

# Voting System Project

## About Project

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The project '**Voting System**' is basically a capstone project of PHP with MySQL database. The motive behind to develop this project is to learn PHP as a backend technology. This project can perform CRUD operation on database.

I am Pragyan Raj. I have developed this project as developer during learning phase of PHP. In this document I'll explain about the project and its modules.

This project contains mainly three modules: Admin, Group and User.

### Module 1: Admin

- Admin have login credentials which is hard coded in database for secure login.
- Admin can conduct voting by register group.
- Admin have facility to register group, update group details and delete group details. But for update and delete group details need government id which is unique.
- Admin have facility to update user details and delete user details. But for update and delete details of user admin need voter id which is unique.
- Admin have facility to see result.

### Module 2: Group

- Group can register by contacting admin.
- Group registration need government id which unique id for performing CRUD operation on group.
- Group can update their details by contacting admin.
- Group can delete their details by contacting admin.

### Module 3: User

- User have facility to register themselves.
- User registration need voter id which unique id for performing CRUD on user.
- User can login and go for voting to Voter Voting dashboard.
- User can vote to the registered group only once.
- User can update their details by contacting admin.
- User can delete their details by contacting admin.
- If user have already voted then he/she can't vote again.

### Some Basic Features:

- Admin can update and delete Notification.
- User and group can see the updated notification.
- User and groups can see the list of registered groups.

# Project

## Voting System

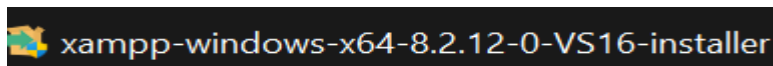
### Run Procedure

To run this project you have to do some basic setup on your system. I'll elaborate each step you have to just follow that one by one. I using windows operating system. So may be in different operating system have different setup of the tool named XAMPP which is required to run code of PHP on local system. Please check PHP tool XAMPP setup videos or documents for that. In this document I'll explain the steps to execute this project on your own system.

Let's begin,

Steps:

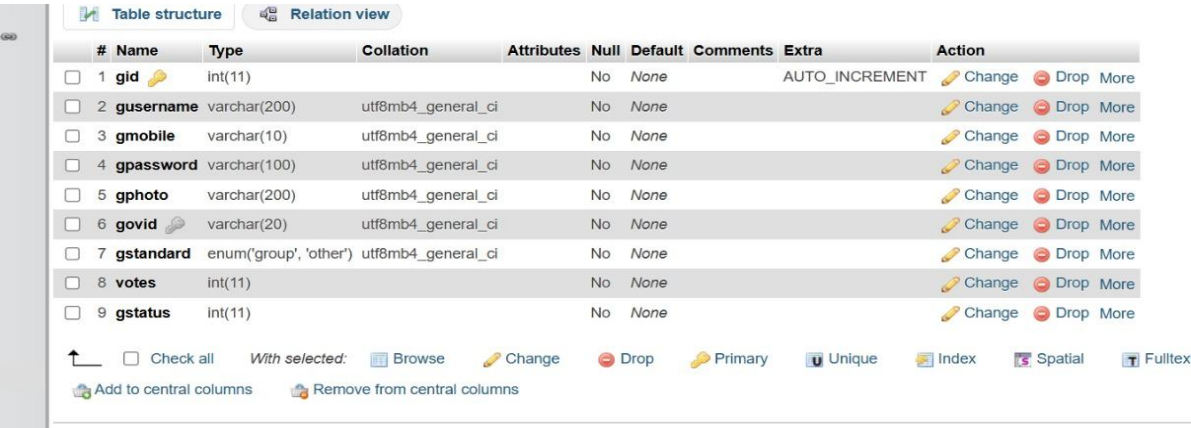
1. Get download the zip file from Github.
  - a. Go to the repository page. ([Git link](#))
  - b. Click the green “Code” button and download zip file.
2. Extract project folder and keep it where you want.
3. Go to browser and search for XAMPP download and download it for your operating system.(Try to download Xampp installer).



4. When you click on it will ask for installation process just start the process and please ensure that during the process it will ask which tools do you want to install ? You have to just make sure you click on Apache and MySQL db.
5. After successful installation a Xampp controller will pop on your screen, if you click on launch after installation. Minimize it for some time.



6. Now go to Xampp folder where you have located the folder during installation.
  7. Open Xampp folder and search for 'htdocs' folder. Thats very important folder.
  8. Open htdocs.
  9. Inside htdocs keep the extracted project file (not zip file) which we have done in step 2.
  10. Now open Xampp controller which we minimize in step 5.
  11. In Xampp controller there are five options but we need only 2. you have to click on start button and start both.
    - a. Apache (For localhosting Network Server)
    - b. MySql ( For Database)
  12. Now in Xampp controller panel click on 'admin' of MySQL option (It will open in browser).
  13. Create a database in MySql.
    - (a) Click on new (Left side panel) named schema 'votingsystemdb'.
    - (b) We need 3 table. Create one by one.
    - (c) admindata, userdata and groupdata
- Note: keep all table name in small alphabate or keep it similar.
14. Group data: For 'groupdata' tablename contents and make it similar. Please use this chart to make it use similar NAME ,TYPE and SIZE (For id click on A.I auto incremented and For 'govid' id choose UNIQUE Key constraint).



#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	gid	int(11)			No	None		AUTO_INCREMENT	Change Drop More
2	gusername	varchar(200)	utf8mb4_general_ci		No	None			Change Drop More
3	gmobile	varchar(10)	utf8mb4_general_ci		No	None			Change Drop More
4	gpassword	varchar(100)	utf8mb4_general_ci		No	None			Change Drop More
5	gphoto	varchar(200)	utf8mb4_general_ci		No	None			Change Drop More
6	govid	varchar(20)	utf8mb4_general_ci		No	None			Change Drop More
7	gstandard	enum('group', 'other')	utf8mb4_general_ci		No	None			Change Drop More
8	votes	int(11)			No	None			Change Drop More
9	gstatus	int(11)			No	None			Change Drop More

☐ Check all    With selected:    Browse    Change    Drop    Primary    Unique    Index    Spatial    Fulltext  
 Add to central columns    Remove from central columns

15. Admin data (Table): Here you can see username ,password and mobile is given. We passed it hard coded data here. For that you have to click on SQL option and inside that there is option INSERT just click on it and pass the value of admin and click on go.



16. User data (Table): Table name 'userdata'. Value will be taken from user when you perform operation.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1 id	int(11)			No	None		AUTO_INCREMENT	Change  Drop  More
<input type="checkbox"/>	2 username	varchar(100)	utf8mb4_general_ci		No	None			Change  Drop  More
<input type="checkbox"/>	3 mobile	varchar(10)	utf8mb4_general_ci		No	None			Change  Drop  More
<input type="checkbox"/>	4 password	varchar(100)	utf8mb4_general_ci		No	None			Change  Drop  More
<input type="checkbox"/>	5 voterid	varchar(20)	utf8mb4_general_ci		No	None			Change  Drop  More
<input type="checkbox"/>	6 photo	varchar(200)	utf8mb4_general_ci		No	None			Change  Drop  More
<input type="checkbox"/>	7 gender	enum('Male', 'Female', 'Other')	utf8mb4_general_ci		No	None			Change  Drop  More
<input type="checkbox"/>	8 standard	enum('voter', 'other')	utf8mb4_general_ci		No	None			Change  Drop  More
<input type="checkbox"/>	9 status	int(11)			No	None			Change  Drop  More

☐ Check all With selected: Browse Change Drop Primary Unique Index Spatial Fulltext

Print Propose table structure Move columns Normalise

17. Notification Data(Table): Table name 'notifydb'. It will store notification.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1 id	int(11)			No	None		AUTO_INCREMENT	Change  Drop  More
<input type="checkbox"/>	2 information	varchar(500)	utf8mb4_general_ci		No	None			Change  Drop  More
<input type="checkbox"/>	3 notifyid	varchar(100)	utf8mb4_general_ci		No	None			Change  Drop  More
<input type="checkbox"/>	4 date	date			No	None			Change  Drop  More

☐ Check all With selected: Browse Change Drop Primary Unique Index Spatial Fulltext

Remove from central columns

Print Propose table structure Track table Move columns Normalise

Add 1 column(s) after date Go

Indexes

18. If you have completed all steps till here and face no issue then congratulation.

19. We have done all setup.

20. Click on start button of Apache and MySQL from Xampp control panel.

21. Now go to browser and write “localhost/votingsystem/index.php” and hit enter.

22. Project will run perfectly if you follow each step, congrates. Thank you.

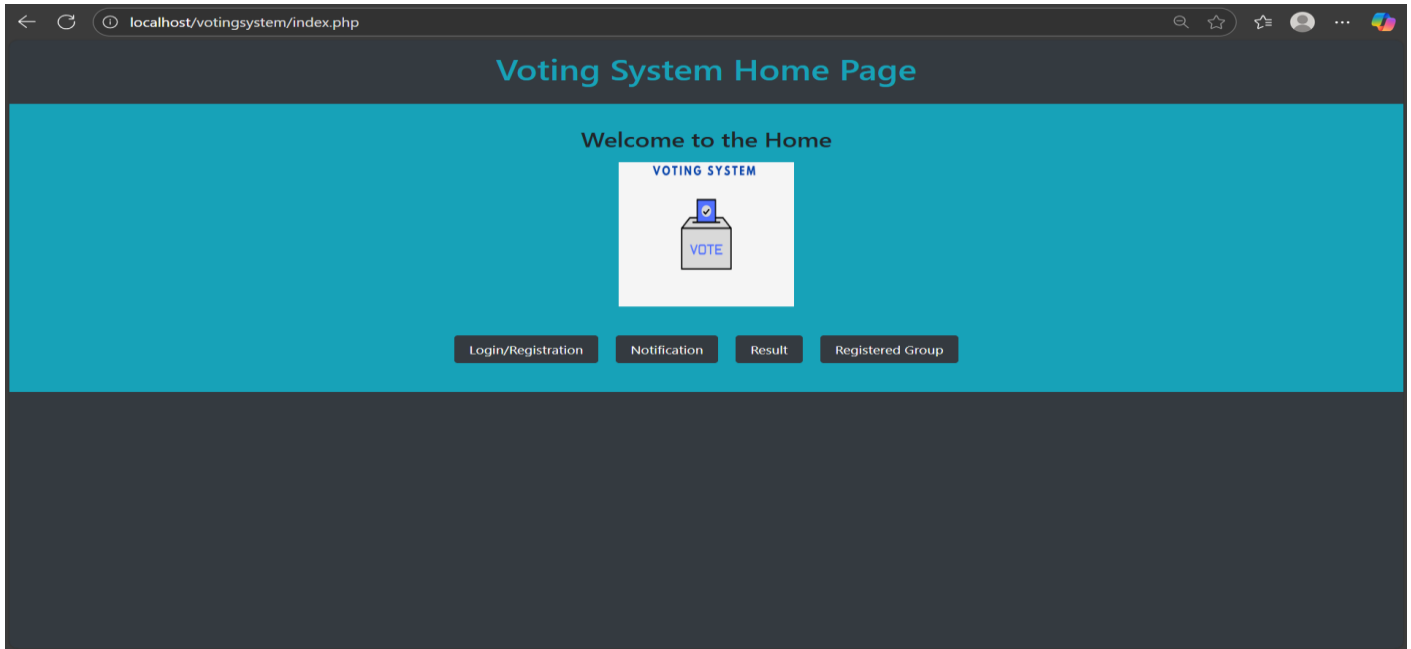
## Future Work:

To update this project we have multiple features to implement for better performance.

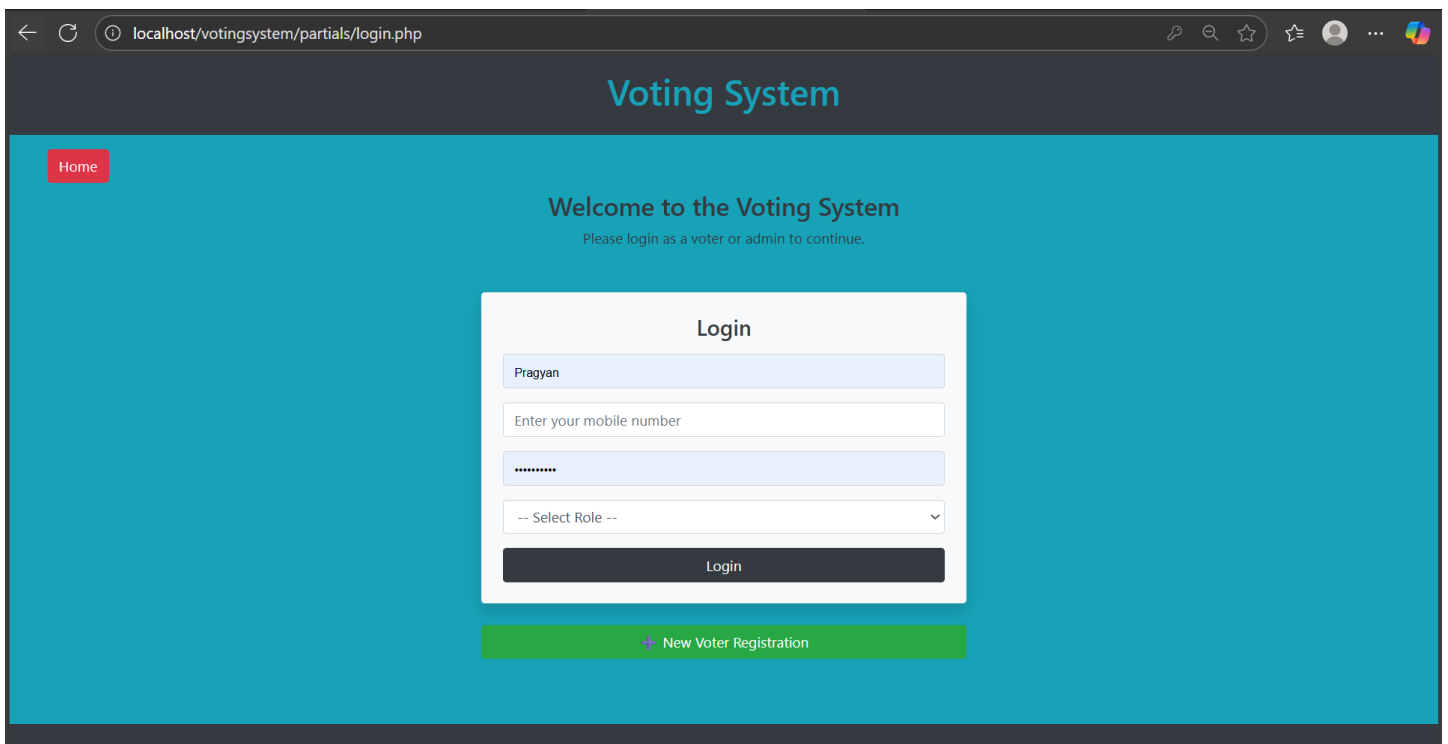
1. Make it more user-friendly.
2. Add Update and Delete buttons on a common page that allow users or groups—identified by their voter ID or government ID—to send a request to the admin for performing CRUD operations on their data.
3. Work on frontend to beautify it.

Screenshots:

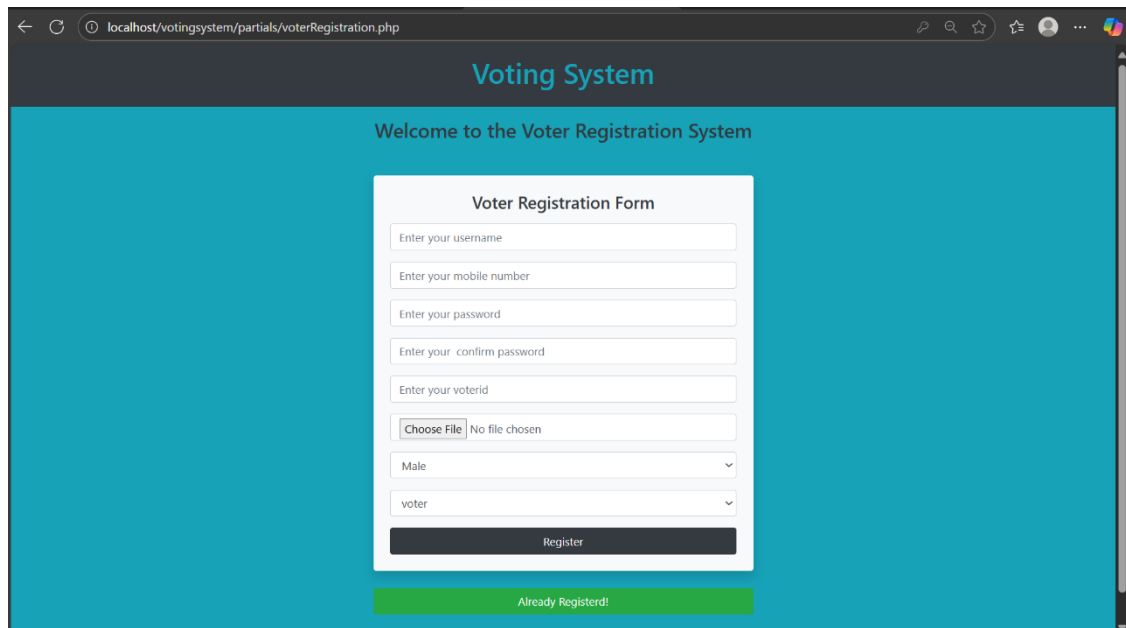
## 1. 1.Home



## 2. Login/Registration Page

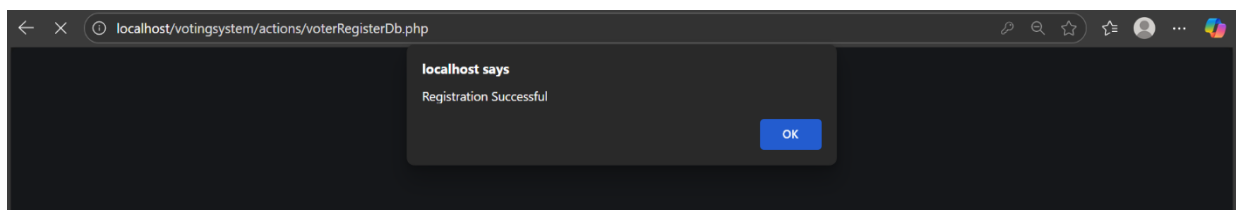


### 3. Voter Registration Page

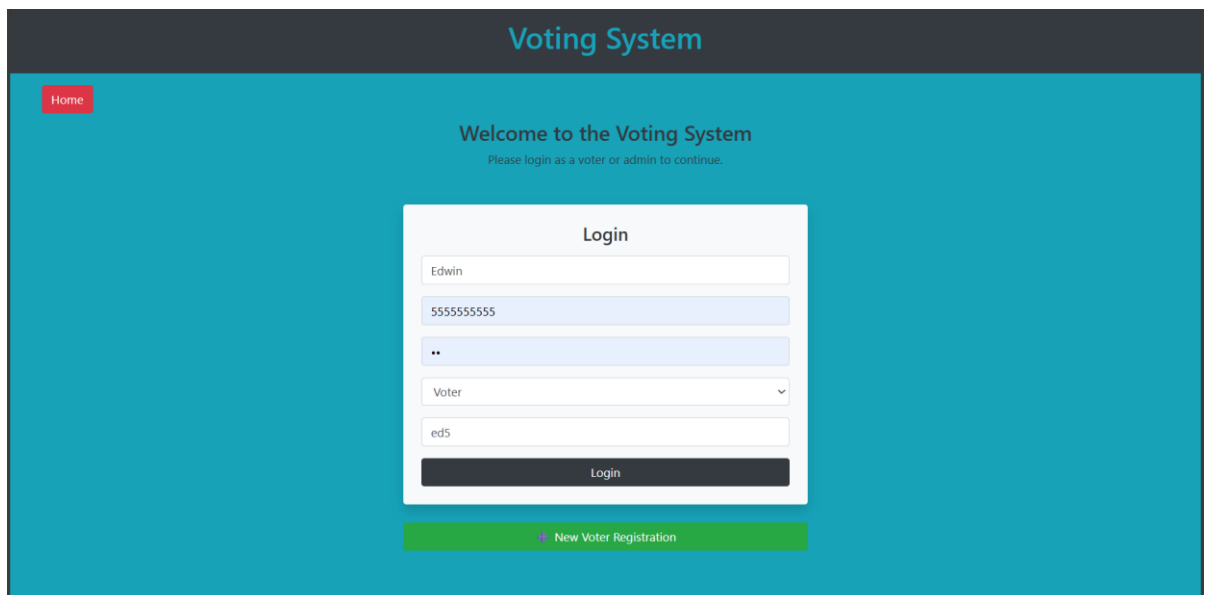


A screenshot of a web browser showing the 'Voter Registration Form' on a page titled 'Voting System'. The URL is localhost/votingsystem/partials/voterRegistration.php. The form is centered on a teal background and contains the following fields: 'Enter your username', 'Enter your mobile number', 'Enter your password', 'Enter your confirm password', 'Enter your voterid', a file upload button labeled 'Choose File' with the text 'No file chosen', a gender dropdown menu currently set to 'Male', and a role dropdown menu currently set to 'voter'. A 'Register' button is at the bottom of the form. Below the form, a green button labeled 'Already Registered!' is visible.

### 4. Confirmation Pop-up

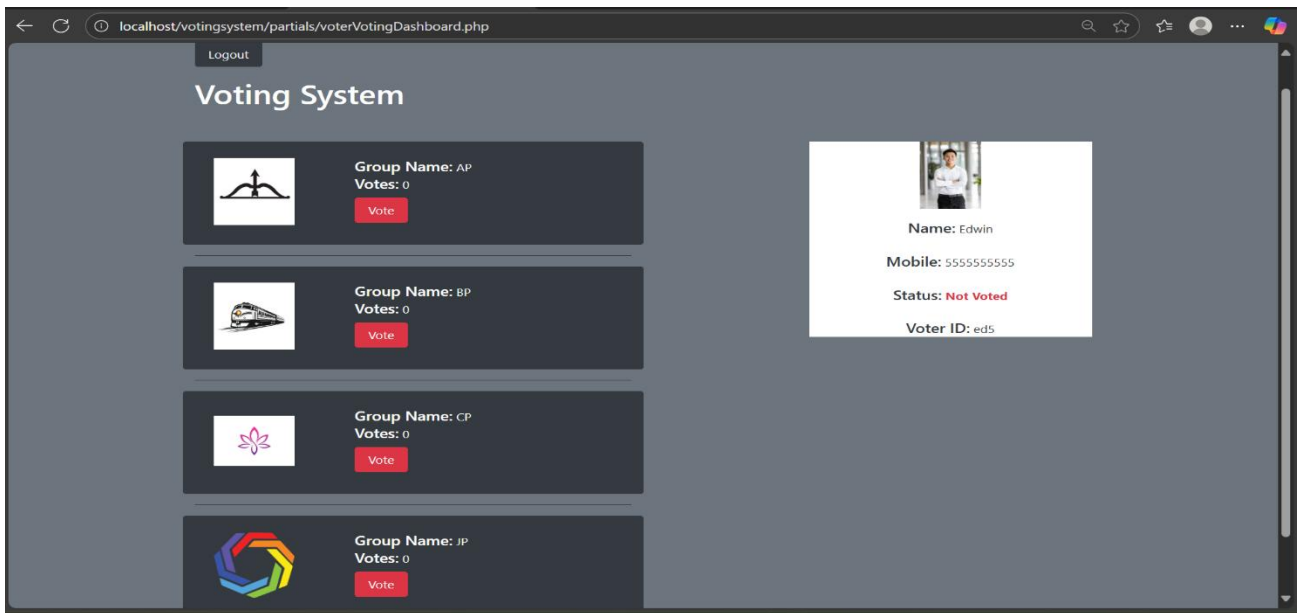


### 5. Login Process of Voter

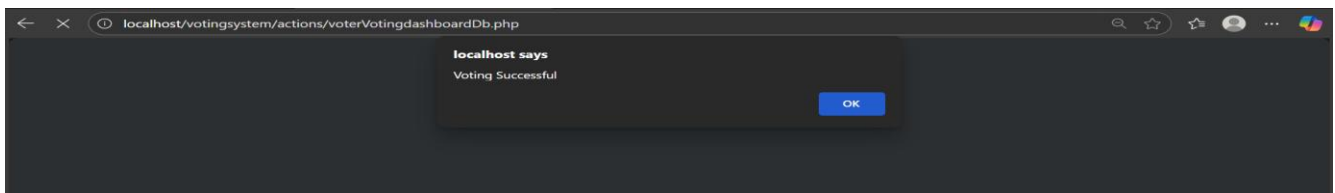


A screenshot of a web browser showing the 'Login' page of the 'Voting System'. The URL is localhost/votingsystem/partials/login.php. The page has a teal background and a dark gray header with the title 'Voting System'. A red 'Home' button is in the top left. The main content area says 'Welcome to the Voting System' and 'Please login as a voter or admin to continue.' Below this is a 'Login' form with the following fields: 'Edwin' (username), '5555555555' (mobile number), a password field with two dots, a role dropdown menu set to 'Voter', and 'ed5' (password). A 'Login' button is at the bottom of the form. Below the form, a green button labeled '+ New Voter Registration' is visible.

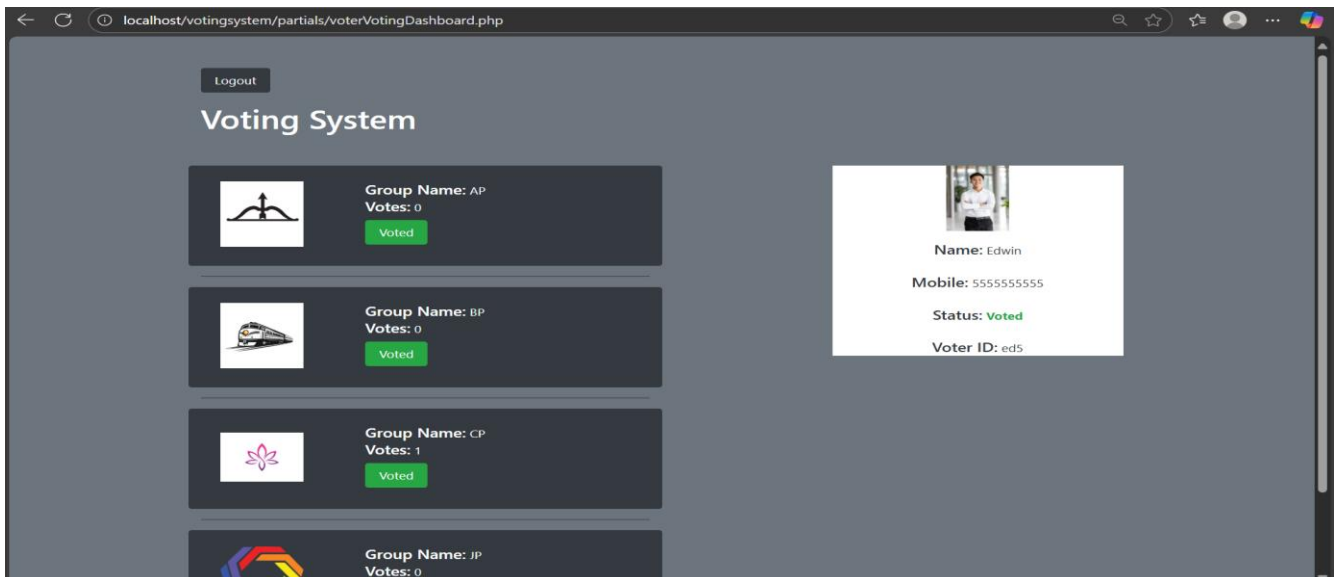
## 6. Voting Dashboard



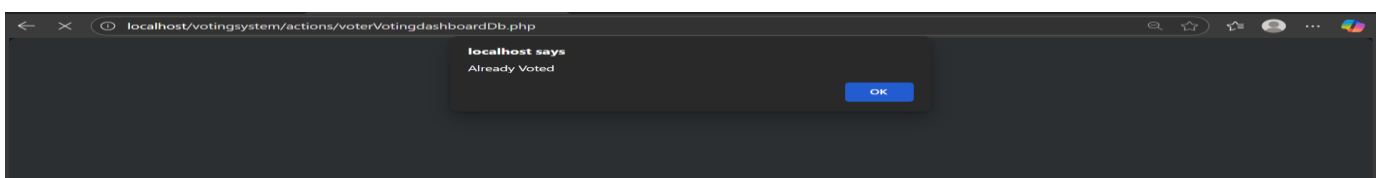
## 7. Voting Successful Pop-up



## 8. Updated Dashboard

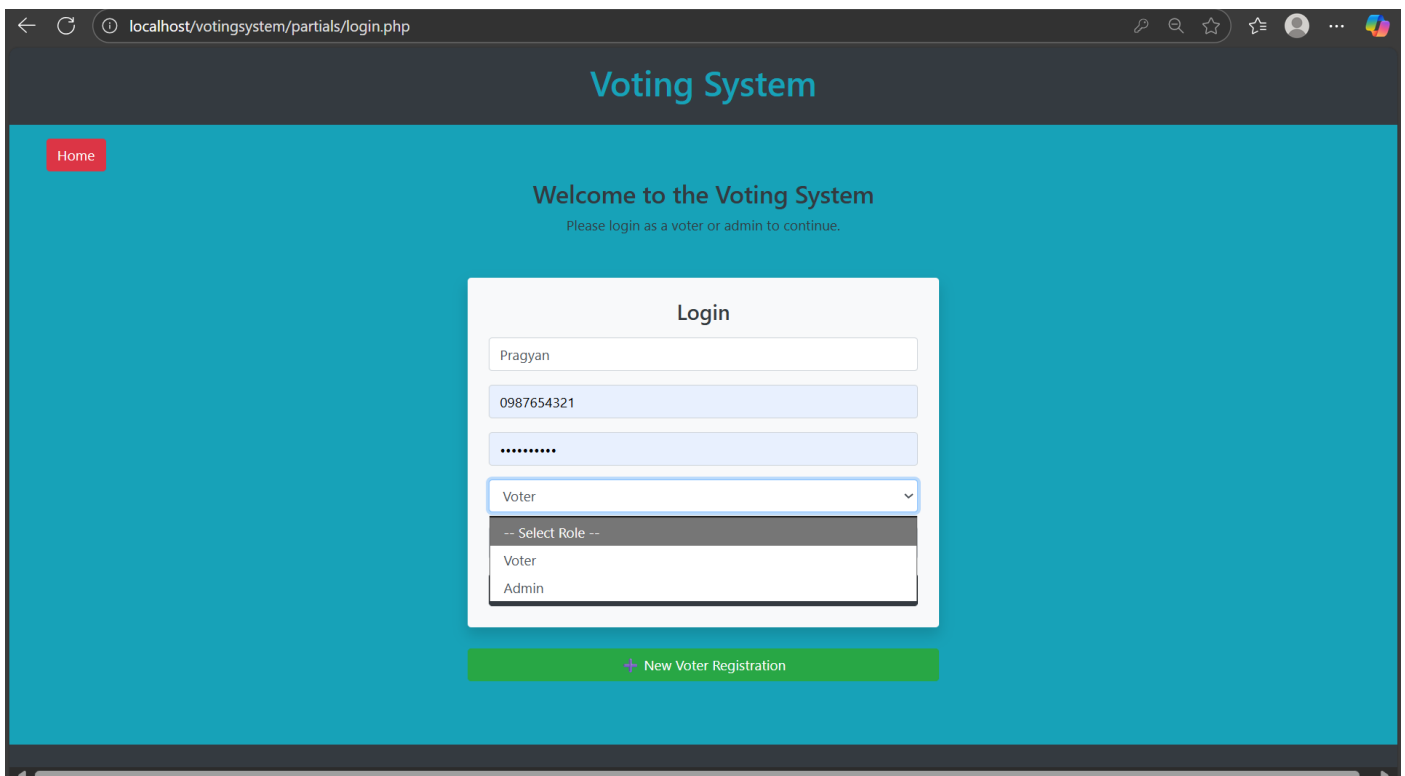


## 9. Pop-up alert if Voter vote again





## 10. Admin Login



The screenshot shows a web browser window with the address bar displaying `localhost/votingsystem/partials/login.php`. The page has a dark blue header with the text "Voting System" in white. Below the header, there is a teal background area. In the top left corner of this area, there is a red button labeled "Home". In the center, the text "Welcome to the Voting System" is displayed, followed by the instruction "Please login as a voter or admin to continue." Below this, there is a white login form titled "Login". The form contains the following fields: a text input for the username (containing "Pragyan"), a text input for the phone number (containing "0987654321"), a password input (containing "\*\*\*\*\*"), and a dropdown menu for the role (currently showing "Voter"). The dropdown menu is open, showing the options "-- Select Role --", "Voter", and "Admin". Below the form, there is a green button labeled "+ New Voter Registration".

localhost/votingsystem/partials/login.php

### Voting System

Home

#### Welcome to the Voting System

Please login as a voter or admin to continue.

#### Login

Pragyan

0987654321

\*\*\*\*\*

Voter

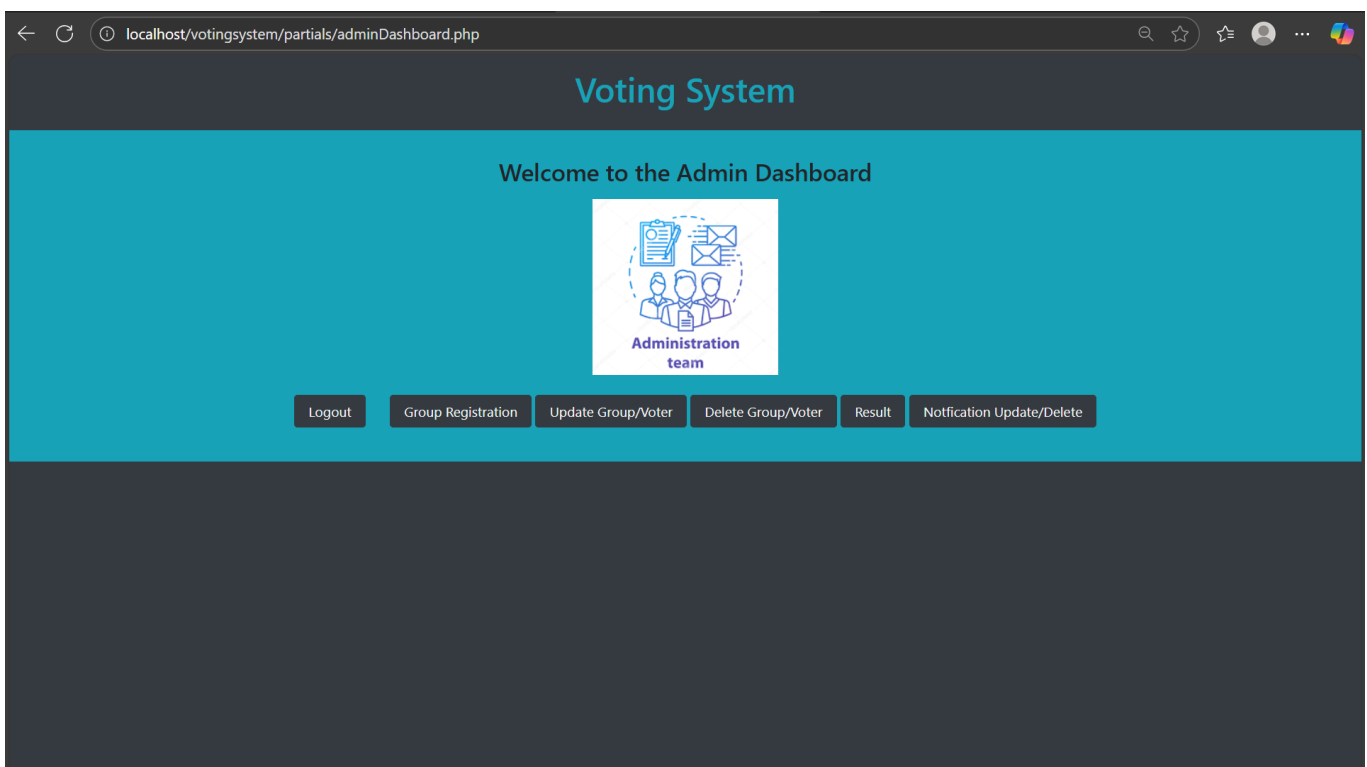
-- Select Role --

Voter

Admin

+ New Voter Registration

## 11. Admin Dashboard



The screenshot shows a web browser window with the address bar displaying `localhost/votingsystem/partials/adminDashboard.php`. The page has a dark blue header with the text "Voting System" in white. Below the header, there is a teal background area. In the center, the text "Welcome to the Admin Dashboard" is displayed. Below this, there is a white box containing an illustration of three people and the text "Administration team". Below the illustration, there is a row of six buttons: "Logout", "Group Registration", "Update Group/Voter", "Delete Group/Voter", "Result", and "Notification Update/Delete".

localhost/votingsystem/partials/adminDashboard.php

### Voting System

#### Welcome to the Admin Dashboard

Administration team

Logout Group Registration Update Group/Voter Delete Group/Voter Result Notification Update/Delete

## 12. Group Registration Page

### Voting System

#### Welcome to the Group Registration System

##### Group Registraion Form

Choose File

No file chosen

Group

▼

Register

Already Registerd!

## 13. Update and Delete Selection Page (By admin)

← ↻ ⓘ localhost/votingsystem/partials/NotifySet.php 🔍 ☆ ⚙️ 👤 ... 🌈

### Voting System

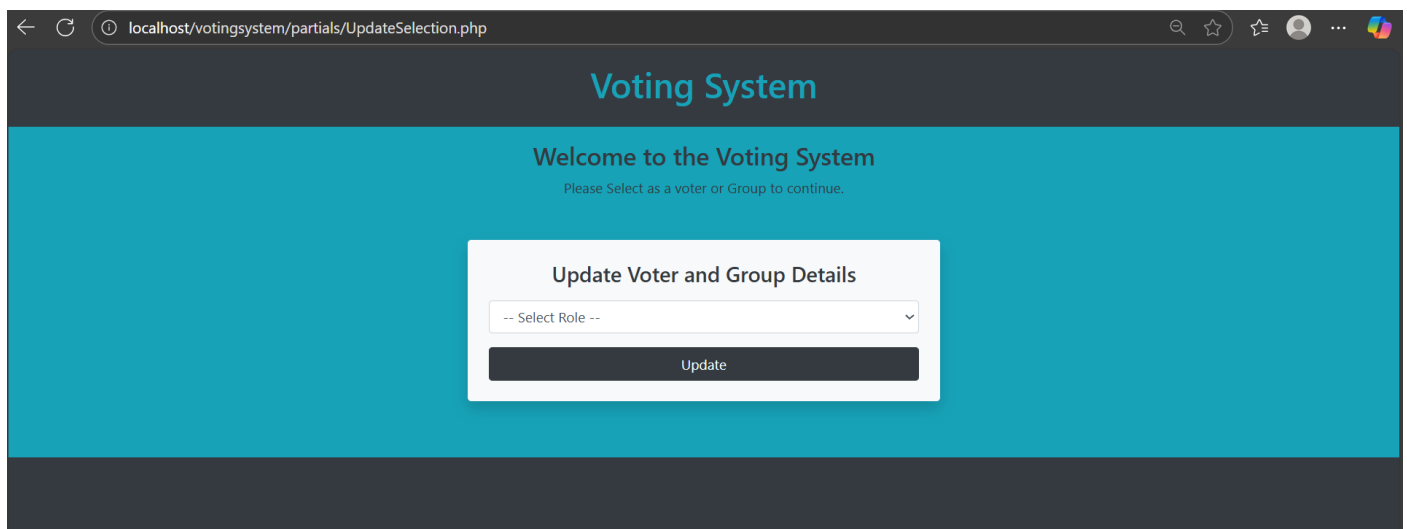
#### Welcome to the Voting System

Please Select Update or Delete to continue.

Update Notification

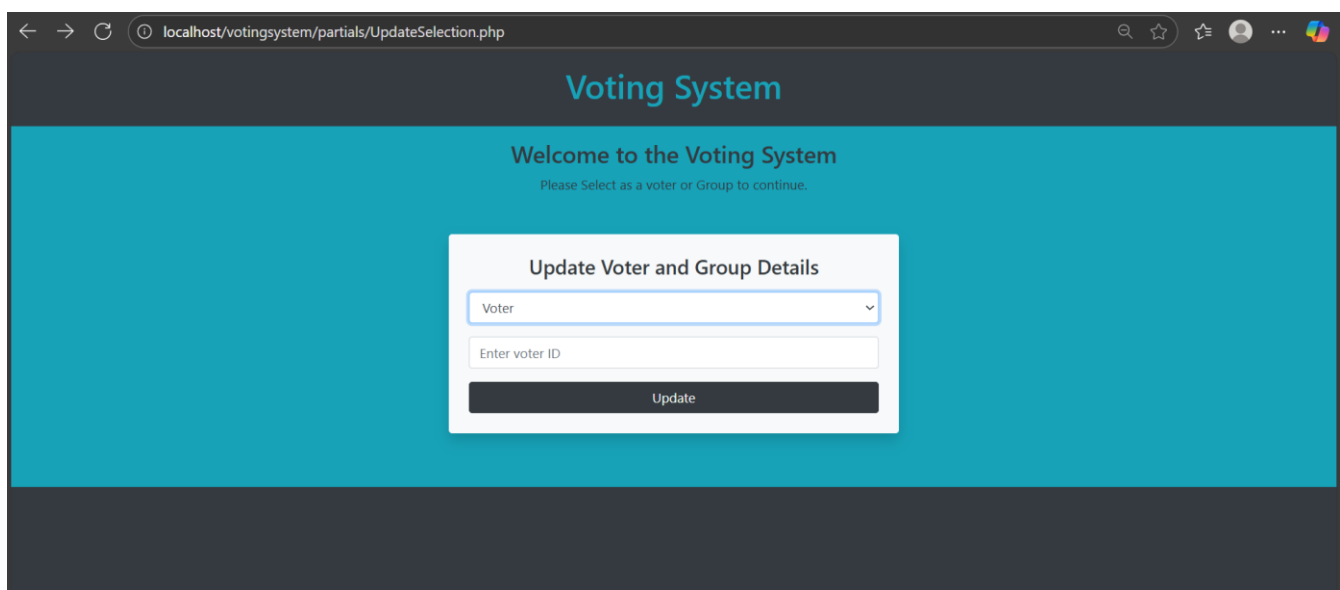
Delete Notification

14. Update Selection page for Voter and Group (By Admin).



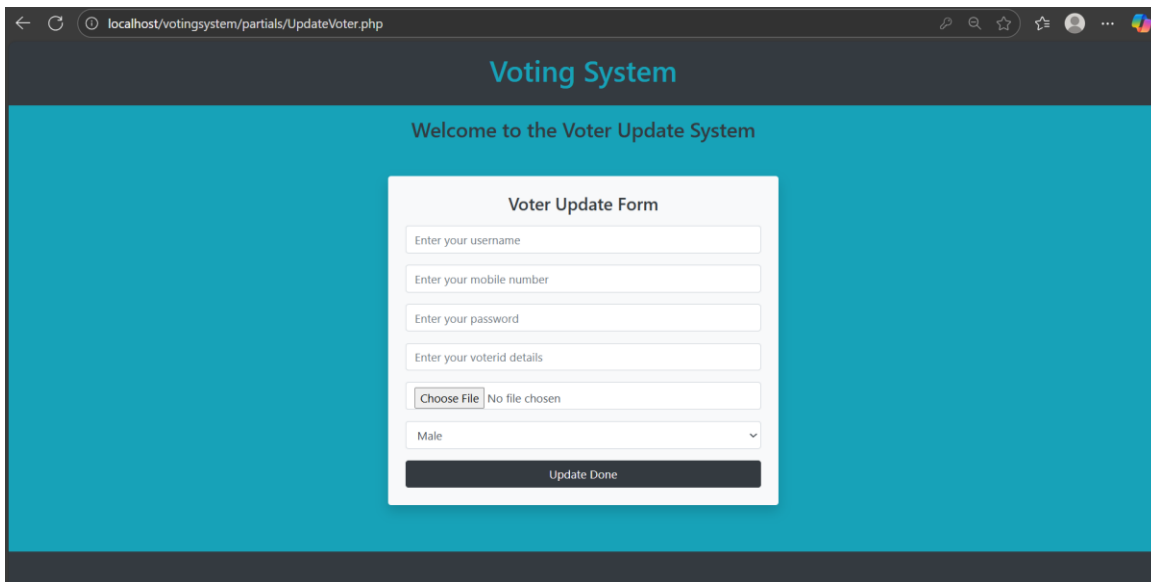
The screenshot shows a web browser window with the address bar displaying `localhost/votingsystem/partials/UpdateSelection.php`. The page has a dark blue header with the text "Voting System" in white. Below the header is a teal banner with the text "Welcome to the Voting System" and "Please Select as a voter or Group to continue." in white. In the center of the banner is a white box titled "Update Voter and Group Details". Inside this box is a dropdown menu with the text "-- Select Role --" and a dark blue "Update" button.

15. Required id field as per selection.



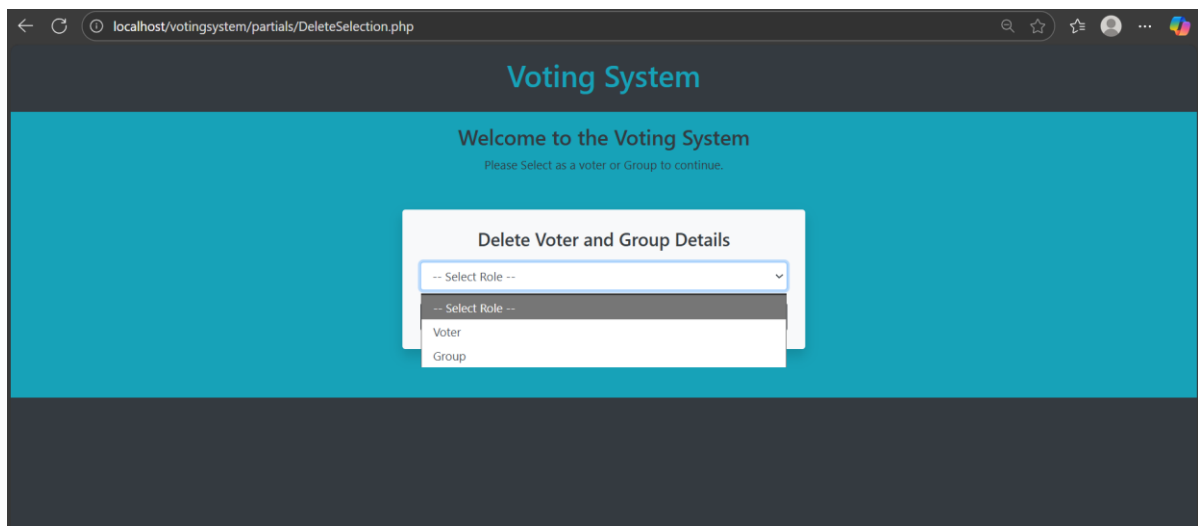
The screenshot shows a web browser window with the address bar displaying `localhost/votingsystem/partials/UpdateSelection.php`. The page has a dark blue header with the text "Voting System" in white. Below the header is a teal banner with the text "Welcome to the Voting System" and "Please Select as a voter or Group to continue." in white. In the center of the banner is a white box titled "Update Voter and Group Details". Inside this box is a dropdown menu with the text "Voter", a text input field with the placeholder text "Enter voter ID", and a dark blue "Update" button.

## 16. Voter Update page



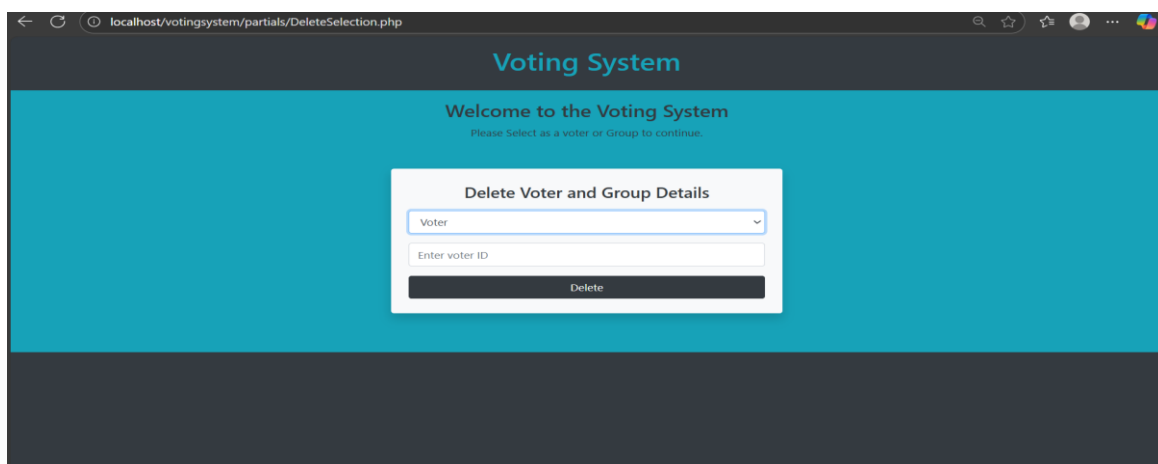
The screenshot shows a web browser window with the address bar displaying `localhost/votingsystem/partials/UpdateVoter.php`. The page has a dark header with the title "Voting System" and a teal background with the text "Welcome to the Voter Update System". In the center is a white "Voter Update Form" with the following fields: "Enter your username", "Enter your mobile number", "Enter your password", "Enter your voterid details", a file upload button labeled "Choose File" with the text "No file chosen", a gender dropdown menu currently showing "Male", and a black "Update Done" button at the bottom.

## 17. Delete selection Page



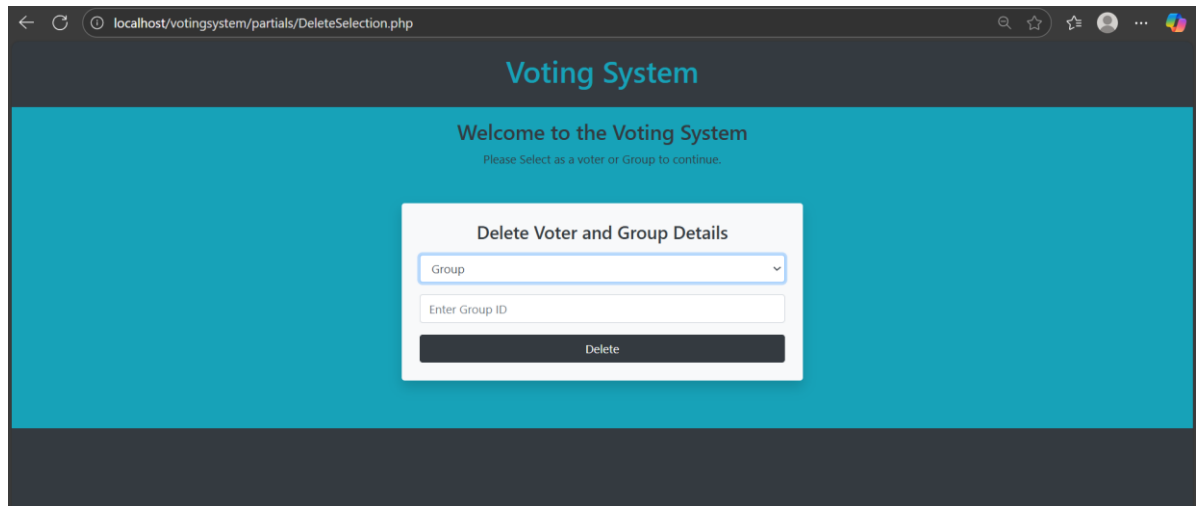
The screenshot shows a web browser window with the address bar displaying `localhost/votingsystem/partials/DeleteSelection.php`. The page has a dark header with the title "Voting System" and a teal background with the text "Welcome to the Voting System" and a subtext "Please Select as a voter or Group to continue.". In the center is a white "Delete Voter and Group Details" form. It features a dropdown menu labeled "-- Select Role --" which is currently open, showing two options: "Voter" and "Group". Below the dropdown is a black "Delete" button.

## 18. Delete option required id field.



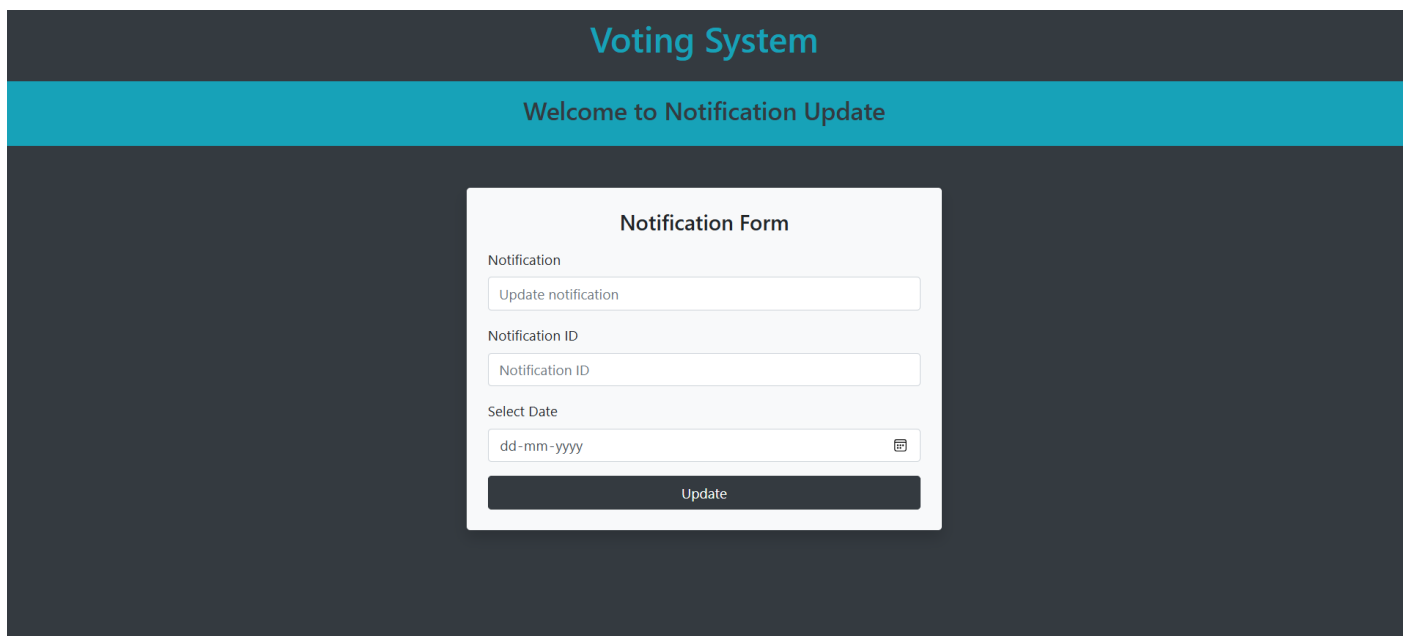
The screenshot shows a web browser window with the address bar displaying `localhost/votingsystem/partials/DeleteSelection.php`. The page has a dark header with the title "Voting System" and a teal background with the text "Welcome to the Voting System" and a subtext "Please Select as a voter or Group to continue.". In the center is a white "Delete Voter and Group Details" form. It features a dropdown menu labeled "Voter" and a text input field labeled "Enter voter ID". Below these fields is a black "Delete" button.

19. For group required government id field to delete data.



The screenshot shows a web browser window with the address bar displaying 'localhost/votingsystem/partials/DeleteSelection.php'. The page has a dark blue header with the text 'Voting System' in white. Below the header is a teal banner with the text 'Welcome to the Voting System' and 'Please Select as a voter or Group to continue.' in white. The main content area is white and contains a form titled 'Delete Voter and Group Details'. The form has a dropdown menu labeled 'Group' with a downward arrow, a text input field labeled 'Enter Group ID', and a dark blue button labeled 'Delete'.

20. Notification Update Page (By Admin)



The screenshot shows a web browser window with a dark blue header containing the text 'Voting System' in white. Below the header is a teal banner with the text 'Welcome to Notification Update' in white. The main content area is dark blue and contains a white form titled 'Notification Form'. The form has three sections: 'Notification' with a text input field containing 'Update notification', 'Notification ID' with a text input field containing 'Notification ID', and 'Select Date' with a date picker showing 'dd-mm-yyyy' and a calendar icon. At the bottom of the form is a dark blue button labeled 'Update'.

## 21. Notification Delete Page (Required only notification id)

# Voting System

## Welcome to the Group Delete System

### Notification Delete Form

Enter notification id

Delete

## 22. Notification Dashboard

localhost/votingsystem/actions/ShowNotification.php

# Notification Dashboard

Logout





Notification ID	Notification	Date
News1	We are going to arrange a new election on this sunday for new chairman of the city.	2025-09-14
News2	We are going to arrange a new election on this sunday for new chairman of the city.	2025-09-20

## 23. Result before Voting

localhost/votingsystem/actions/ResultShow.php

### Voting Result Dashboard

Logout





Group Image	Group Name	Total Votes
	AP	0
	BP	0
	CP	0
	JP	0

## 24. Result After Voting

localhost/votingsystem/actions/ResultShow.php

### Voting Result Dashboard

Logout

Group Image	Group Name	Total Votes
	AP	0
	BP	0
	CP	1
	JP	0