

Android Project Report on

VOTING SYSTEM

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Project Title: Voting System

Project Group:

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1 Introduction

Android is a mobile operating system based on a modified version of the Linux kernel and other open source software, designed primarily for touchscreen mobile devices such as smartphones and tablets. Android is developed by a consortium of developers known as the Open Handset Alliance and commercially sponsored by Google. It was unveiled in 2007, with the first commercial Android device launched in September 2008.

Our project is about an android voting application. Voting is necessary wherever there is more than one choice. As a part of democracy voting is necessary for choosing the right one.

Our application provides technology to create and manage election online.

We are revolutionizing voting with the most secure, convenient, and trustworthy system in history.

A simple and intuitive application that puts security above all. Your vote is independently verified, tamper-resistant, and auditable. Rest assured that your vote is tallied privately and anonymously.

2 Work Done

The making and functioning of voting app has various stages. Working of app starts by selection of shortcut key in the homepage.

As we open the application, we get a login screen. Where we have an option to register. The applicant has to register, with all username and their respective passwords. All the user details are stored in the database using SQLite.

All the users are allowed to login using their respective username and password in our login screen. For security purposes, we have a show password option, which enable the view of password.

After login, voting between IOS and android is enabled. After voting once, the both vote buttons are disabled. It is done so that one user can vote for only one of them and all the test cases have come out successful.

After voting, result button is enabled and when we click on it, we will be directing to the winner screen, where we can see percentage of votes and also the winner, by how many number of votes.

In this voting application each user votes are stored in database using SQLite. Here, the number of android and iOS votes are sent from voting screen to winner screen using bundles.

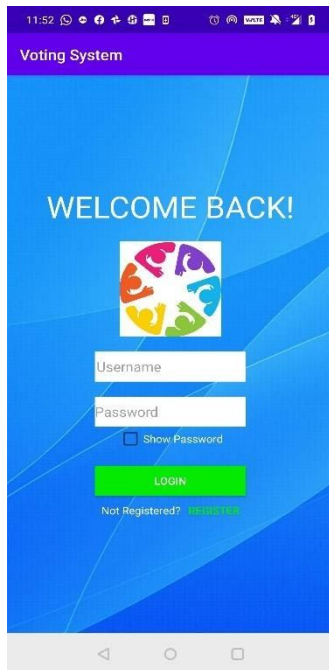
Some special features of our app are that if the user has already voted and logins again, it shows status as already voted and allows the user to check results.

Keeping the importance of security, the password for login has to be more than 6 characters. If one of the input details like username is not filled then we have used toast that “username required” and if password is not filled then “password required”. If more than one details are empty then we have used toast that “fields are empty”.

If password and confirm password are not same then we have used toast, which displays a message that both the passwords are not matching. Login error if user is not registered and also if the username doesn't match with the given password.

If the user has already registered and if once again the user tries to register then toast displays that “you have registered already please login” and login screen opens.

3 Results and Discussion



LOGIN SCREEN:

When clicked on app, login screen of our app open, where a registered user has to login by filling the username and password and by clicking on login they are taken to next screen. If the user is not registered then by clicking on register, they are taken to the registration screen.

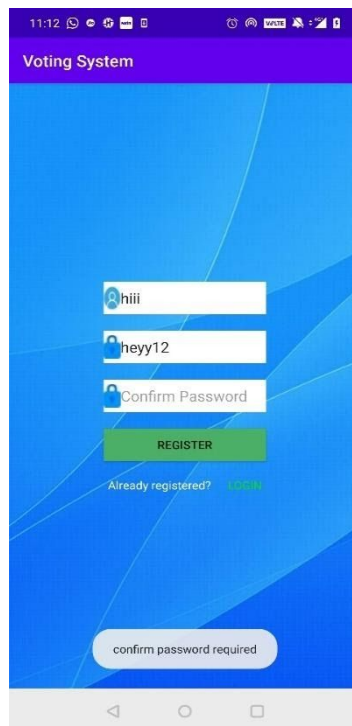


When clicked on show password box, user will be able to see the password. If the username and password is not matched and if the user is not registered popup message “LOGIN ERROR” is shown.

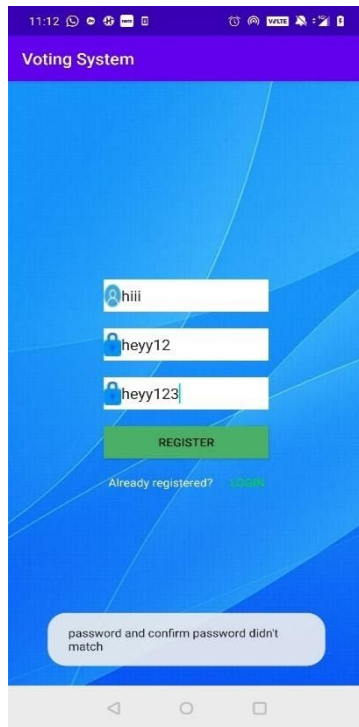


REGISTRATION SCREEN:

This is registration screen where a new user registers here and on clicking the register button we will be taken to the voting screen. If the user is already registered then they can click on login and they will be directed to login screen.



If the fields are empty then we displayed a popup message that “fields are empty” and if any specific field is empty (only one field is empty) then we displayed like “confirm password required”. Password must have more than 6 characters.



If both the confirm password and passwords are not matching then we displayed “password and confirm password didn’t match”

If the user is already registered and tries to register again then we displayed “You have registered already please login” and we will be directing it to login screen.





VOTING SCREEN:

In this voting screen we conducted voting between ANDROID and iOS. In this screen first two vote buttons are enabled and result button is disabled.



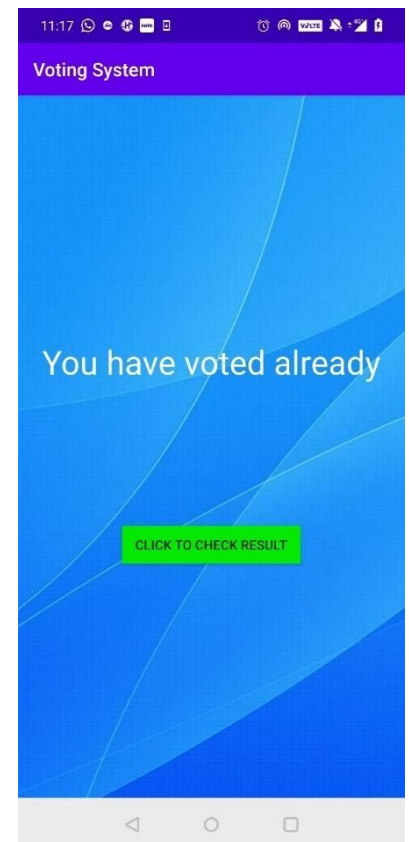
After clicking any of the vote button once, both the vote buttons are disabled and result button is enabled (so that only once the user can vote). If user voted for android then we displayed that “You voted for Android”. After clicking result button we will be taken to the results screen.



RESULT SCREEN:

This is result screen where the winner is shown by how many number of votes and total number of users participated in voting. It also shows the percentage of votes secured by each.

If the person logins again and tries to vote then we displayed that you have voted already and there is a button to check the result. If the button is clicked we will be directing to result screen.



4 Conclusion and Future work

We would like to conclude that, this project has helped everyone in developing android app, according to the requirement. It has also helped in understanding functioning of apps in day to day lives. This would help in making of extraordinary apps in future.

Our app provides less number of options for the voter. We will make sure our app becomes more flexible, so that voter can choose from more number of choices.

We would like to make this app more secure. Login of user has to be more secure, we would do it by taking phone number of the user and sending a OTP (one time password), the user has to enter OTP and can cast his vote.

Voting is an essential part of democracy, as a part of democracy developments in our app will help in conducting fare election. In coming future we would like to provide technology for government, associations, corporates, clubs, unions, housing societies to create and manage elections online.