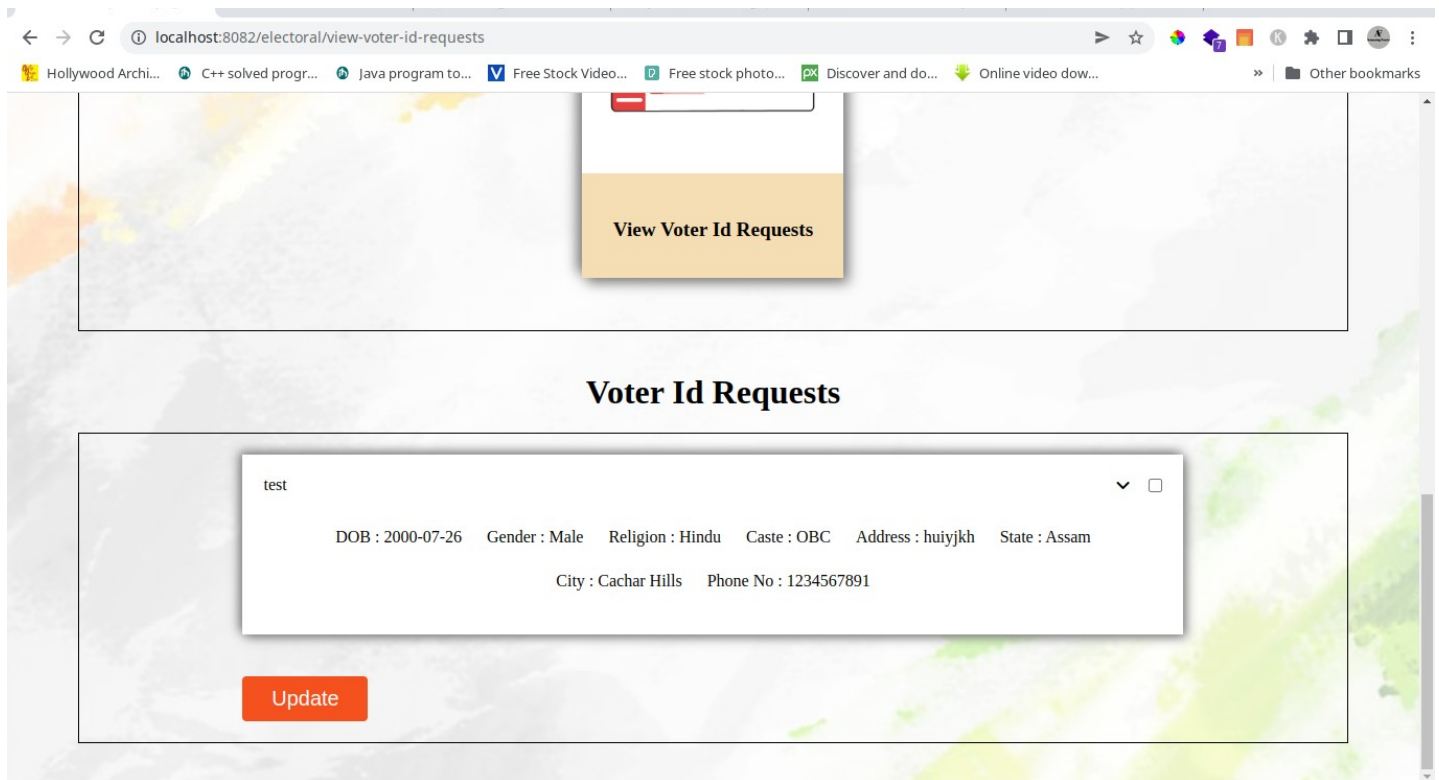
    public boolean save(ElectionDetails details) {
        return electionDetailsRepository.save(details).getId() > 0;
    }

    public List<ElectionDetails> recentElectionDetails() {
        return electionDetailsRepository.recentElectionDetails();
    }
}

```


4. Electoral Page





> Front-End

electoral-home.html [code] :

```
<!DOCTYPE html>
<html lang="en" xmlns:th="http://www.thymeleaf.org">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Electoral| Home page</title>
  <link rel="stylesheet" href="/css/electoral-home.css" th:href="@{/css/electoral-home.css}">
</head>
<body>
  <div class="header-container">
    <div class="header-card">
      <div class="part-1">
        
      </div>
      <div class="part-2">
        <p>ELECTORAL</p>
        <p id="portal">PORTTAL</p>
      </div>
    </div>
  </div>
</body>
</html>
```

```

<div class="card-container">
  <div class="cards">
    <div class="card" th:onclick="'| window.location.href='/electoral/view-voter-id-requests'| '>
      
      <p>View Voter Id Requests</p>
    </div>
  </div>
</div>

<div class="show-details" th:if="{show}">
  <h1>Voter Id Requests</h1>
  <h3 style="color:green;" th:if="{param.success}">Successfully Generated!</h3>
  <div class="details-cards">
    <form th:action="@{/electoral/generate-voter-id}" th:object="{voterIdRequestDto}"
method="post">
      <div class="details-card" th:each="user : {userDetails}">
        <div class="card-wrapper">
          <p th:text="{user.firstName + ' ' + user.lastName}"></p>
          <div class="buttons">
            <i class="fa-solid fa-angle-down"></i>
            <input type="checkbox" name="userId" th:value="{user.userId}" th:field="*{userId}">
          </div>
        </div>
        <div class="card-content">
          <div class="datas">
            <div class="data">
              <span>DOB : </span>
              <span th:text="{user.dob}"></span>
            </div>
            <div class="data">
              <span>Gender : </span>
              <span th:text="{user.gender}"></span>
            </div>
            <div class="data">
              <span>Religion : </span>
              <span th:text="{user.religion}"></span>
            </div>
            <div class="data">
              <span>Caste : </span>
              <span th:text="{user.caste}"></span>
            </div>
            <div class="data">
              <span>Address : </span>
              <span th:text="{user.address}"></span>
            </div>
            <div class="data">
              <span>State : </span>

```

```

        <span th:text="{user.state}"></span>
    </div>
    <div class="data">
        <span>City : </span>
        <span th:text="{user.city}"></span>
    </div>
    <div class="data">
        <span>Phone No : </span>
        <span th:text="{user.phoneNo}"></span>
    </div>
</div>
</div>
<div>
    <button type="submit" class="button"><span>Update </span></button>
</form>
</div>
</div>
<script src="https://kit.fontawesome.com/902e5a7c60.js" crossorigin="anonymous"></script>
<script src="electoral-home.js" th:src="@{/js/electoral-home.js}"></script>
</body>
</html>

```

electoral-home.css [code] :

```

* {
margin: 0;
padding: 0;
box-sizing: border-box;
}

body {
background: linear-gradient(rgba(255,255,255,.7), rgba(255,255,255,.7)), url('/images/login-bg.jpeg');
background-repeat: no-repeat;
background-size: cover;
}

.header-container {
width: 100%;
height: 100vh;
display: flex;
align-items: center;
justify-content: center;
}

.header-card {
width: 90%;
height: 80%;

```

```
background: transparent;
box-shadow: 0px 0px 5px 2px gray;
display: flex;
justify-content: center;
align-items: center;
}

.header-card .part-1 {
width: 100%;
height: 100%;
display: flex;
justify-content: center;
align-items: center;
}

.header-card .part-2 {
width: 100%;
height: 100%;
display: flex;
justify-content: center;
align-items: flex-start;
flex-direction: column;
}

.part-1 img {
width: 500px;
height: 500px;
/* box-shadow: #ddd 0 0 10px; */
}

.part-2 p {
font-size: 4rem;
font-weight: bolder;
}

.part-2 p {
margin-left: 50px;
}

.part-2 #portal {
margin-left: 250px;
}

.card-container {
width: 100%;
height: fit-content;
margin: 20px auto;
display: flex;
align-items: center;
```

```
    justify-content: center;
}

.card-container .cards {
    width: 90%;
    height: fit-content;
    margin: 20px auto;
    display: flex;
    justify-content: center;
    align-items: center;
    flex-wrap: wrap;
    border: 1px solid black;
}

.cards .card {
    width: 250px;
    height: 350px;
    margin: 50px auto;
    background-color: wheat;
    text-align: center;
    box-shadow: 5px 5px 12px gray, -5px -5px 12px gray;
    cursor: pointer;
    transition: all .5s;
}

.cards .card:hover {
    transform: scale(.95);
}

.card img {
    width: 250px;
    height: 250px;
}

.card p {
    width: 250px;
    height: 100px;
    font-size: larger;
    font-weight: bolder;
    display: flex;
    justify-content: center;
    align-items: center;
    color: black;
}

.show-details {
    width: 100%;
    height: fit-content;
    margin: 20px auto;
```

```
display: flex;
align-items: center;
justify-content: center;
flex-direction: column;
}

.show-details .details-cards {
width: 90%;
height: fit-content;
margin: 20px auto;
display: flex;
justify-content: center;
align-items: center;
flex-wrap: wrap;
border: 1px solid black;
}

.details-cards .details-card {
width: 900px;
height: fit-content;
padding: 10px;
background-color: white;
margin: 20px auto;
box-shadow: 3px 3px 10px gray, -3px -3px 10px gray;
}

.details-card .card-wrapper {
width: 100%;
height: 100%;
display: flex;
justify-content: space-between;
align-items: center;
margin: 10px auto;
}

.card-wrapper p {
margin-left: 10px;
}

.card-wrapper .buttons {
width: 5%;
height: 100%;
display: flex;
justify-content: space-between;
align-items: center;
margin-right: 10px;
}

.buttons i {
```

```
    cursor: pointer;
}

.card-content {
    height: 0;
    opacity: 0;
    margin: 0;
    transition: all ease .25s;
    /*display: flex;
    justify-content:center;
    align-items: center;*/
}

.card-content .datas {
    width: 100%;
    height: 100%;
    display: flex;
    justify-content: center;
    align-items: center;
    flex-wrap: wrap;
}

.datas .data {
    margin: 12px;
}

.show {
    height: 100%;
    opacity: 1;
    margin: 20px auto;
}

.button {
    border-radius: 4px;
    background-color: #f4511e;
    border: none;
    color: #FFFFFF;
    text-align: center;
    font-size: 20px;
    padding: 10px;
    width: 120px;
    transition: all 0.5s;
    cursor: pointer;
    margin: 20px auto;
}

.button span {
    cursor: pointer;
    display: inline-block;
```



```

position: relative;
transition: 0.5s;
}

.button span:after {
content: '\00bb';
position: absolute;
opacity: 0;
top: 0;
right: -20px;
transition: 0.5s;
}

.button:hover span {
padding-right: 25px;
}

.button:hover span:after {
opacity: 1;
right: 0;
}

```

electoral-home.js

```

let showDetails = document.getElementsByClassName('fa-solid');

for (let index = 0; index < showDetails.length; index++) {
  showDetails[index].addEventListener('click', function(e) {
    e.preventDefault();
    const cardContent = document.getElementsByClassName('card-content');
    cardContent[index].classList.toggle('show');
  })
}

```

> Back-End

ElectoralController.java [code] :

```

package com.team33.evotingsystem.controller;

import com.team33.evotingsystem.dto.VoterIdRequestDto;
import com.team33.evotingsystem.service.LoginRegistrationService;
import com.team33.evotingsystem.service.VoterIdRequestDetailsService;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Controller;
import org.springframework.ui.Model;

```

```

import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.ModelAttribute;
import org.springframework.web.bind.annotation.PostMapping;

@Controller
public class ElectoralController {

    @Autowired
    VoterIdRequestDetailsService voterIdRequestDetailsService;
    @Autowired
    LoginRegistrationService loginRegistrationService;

    @GetMapping("/electoral")
    public String electoralPage() {
        return "electoral-home";
    }

    @GetMapping("/electoral/view-voter-id-requests")
    public String viewVoterIdRequests(Model model) {
        model.addAttribute("userDetails", voterIdRequestDetailsService.findAllUserDetails());
        model.addAttribute("show", true);
        model.addAttribute("voterIdRequestDto", new VoterIdRequestDto());
        return "electoral-home";
    }

    @PostMapping("/electoral/generate-voter-id")
    public String generateVoterId(@ModelAttribute("voterIdRequestDto") VoterIdRequestDto
voterIdRequests, Model model) {
        voterIdRequests.getUserId().forEach(userid -> {
            String newVoterId = voterIdRequestDetailsService.generateNewVoterId();
            boolean result = loginRegistrationService.addVoterIdByUserId(newVoterId, userid);
            if(result) {
                voterIdRequestDetailsService.deleteByUserId(userid);
            }
        });

        model.addAttribute("userDetails", voterIdRequestDetailsService.findAllUserDetails());
        model.addAttribute("show", true);
        model.addAttribute("voterIdRequestDto", new VoterIdRequestDto());
        return "redirect:/electoral/view-voter-id-requests";
    }
}

```

ElectoralService.java [code] :

```
package com.team33.evotingsystem.service;

import com.team33.evotingsystem.model.UserDetails;
import com.team33.evotingsystem.model.VoterIdRequestDetails;
import com.team33.evotingsystem.repository.UserDetailsRepository;
import com.team33.evotingsystem.repository.VoterIdRequestDetailsRepository;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;

import java.time.LocalDate;
import java.util.ArrayList;
import java.util.List;
import java.util.Optional;
import java.util.Random;

@Service
public class VoterIdRequestDetailsService {
    @Autowired
    VoterIdRequestDetailsRepository voterIdRequestDetailsRepository;
    @Autowired
    UserDetailsRepository userDetailsRepository;

    // retrieve all voterId requests
    public List<VoterIdRequestDetails> findAllVoterIdRequest(String status) {
        return voterIdRequestDetailsRepository.findAllByStatus(status);
    }

    // generate new voterId
    public String generateNewVoterId() {
        return System.currentTimeMillis() + "" + LocalDate.now().getYear() + LocalDate.now().getMonth()
            + new Random(1000).nextInt();
    }

    // user details who requested for voter id
    public List<UserDetails> findAllUserDetails() {
        List<VoterIdRequestDetails> vDetails = voterIdRequestDetailsRepository.findAll();
        List<UserDetails> filteredList = new ArrayList<>();
        for(VoterIdRequestDetails v:vDetails) {
            filteredList.add(userDetailsRepository.findById(v.getUserId()).get());
        }
        return filteredList;
    }

    public void deleteById(String id) {
        voterIdRequestDetailsRepository.deleteById(id);
    }
}
```

```
public Optional<VoterIdRequestDetails> findById(String userId) {  
    return voterIdRequestDetailsRepository.findById(userId);  
}  
  
public boolean save(VoterIdRequestDetails details) {  
    return voterIdRequestDetailsRepository.save(details).getId() > 0;  
}  
}
```