

Voting System Project

About Project

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

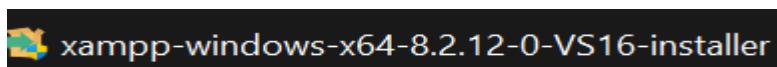
Run Procedure

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'm 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

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

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.

The screenshot shows the MySQL Workbench interface with the 'admin' table selected. The table has four columns: id, username, mobile, and password. One row is present with id=1, username='Pragyan', mobile='0987654321', and password='pragyan123'. Below the table, there are standard database management buttons: Edit, Copy, Delete, Check all, With selected, Export, and a toolbar with arrows and other icons.

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

The screenshot shows the MySQL Workbench interface with the 'userdata' table structure. The table has nine columns: #, Name, Type, Collation, Attributes, Null, Default, Comments, and Action. The columns are: 1. id (int(11)), 2. username (varchar(100)), 3. mobile (varchar(10)), 4. password (varchar(100)), 5. voterid (varchar(20)), 6. photo (varchar(200)), 7. gender (enum('Male', 'Female', 'Other')), 8. standard (enum('voter', 'other')), and 9. status (int(11)). The 'Action' column contains links for Change, Drop, Primary, Unique, Index, Spatial, and Fulltext. Below the table, there are buttons for Print, Propose table structure, Move columns, Normalise, and a toolbar with arrows and other icons.

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

The screenshot shows the MySQL Workbench interface with the 'notifydb' table structure. The table has five columns: #, Name, Type, Collation, Attributes, Null, Default, Comments, and Action. The columns are: 1. id (int(11)), 2. information (varchar(500)), 3. notifyid (varchar(100)), and 4. date (date). The 'Action' column contains links for Change, Drop, Primary, Unique, Index, Spatial, and Fulltext. Below the table, there are buttons for Print, Propose table structure, Track table, Move columns, Normalise, Add, and a toolbar with arrows and other icons. At the bottom, there is an 'Indexes' section.

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.

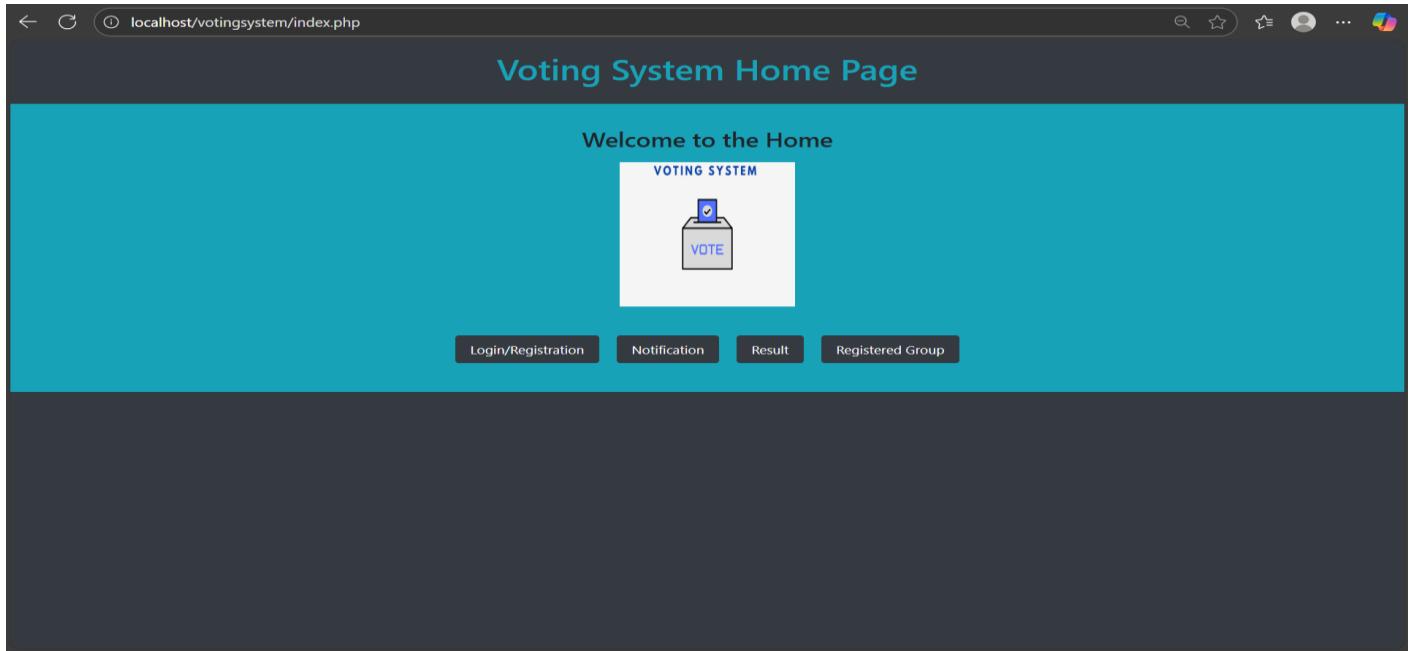
Future Work:

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

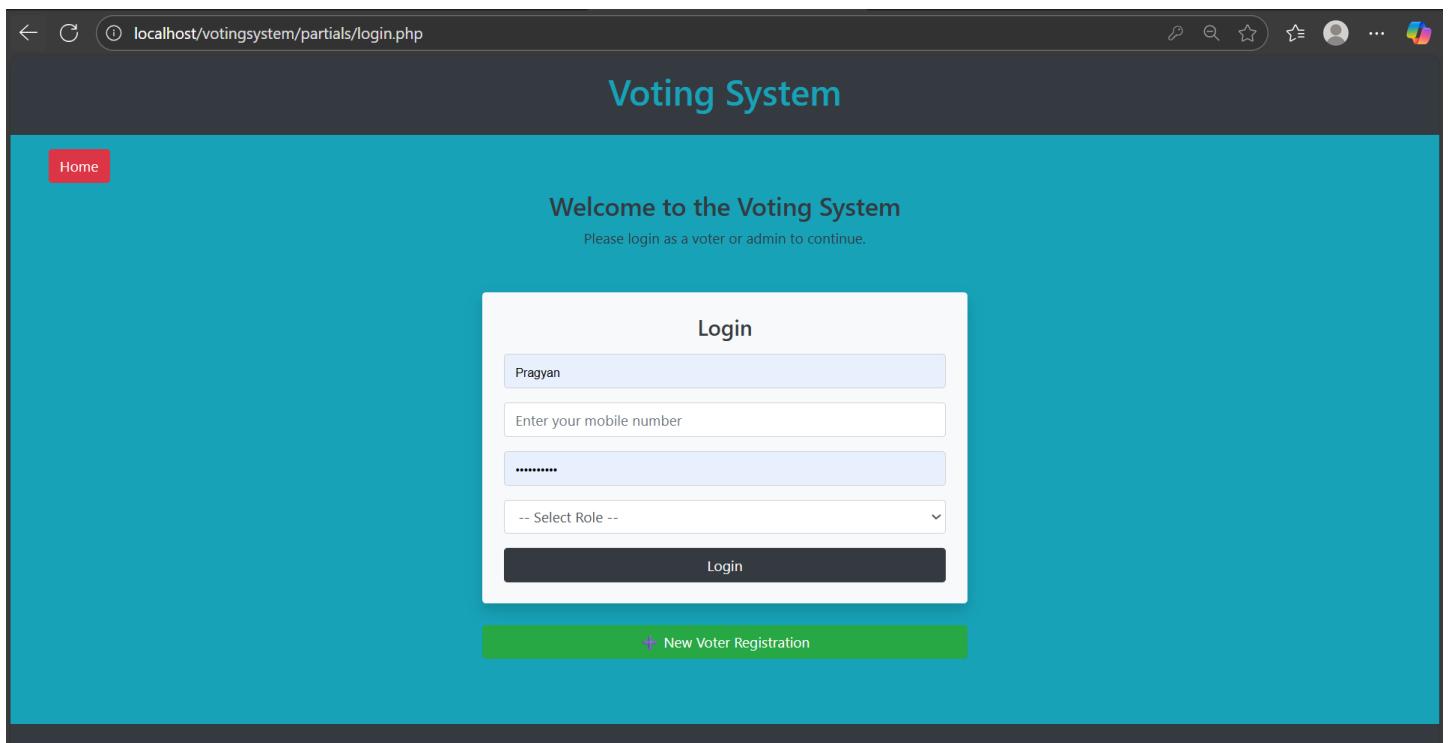
1. Make it more user-friendly.
2. Add Update and Delete buttons on a common page that allow users or groups—identified by their voter ID or government ID—to send a request to the admin for performing CRUD operations on their data.
3. Work on frontend to beautify it.

Screenshots:

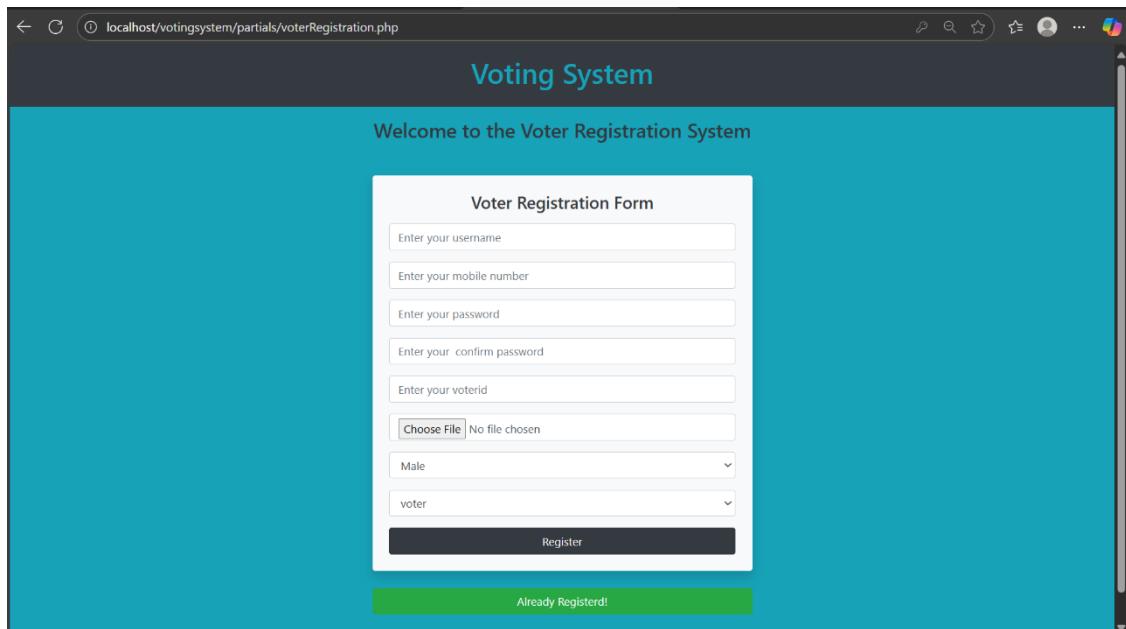
1. 1.Home



2. Login/Registration Page

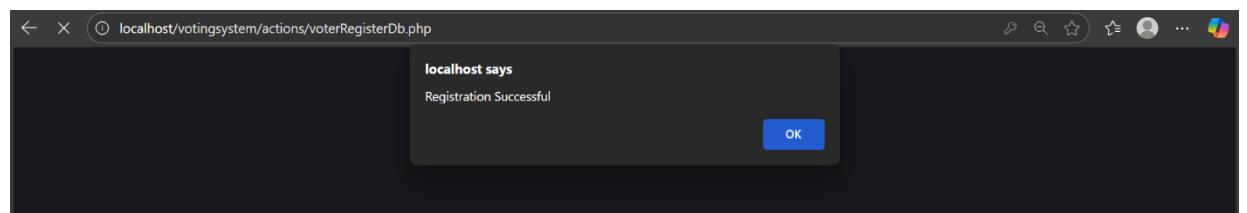


3. Voter Registration Page

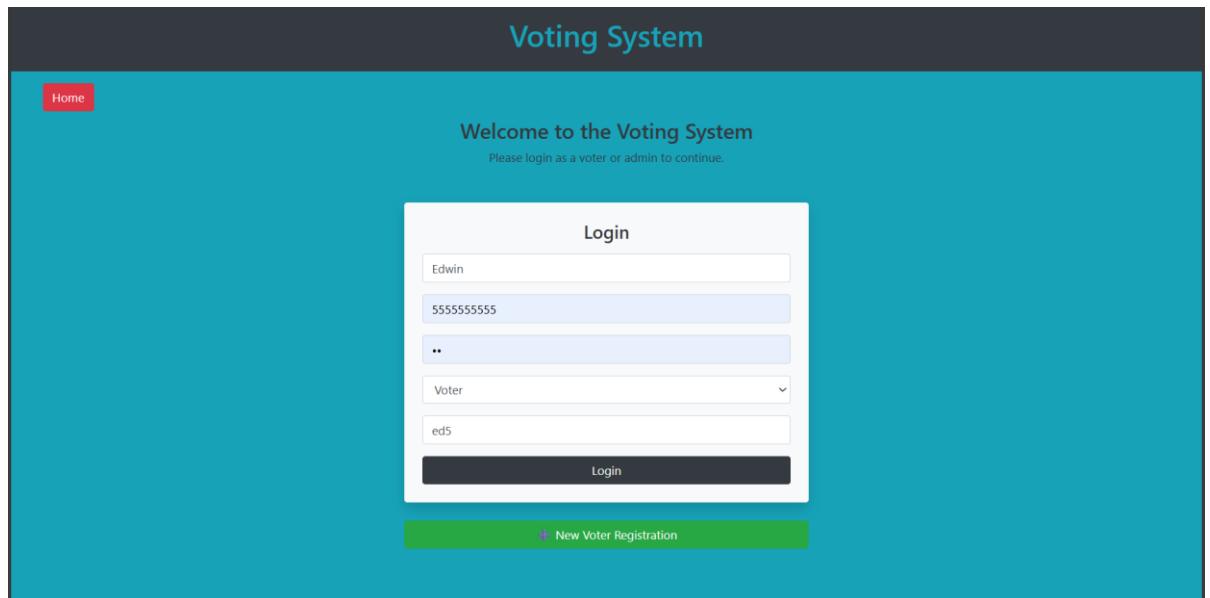


The screenshot shows a web browser window with the URL `localhost/votingsystem/partials/voterRegistration.php`. The page title is "Voting System". Below it, a header says "Welcome to the Voter Registration System". A "Voter Registration Form" is displayed, containing fields for username, mobile number, password, confirm password, voter ID, file upload, gender (Male), and role (voter). A "Register" button is at the bottom. At the bottom of the page, there is a green bar with the text "Already Registered!".

4. Confirmation Pop-up



5. Login Process of Voter

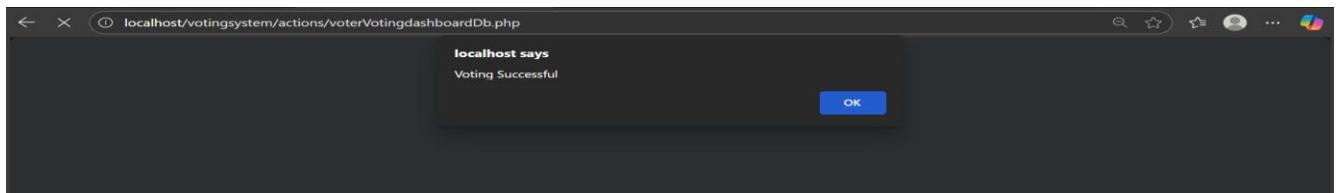


The screenshot shows a web browser window with the URL `localhost/votingsystem/actions/voterRegisterDb.php`. The page title is "Voting System". A "Home" button is visible in the top left. The main content area has a header "Welcome to the Voting System" with a sub-instruction "Please login as a voter or admin to continue.". A "Login" form is centered, with fields for username, mobile number, password, role (Voter), and a password strength indicator. A "Login" button is at the bottom. At the bottom of the page, there is a green bar with the text "+ New Voter Registration".

6. Voting Dashboard

The screenshot shows a web-based voting system interface. On the left, there are four cards representing different groups: AP (with a mountain icon), BP (with a train icon), CP (with a flower icon), and JP (with a colorful geometric logo). Each card displays the group name, current vote count (0 for all), and a red "Vote" button. To the right, a detailed profile for a voter named Edwin is shown, featuring a small portrait photo, the name "Edwin", the mobile number "5555555555", the status "Not Voted" (in red), and the voter ID "ed5".

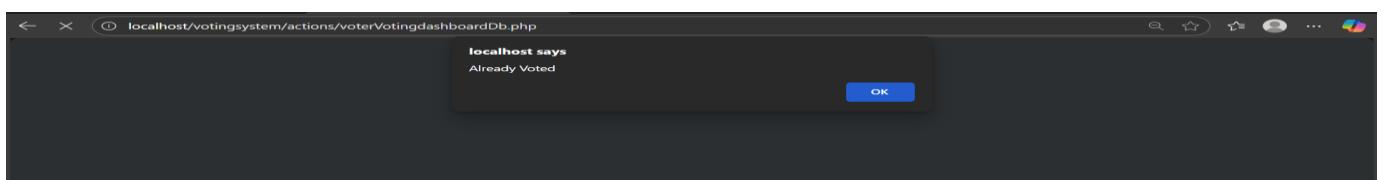
7. Voting Successful Pop-up



8. Updated Dashboard

The dashboard has been updated after a vote was cast. The group cards now show a green "Voted" button instead of a "Vote" button. The voter profile for Edwin remains the same, indicating he has not voted again.

9. Pop-up alert if Voter vote again



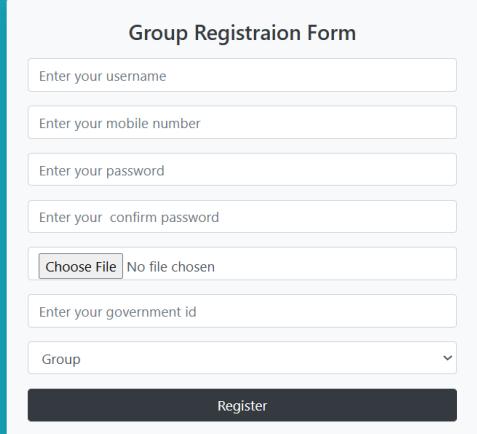
10. Admin Login

The screenshot shows a web browser window with the URL `localhost/votingsystem/partials/login.php`. The title bar says "Voting System". The main content area has a teal header with the text "Welcome to the Voting System" and a sub-instruction "Please login as a voter or admin to continue.". Below this is a "Login" form with four input fields: "Pragyan" (username), "0987654321" (mobile number), a masked password field, and a dropdown menu for "Select Role". The dropdown is currently set to "Voter" and shows two options: "Voter" and "Admin". At the bottom of the form is a green button labeled "+ New Voter Registration".

11. Admin Dashboard

The screenshot shows a web browser window with the URL `localhost/votingsystem/partials/adminDashboard.php`. The title bar says "Voting System". The main content area has a teal header with the text "Welcome to the Admin Dashboard". Below this is a central graphic featuring three stylized human figures and icons like a clipboard and envelope, with the text "Administration team" underneath. At the bottom of the dashboard are several navigation buttons: "Logout", "Group Registration", "Update Group/Voter", "Delete Group/Voter", "Result", and "Notification Update/Delete".

12. Group Registration Page



The screenshot shows a registration form titled "Group Registratioin Form". It contains fields for username, mobile number, password, confirm password, government ID, and a dropdown for "Group". A file upload field is also present. A "Register" button is at the bottom. Below the form, a green bar displays the message "Already Registered!".

Voting System

Welcome to the Group Registration System

Group Registratioin Form

Enter your username

Enter your mobile number

Enter your password

Enter your confirm password

Choose File No file chosen

Enter your government id

Group

Register

Already Registered!

13. Update and Delete Selection Page (By admin)



The screenshot shows a selection page for notifications. It features a header "Voting System" and a main title "Welcome to the Voting System". Below the title is a message: "Please Select Update or Delete to continue.". At the bottom, there are two buttons: "Update Notification" and "Delete Notification".

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 URL `localhost/votingsystem/partials/UpdateSelection.php`. The title bar says "Voting System". The main content area has a teal background and displays the message "Welcome to the Voting System" followed by "Please Select as a voter or Group to continue.". A central white box titled "Update Voter and Group Details" contains a dropdown menu labeled "-- Select Role --" and a solid black "Update" button.

15. Required id field as per selection.

The screenshot shows the same web browser window as the previous one, but now the dropdown menu in the "Update Voter and Group Details" box is set to "Voter". Below it, there is a text input field labeled "Enter voter ID" and the familiar "Update" button.

16. Voter Update page

The screenshot shows a web browser window with the URL `localhost/votingsystem/partials/UpdateVoter.php`. The title bar says "Voting System". The main content area has a teal background and displays the message "Welcome to the Voter Update System". A white modal box titled "Voter Update Form" contains several input fields: "Enter your username", "Enter your mobile number", "Enter your password", "Enter your voterid details", a file input field with the placeholder "Choose File" and "No file chosen", a dropdown menu set to "Male", and a solid black "Update Done" button.

17. Delete selection Page

The screenshot shows a web browser window with the URL `localhost/votingsystem/partials/DeleteSelection.php`. The title bar says "Voting System". The main content area has a teal background and displays the message "Welcome to the Voting System" and "Please Select as a voter or Group to continue.". A white modal box titled "Delete Voter and Group Details" contains a dropdown menu labeled "-- Select Role --" which is currently open, showing two options: "Voter" and "Group".

18. Delete option required id field.

The screenshot shows a web browser window with the URL `localhost/votingsystem/partials/DeleteSelection.php`. The title bar says "Voting System". The main content area has a teal background and displays the message "Welcome to the Voting System" and "Please Select as a voter or Group to continue.". A white modal box titled "Delete Voter and Group Details" contains a dropdown menu labeled "Voter", an input field labeled "Enter voter ID", and a solid black "Delete" button.

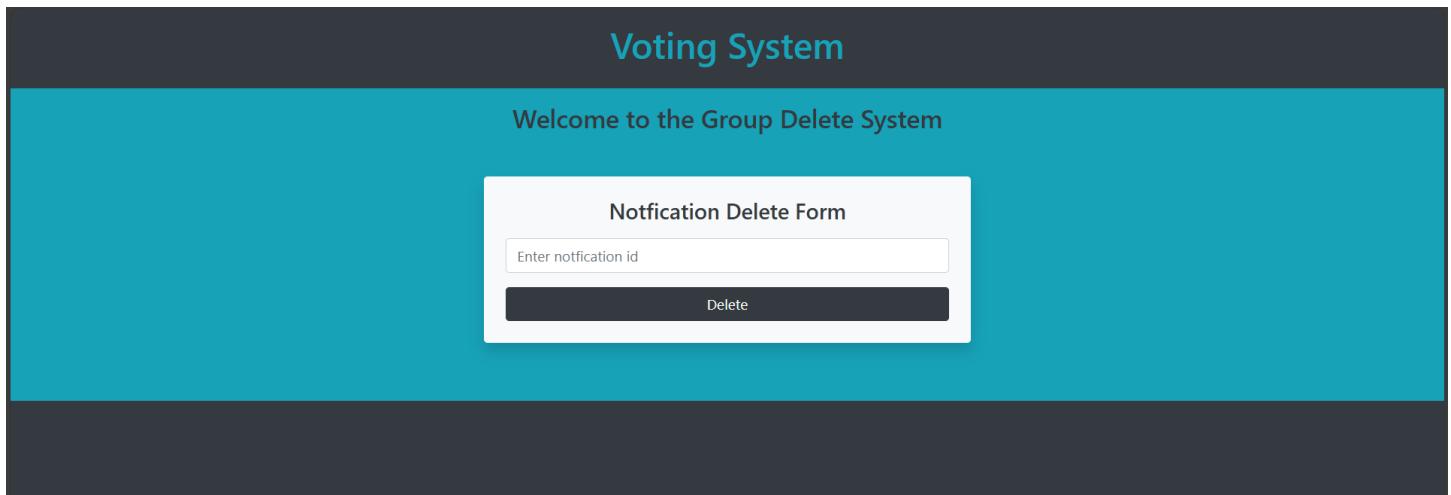
19. For group required government id field to delete data.

The screenshot shows a web browser window with the URL `localhost/votingsystem/partials/DeleteSelection.php`. The page title is "Voting System". Below it, a message reads "Welcome to the Voting System" and "Please Select as a voter or Group to continue.". A central modal window titled "Delete Voter and Group Details" contains a dropdown menu set to "Group", a text input field labeled "Enter Group ID", and a large black "Delete" button.

20. Notification Update Page (By Admin)

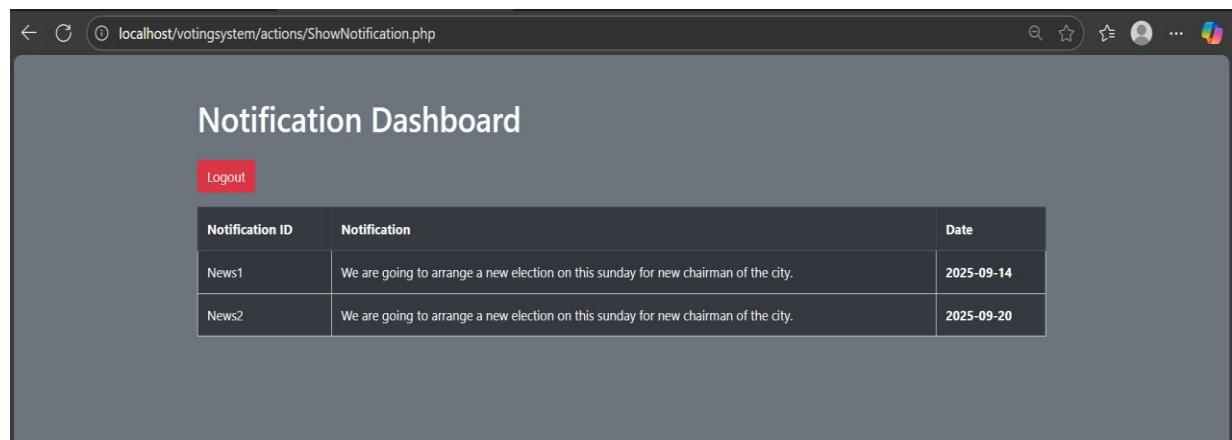
The screenshot shows a web browser window with the URL `localhost/votingsystem/partials/DeleteSelection.php`. The page title is "Voting System". Below it, a message reads "Welcome to Notification Update". A central modal window titled "Notification Form" contains fields for "Notification" (with placeholder "Update notification"), "Notification ID" (with placeholder "Notification ID"), and "Select Date" (with placeholder "dd-mm-yyyy" and a calendar icon). A large black "Update" button is at the bottom.

21. Notification Delete Page (Required only notification id)



The screenshot shows a web page titled "Voting System" with a teal header and dark grey footer. The main content area has a white background and displays the message "Welcome to the Group Delete System". Below this, a white box contains the title "Notification Delete Form". Inside the box is a text input field labeled "Enter notification id" and a black button labeled "Delete".

22. Notification Dashboard



The screenshot shows a browser window with the URL "localhost/votingsystem/actions>ShowNotification.php". The page title is "Notification Dashboard". It features a red "Logout" button. Below it is a table with three columns: "Notification ID", "Notification", and "Date". The table contains two rows of data.

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

The screenshot shows a web browser window with the URL `localhost/votingsystem/actions/ResultShow.php`. The title bar reads "Voting Result Dashboard". A red "Logout" button is visible. Below it is a table with three columns: "Group Image", "Group Name", and "Total Votes". There are four rows in the table:

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

24. Result After Voting

The screenshot shows a web browser window with the URL `localhost/votingsystem/actions/ResultShow.php`. The title bar reads "Voting Result Dashboard". A red "Logout" button is visible. Below it is a table with three columns: "Group Image", "Group Name", and "Total Votes". There are four rows in the table:

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