



## Voting System (offline) ACP Internship

### Overview:-

This is app to vote. In this app there will be two Logion access: Admin and User.

Admin will check count for each party.

User can vote to any party present in the list.

According to the login credentials, system will determine if the user is Administrator or the normal User and open appropriate activity.

To store data regarding user and vote count we can use SQLite DB or file storage.

For voting DB is predesigned.

Here we are using File storage so files must be created first.

Create 2 files with names textfile.txt and vote.txt using Notepad++ and save them on desktop.

Textfile.txt → This file contains loginid, adhar no and status of user in following format

```
a,1111111111111,0,b,222222222222,0,c,333333333333,0
```

vote.txt → contains vote count for each party. Initially count will be 0 for each party and will be incremented gradually as various users vote.

This file contains data in following format assuming there are 4 parties.



0,0,0,0

Now First create new android project in ECLIPSE and run on emulator.

Now Open DDMS perspective → select current emulator → FileExplorer → data → data → your\_package\_name → click on push file icon → select file from desktop

Do this for both files.

Now code xml files as per following given screen shots in ECLIPSE

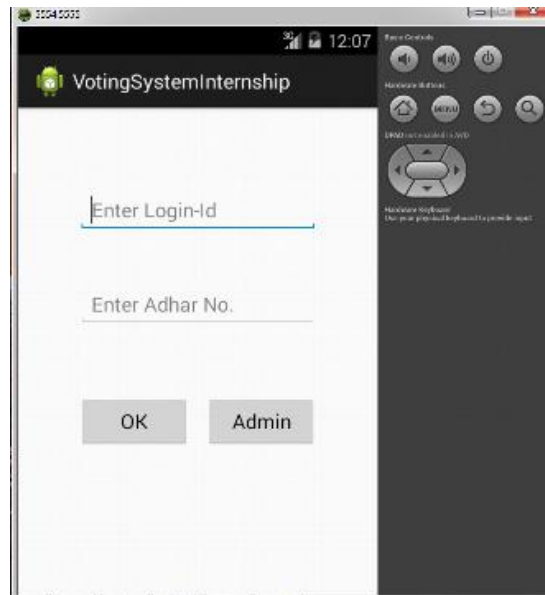
## 1. MainActivity.java => (main.xml)

This activity will accept username and password. It has a two buttons – **OK and Admin.**

When MainActivity.java is loaded, first of all textfile.txt is read. After that data from Text file is obtained into String which is separated by using Split function into String Array. When user clicks on **OK button** then username and password entered in edit text are compared with that of in **String Array**. If they are valid then further check status of that user from **String array**. If status=0 then **MainActivity.java** calls **Vote.java** If login credentials are not valid, show toast as “Not Valid User” and if status=1 then show toast as “You have already voted.”

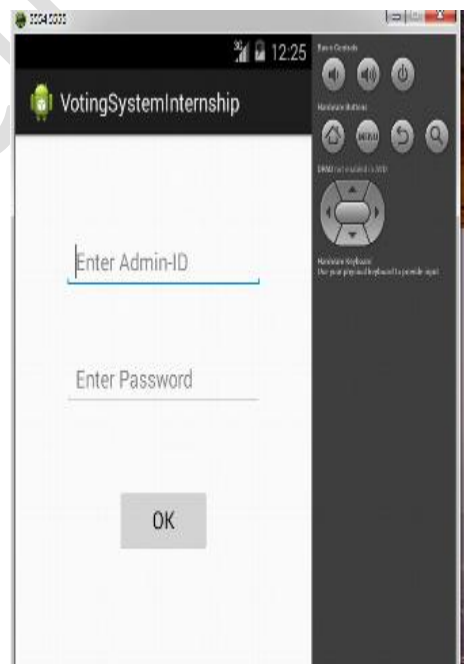


Design **main.xml** as it is in **Eclipse**.



When Admin button gets clicked then call goes to **Admin.java**

Design **admin.xml** as it is in **Eclipse**.





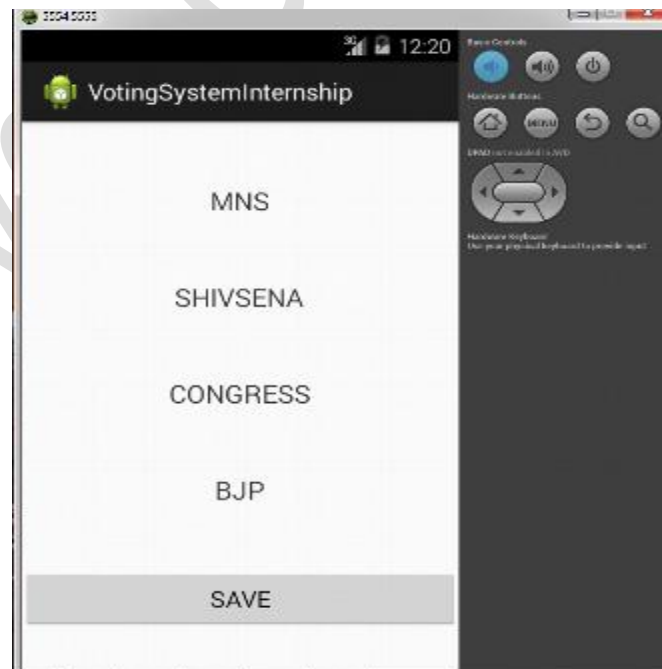
## Vote.java =>vote.xml

When Vote Activity is loaded, it reads vote.txt, textfile.txt.

Data from 2 text files is obtained into 2 Strings. Each String is separated by using Split function into separate String Array. When user select the candidate and click on save button then vote count of selected party is incremented by 1 in array and updated array is written in vote.txt file in same format mentioned above. After that **End.java is called.**

In Vote activity user can see the party Name, and give vote to the candidate by clicking on save button.

Design **vote.xml** as it is in **Eclipse** using **table Layout**.





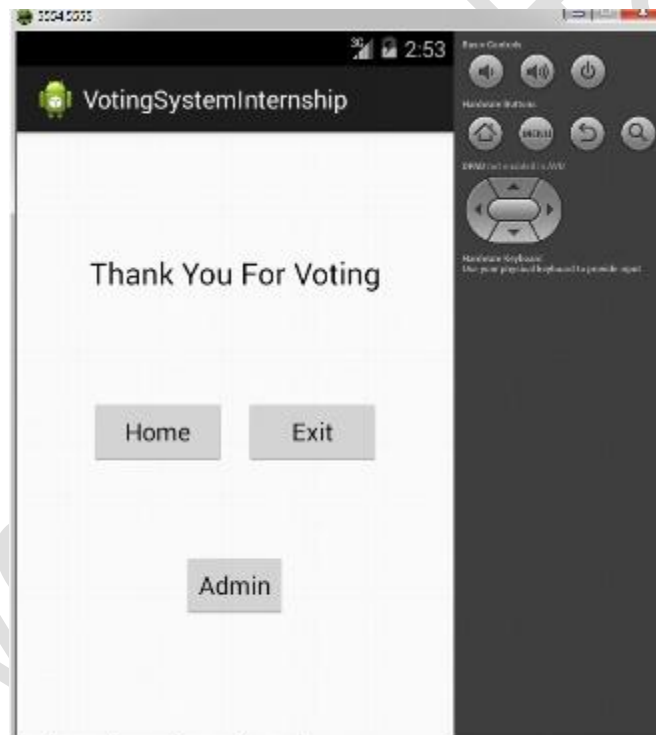
End.java => end.xml

When user clicks on **Home Button** then **MainActivity.java** is called.

When user clicks on **Exit Button** user exit from app and home screen is brought to front.

When user clicks on **Admin Button** then **Admin.java** is called.

Design **end.xml** as it is in **Eclipse**.





Admin.java => admin.xml

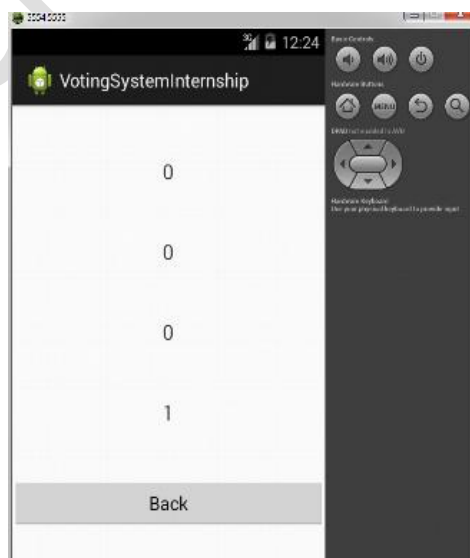
Admin logins by his login Id="asd" and password="1234567890" and clicks on Ok button. When OK is clicked call goes to Count.java

**Count.java** => (count.xml)

When Count Activity is loaded, first vote.txt is read. After that data from Text file is obtained into String which is separated by using Split function into String Array.

**Count.java** will fetch the count for each party from String Array, and will show in this activity as show in below.

Design **count.xml** as it is in **Eclipse** using **Table Layout**.





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## Sample code snippet for reading a file and split:

```
// ***** CODE TO READ FILE CONTENT (i.e. Login-Id, Adhar, Vote_Status) AS A
STRING *****
    try
    {
        FileInputStream fIn =openFileInput("login.txt");
        InputStreamReader isr = new InputStreamReader(fIn);
        char[] inputBuffer = new char[READ_BLOCK_SIZE];
        int charRead;

        while ((charRead = isr.read(inputBuffer))>0)
        {
            //---convert the chars to a String---
            String readString =String.valueOf(inputBuffer, 0,charRead);
            s += readString;
            inputBuffer = new char[READ_BLOCK_SIZE];
            System.out.print("s is "+s);
        }
        if(s!=null)
        {
            entryArray=s.split(","); //<---- ***** CODE TO PUT READ STRING INTO
ARRAY AFTER SPLITTING BY COMMA *****
        }
        else
        {
            Toast.makeText(getApplicationContext(),"File not loaded
successfully!",Toast.LENGTH_LONG).show();
        }
    }
    catch (IOException ioe)
    {
        ioe.printStackTrace();
    }

    admin.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            // TODO Auto-generated method stub
            b.putString("category","Main");
            Intent i=new Intent(MainActivity.this,Admin.class);
            i.putExtras(b);
            startActivity(i);
            finish();
        }
    });
});
```





## Code snippet for verifying Login credentials

```
ok.setOnClickListener(new View.OnClickListener() {

    @Override
    public void onClick(View v) {
        // TODO Auto-generated method stub
        login=loginEditText.getText().toString();
        adhar=adharEditText.getText().toString();

        if(login.equals("") || adhar.equals(""))
        {
            Toast.makeText(getApplicationContext(), "Enter Login-ID and Adhar No.",
Toast.LENGTH_LONG).show();
        }
        else
        {

            for(int i=0;i<entryArray.length;i=i+3)
            {
                if(adhar.equals(entryArray[i+1]) && login.equals( entryArray[i]))
                {
                    if(entryArray[i+2].equals("0"))
                    {
                        b.putString("login", login);
                        b.putString("adhar", adhar);
                        Intent in=new Intent(MainActivity.this,Vote.class);
                        in.putExtras(b);
                        startActivity(in);
                        finish();
                        break;
                    }else
                    {
                        Toast.makeText(getApplicationContext(), "You have already VOTED",
Toast.LENGTH_LONG).show();
                        loginEditText.setText("");
                        adharEditText.setText("");
                        break;
                    }
                }
            }
            else
            {
                if((i==entryArray.length-3))
                {
                    Toast.makeText(getApplicationContext(), "You are not a valid User",
Toast.LENGTH_LONG).show();
                }
            }
        }
    }
});
```