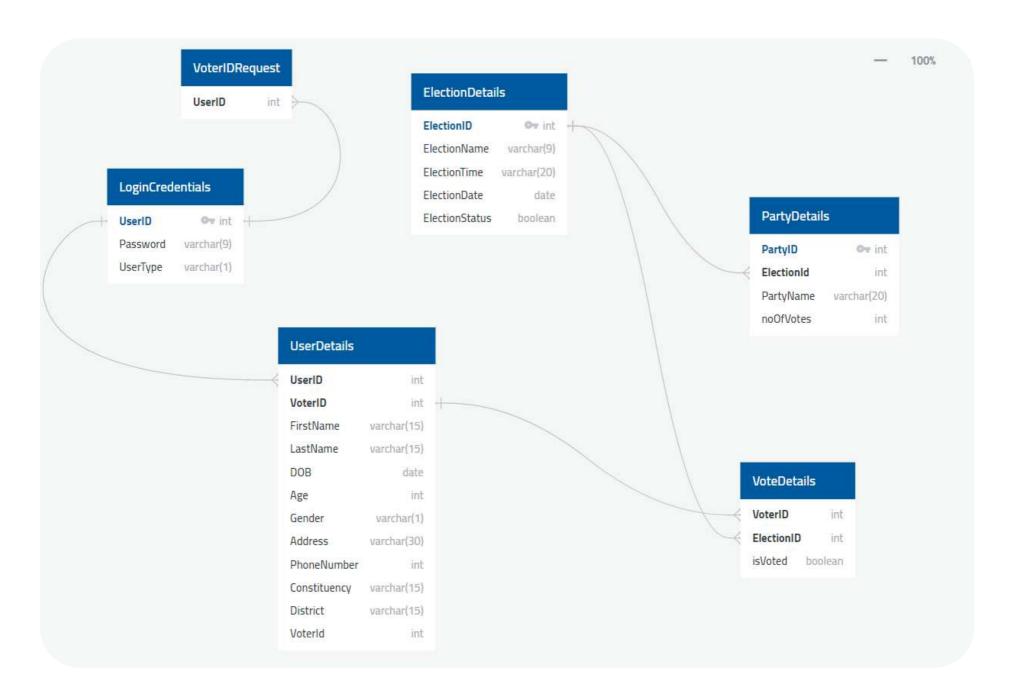
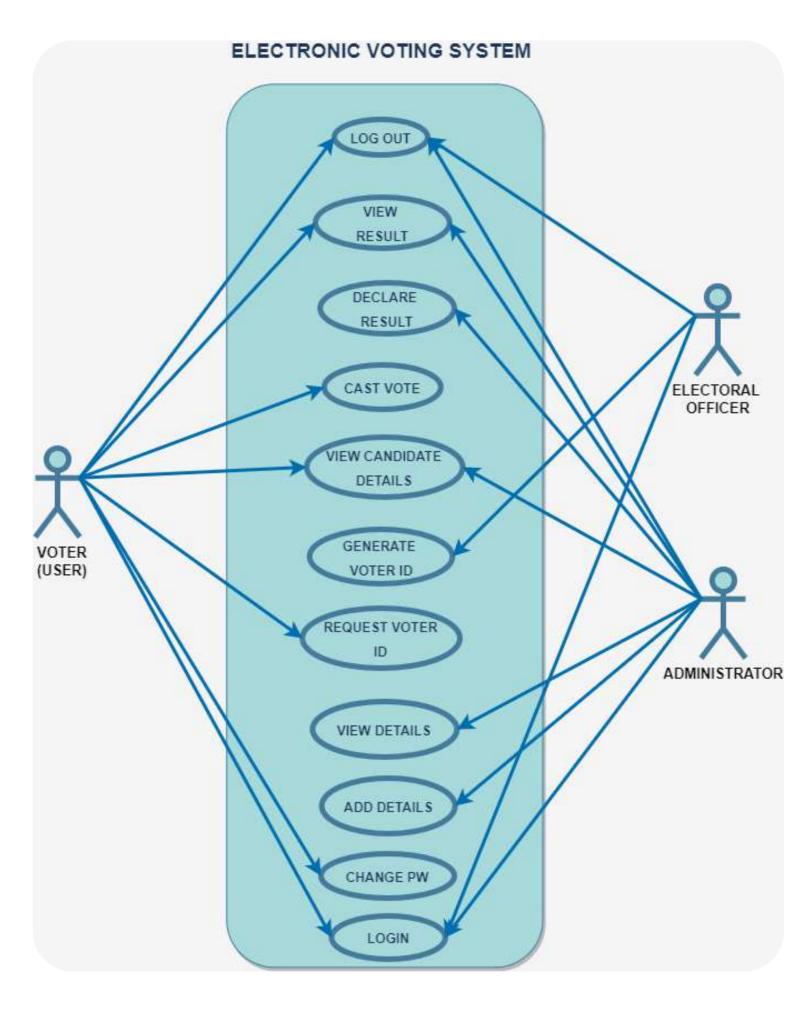
# TEAM 4 ELECTRONIC VOTING SYSTEM

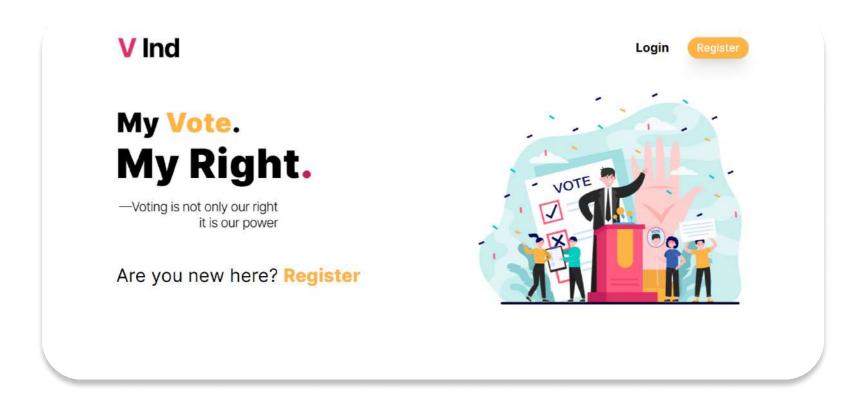
ADID	Name	Requirement	
SH40114838	Shoubhik	us001,AD003, AD005,AD007	
KA40115193	Keerthi	AD-010,US-007	
AM40116111	Koushik	EX-001	
SU40115879	Suraj	AA-001,AD-001, AD-002,AD-004, AD-006,AD-007, AD-008,EO-001, EO-002,US-002, US-003,US-004, US-006	

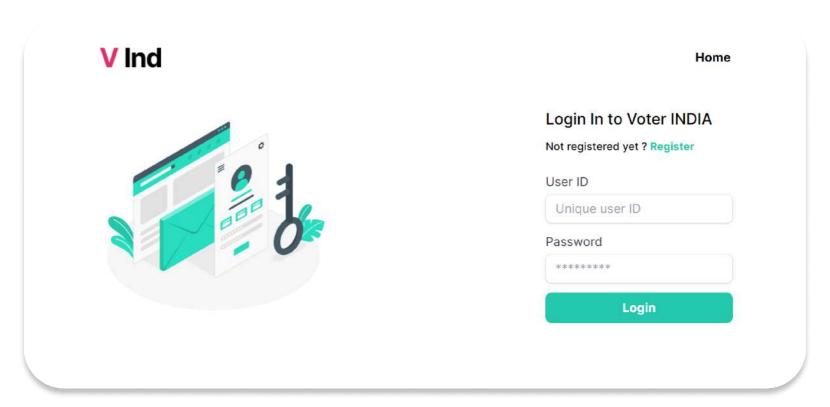
## **DB VIEW & USE CASE**

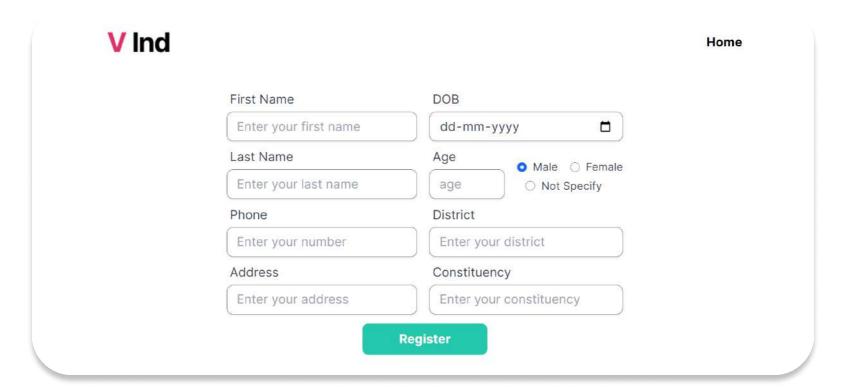


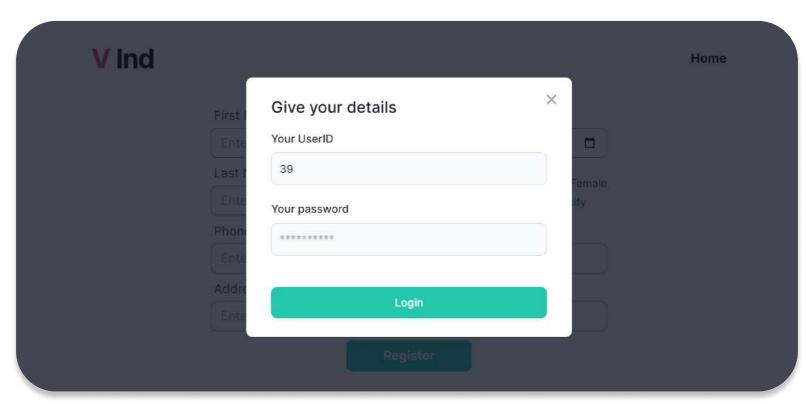


## **Landing Page**









## **Landing Page Controller**

```
// ROOT PAGE
@RequestMapping("/")
public String index() {
    return "index";
}

// LOGIN PAGE
@RequestMapping("/loginPage")
public String loginPage() {
    return "loginPage";
}

// REGISTER PAGE
@RequestMapping("/registerPage")
public ModelAndView registerPage() {

    // Create a new object to Login Credentials
    LoginCredentials loginCred = new LoginCredentials();

    // Set the userType to 'U' for User
    loginCred.setUserType('U');

    // Save the object to the database using DATA JPA
    LoginCredentials registerCred = loginRepo.save(loginCred);

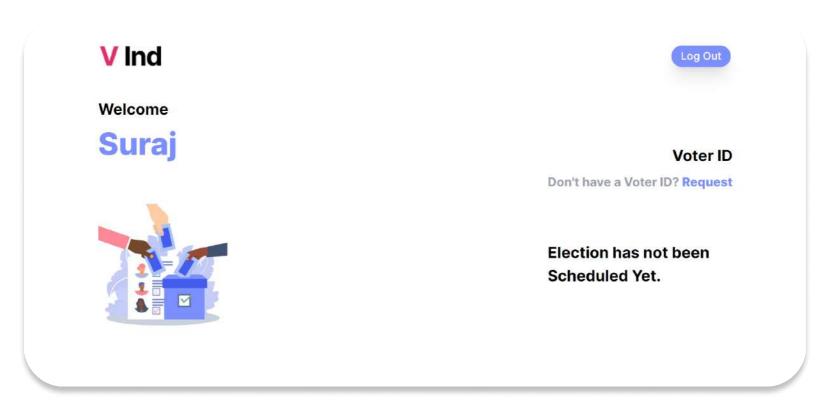
// Return the register page with unique user id
    ModelAndView mv = new ModelAndView("registerPage");
    mv.addObject("userid", registerCred.getUserId());

    return mv;
}
```

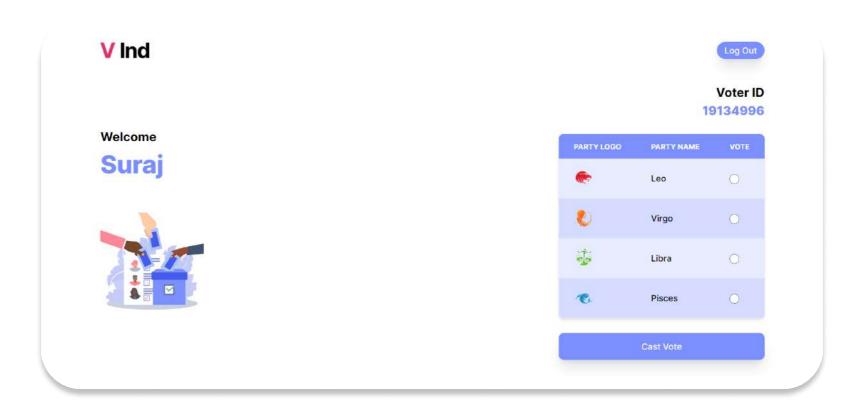
```
@RequestMapping("/login")
    public ModelAndView login(LoginCredentials loginCred) {
        Optional<LoginCredentials> currentLoginCred = loginRepo.findById(loginCred.getUserId());
        if (currentLoginCred.isPresent()) {
            if (currentLoginCred.get().getPassword().equals(loginCred.getPassword())) {
                return redirectUserToDestination(currentLoginCred.get());
               ModelAndView mv = new ModelAndView("loginPage");
                mv.addObject("error", "Invalid Password");
                return mv;
           ModelAndView mv = new ModelAndView("loginPage");
           mv.addObject("error", "Invalid UserId");
    @RequestMapping("/register")
    public ModelAndView register(UserDetails user, int userid, String password) {
        LoginCredentials loginCred = new LoginCredentials(userid, password, 'U');
        loginRepo.save(loginCred);
        user.setUserId(userid);
        userRepo.save(user);
       ModelAndView mv = new ModelAndView("loginPage");
        mv.add0bject("msg", "User Registered Successfully");
        return mv;
```

```
. .
    public ModelAndView redirectUserToDestination(LoginCredentials lc) {
        ModelAndView mv = new ModelAndView();
        UserDetails userDetail = userRepo.findById(lc.getUserId()).get();
        mv.addObject("userDetail", userDetail);
        if (lc.getUserType() == 'A') {
           mv.setViewName("admin/homePage");
            return mv;
        } else if (lc.getUserType() == 'E') {
            Iterable<VoterIdRequest> pending = voterIdRepo.findAll();
            mv.addObject("pending", pending);
           mv.setViewName("electoral/homePage");
            if (userDetail.getVoterId() != 0 && userDetail.getVoterId() != 1) {
                    VoteDetails voteDetails = voteRepo.findById(userDetail.getVoterId()).get();
                    ElectionDetails electionDetails =
electionRepo.findById(voteDetails.getElectionId()).get();
                    mv.addObject("electionDetails", electionDetails);
                    mv.addObject("electionDetails", null);
           mv.setViewName("voter/homePage");
```

## **Voter Portal**





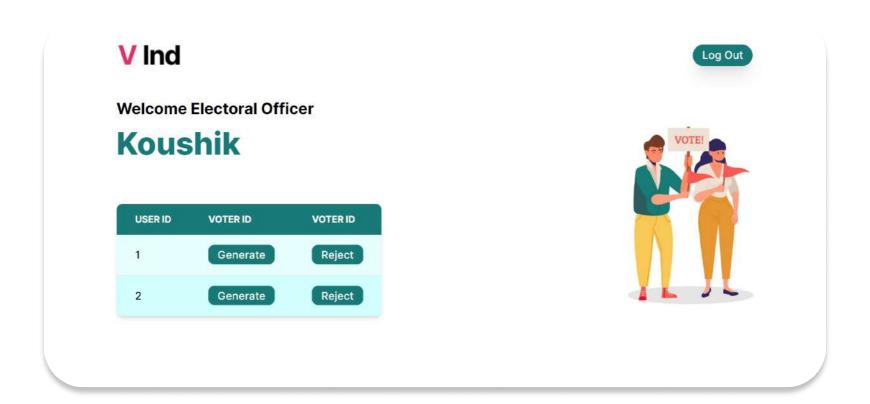




## **Voter Controller**

```
@RequestMapping("/requestVoterId")
    public ModelAndView requestVoterId(@RequestParam int userId) {
        ModelAndView mv = new ModelAndView();
        UserDetails userDetail = userRepo.findById(userId).get();
        userDetail.setVoterId(1);
        userRepo.save(userDetail);
       mv.addObject("userDetail", userDetail);
       mv.setViewName("voter/homePage");
       return mv;
    @RequestMapping("/voteAction")
    public ModelAndView voteAction(@RequestParam int userId, @RequestParam int electionId) {
       ModelAndView mv = new ModelAndView();
       UserDetails userDetail = userRepo.findById(userId).get();
        VoteDetails voteDetails = voteRepo.findById(userDetail.getVoterId()).get();
        boolean isVoted = voteDetails.isVoted();
        Iterable< PartyDetails> partyList = partyRepo.findByElectionId(electionId);
        mv.add0bject("partyList", partyList);
       mv.addObject("electionId", electionId);
       mv.addObject("isVoted", isVoted);
       mv.addObject("userDetail", userDetail);
       mv.setViewName("voter/votingPage");
    @RequestMapping("/castVote")
    public ModelAndView castVoter(@RequestParam int userId, @RequestParam int electionId,
@RequestParam int partyId) {
        ModelAndView mv = new ModelAndView();
        UserDetails userDetail = userRepo.findById(userId).get();
        VoteDetails voteDetails = voteRepo.findById(userDetail.getVoterId()).get();
        voteDetails.setVoted(true);
        voteRepo.save(voteDetails);
        mv.addObject("isVoted", voteDetails.isVoted());
        PartyDetails = partyRepo.findById(partyId).get();
        partyDetails.setNoOfVotes(partyDetails.getNoOfVotes() + 1);
        partyRepo.save(partyDetails);
        if (userDetail.getVoterId() != 0 && userDetail.getVoterId() != 1) {
                ElectionDetails electionDetails =
electionRepo.findById(voteDetails.getElectionId()).get();
               mv.addObject("electionDetails", electionDetails);
            } catch (Exception e) {
               mv.addObject("electionDetails", null);
        mv.addObject("msg", "Voted successfully");
       mv.addObject("userDetail", userDetail);
       mv.setViewName("voter/homePage");
```

## Electoral Officer Portal



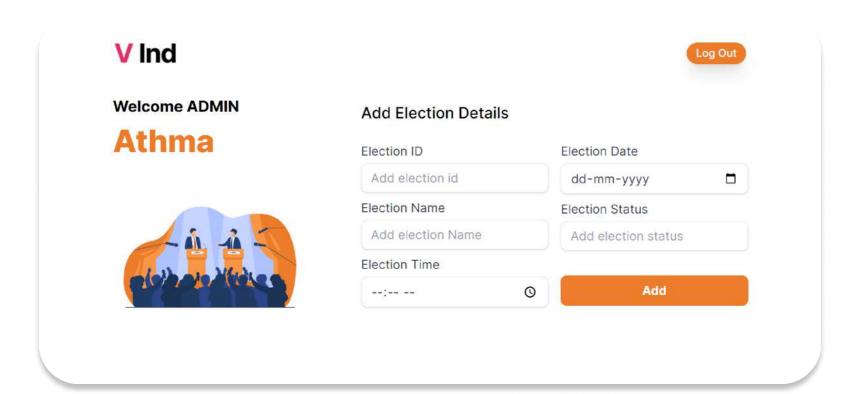
### **EO Controller**

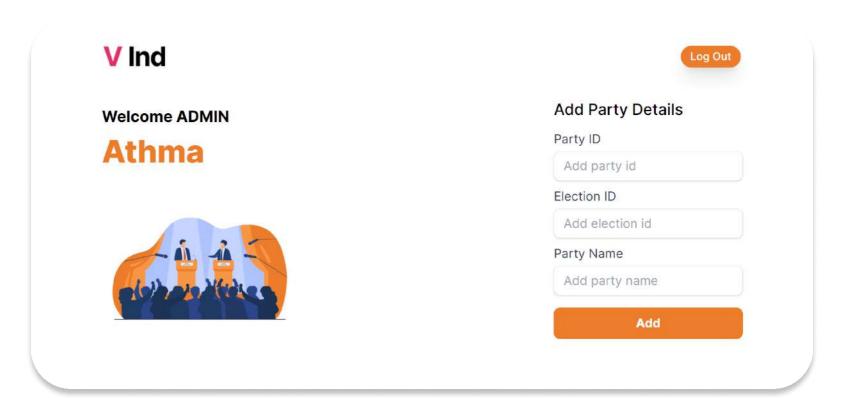
```
@RequestMapping("generateVoterId")
    public ModelAndView generateVoterId(@RequestParam int userId, @RequestParam int currentUserId,
            @RequestParam Boolean reject) {
        ModelAndView mv = new ModelAndView();
        if (!reject) {
            int voterId = 0;
                 voterId = (int) (Math.random() * 100000000);
            } while (voterIdRepo.findById(voterId).isPresent());
            UserDetails generatedVoterUser = userRepo.findById(userId).get();
            generatedVoterUser.setVoterId(voterId);
            userRepo.save(generatedVoterUser);
        voterIdRepo.deleteById(userId);
        UserDetails userDetail = userRepo.findById(currentUserId).get();
        mv.addObject("userDetail", userDetail);
        Iterable<VoterIdRequest> pending = voterIdRepo.findAll();
        mv.addObject("pending", pending);
        if(!reject) mv.addObject("msg", "Voter ID generated successfully");
else mv.addObject("msg", "Voter ID rejected successfully");
        mv.setViewName("electoral/homePage");
        return mv;
```

## **Admin Portal**









#### **V** Ind

**Welcome ADMIN** 

#### **Athma**



#### Log Out

#### Add Candidate Details

Voter ID

Add voter id

Election ID

Add election id

Add

#### **V** Ind

Welcome ADMIN





ELECTION ID	ELECTION NAME	ELECTION TIME	ELECTION DATE	ELECTION ACTION
1	СМ	16:00	2222-02- 02	Result
2	PM	14:00	2022-06- 01	Declare

#### **V** Ind

Welcome ADMIN

**Athma** 



#### Log Out

Log Out

PARTY ID ELECTION ID PARTY NAME NO OF VOTES

1 2 Leo 0

1 2 Leo 0
2 2 Virgo 0
3 2 Libra 0
4 2 Pisces 0

#### **V** Ind

**Welcome ADMIN** 

**Athma** 





Log Out

VOTER ID	ELECTION ID
11862418	2
11946745	2
19134996	2



## **Admin Controller**

```
@RequestMapping("addElection")
    public ModelAndView addElection(@RequestParam int currentUserId) {
        ModelAndView mv = new ModelAndView();
       UserDetails currentUser = userRepo.findById(currentUserId).get();
        mv.addObject("userDetail", currentUser);
       mv.setViewName("admin/add/electionDetails");
        return mv;
   @RequestMapping("addElectionDetails")
    public ModelAndView addElectionDetails(@RequestParam int currentUserId, ElectionDetails
electionDetails){
        ModelAndView mv = new ModelAndView();
        electionRepo.save(electionDetails);
        UserDetails currentUser = userRepo.findById(currentUserId).get();
        mv.addObject("userDetail", currentUser);
        mv.add0bject("msg", "Election details added successfully");
        mv.setViewName("admin/homePage");
        return mv;
    @RequestMapping("addParty")
    public ModelAndView addParty(@RequestParam int currentUserId) {
        ModelAndView mv = new ModelAndView();
        UserDetails currentUser = userRepo.findById(currentUserId).get();
        mv.addObject("userDetail", currentUser);
        mv.setViewName("admin/add/partyDetails");
        return mv;
    @RequestMapping("addPartyDetails")
    public ModelAndView addPartyDetails(@RequestParam int currentUserId, PartyDetails partyDetails){
        ModelAndView mv = new ModelAndView();
        partyRepo.save(partyDetails);
        UserDetails currentUser = userRepo.findById(currentUserId).get();
        mv.addObject("userDetail", currentUser);
        mv.add0bject("msg", "Party details added successfully");
        mv.setViewName("admin/homePage");
        return mv;
   @RequestMapping("addCandidate")
    public ModelAndView addCandidate(@RequestParam int currentUserId) {
        ModelAndView mv = new ModelAndView();
        UserDetails currentUser = userRepo.findById(currentUserId).get();
        mv.addObject("userDetail", currentUser);
        mv.setViewName("admin/add/candidateDetails");
        return mv;
   @RequestMapping("addCandidateDetails")
    public ModelAndView addCandidateDetails(@RequestParam int currentUserId, VoteDetails voteDetails){
        ModelAndView mv = new ModelAndView();
        voteDetails.setVoted(false);
        voteRepo.save(voteDetails);
        UserDetails currentUser = userRepo.findById(currentUserId).get();
        mv.addObject("userDetail", currentUser);
        mv.addObject("msg", "Vote details added successfully");
        mv.setViewName("admin/homePage");
        return mv;
```

```
. .
    @GetMapping("allVoter")
    public ModelAndView showAllVoterDetails(@RequestParam int currentUserId){
        Iterable<UserDetails> allUser = userRepo.findAll();
        ModelAndView mv = new ModelAndView("admin/view/userDetails");
        mv.addObject("allUser", allUser);
        UserDetails currentUser = userRepo.findById(currentUserId).get();
        mv.addObject("currentUser", currentUser);
        return mv;
    @GetMapping("allElection")
    public ModelAndView showAllElectionDetails(@RequestParam int currentUserId){
        Iterable<ElectionDetails> electionDetails = electionRepo.findAll();
        ModelAndView mv = new ModelAndView("admin/view/electionDetails");
        mv.addObject("allElection", electionDetails);
        UserDetails currentUser = userRepo.findById(currentUserId).get();
        mv.addObject("currentUser", currentUser);
        return mv;
    @GetMapping("allParty")
    public ModelAndView showAllPartyDetails(@RequestParam int currentUserId){
        Iterable<PartyDetails> partyDetails = partyRepo.findAll();
        ModelAndView mv = new ModelAndView("admin/view/partyDetails");
        mv.addObject("allParty", partyDetails);
        UserDetails currentUser = userRepo.findById(currentUserId).get();
        mv.addObject("currentUser", currentUser);
    @GetMapping("allCandidate")
    public ModelAndView showAllCandidateDetails(@RequestParam int currentUserId){
        Iterable<VoteDetails> voteDetails = voteRepo.findAll();
        ModelAndView mv = new ModelAndView("admin/view/candidateDetails");
        mv.addObject("allCandidate", voteDetails);
        UserDetails currentUser = userRepo.findById(currentUserId).get();
        mv.addObject("currentUser", currentUser);
```

```
. .
   @RequestMapping("addVoterRequest")
   public ModelAndView addVoterRequest(@RequestParam int userId, @RequestParam int currentUserId){
       ModelAndView mv = new ModelAndView();
       VoterIdRequest voterIdRequest = new VoterIdRequest();
       voterIdRequest.setUserId(userId);
       UserDetails currentUser = userRepo.findById(currentUserId).get();
       mv.addObject("userDetail", currentUser);
       mv.addObject("msg", "Voter ID Request sent to EO");
       mv.setViewName("admin/homePage");
       return mv;
   @GetMapping("declareResult")
   public ModelAndView declareResult(@RequestParam int electionId){
       ModelAndView mv = new ModelAndView("admin/view/resultPage");
       PartyDetails = partyRepo.findMaxByNoOfVotes();
       ElectionDetails = electionRepo.findById(electionId).get();
       electionDetails.setElectionStatus(true);
       electionRepo.save(electionDetails);
       mv.addObject("partyDetails", partyDetails);
```