

AADHAAR BASED ONLINE VOTING SYSTEM

A PROJECT REPORT

SUBMITTED BY

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AT

ECIL-ECIT

(ELECTRONIC CORPORATION OF INDIA LIMITED)

UNDER THE ESTIMATED GUIDANCE OF

Mr. L. VASUDEVA MURTHY (Head, CED)

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE ENGINEERING



ST.MARTIN'S ENGINEERING COLLEGE

DHULAPALLY ROAD,DHULAPALLY,,NEAR KOMPALLY

(AFFILIATED TO JNTUH)

ACKNOWLEDGEMENT

We wish to take this opportunity to express our deep gratitude to all the people who have extended their cooperation in various ways during our project work. It's our pleasure to acknowledge the help of all those individuals.

We would like to thank **Mr. L.VASUDEVA MURTHY** and our project guide Mrs. **A. RESHMA RANI** for guidance and help throughout development of this project work by providing us with required information. Without her guidance, cooperation and encouragement, we couldn't learn many new things during our project tenure.

We would like to thank **Mr.P.UDAYA KUMAR (HOD, CSE DEPT)** for his encouragement and valuable guidance in bringing shape to dissertation.

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(CS1019)

DECLARATION

We hereby declare that the project entitled “**AADHAAR BASED ONLINE VOTING SYSTEM**” Submitted for the B. Tech in **COMPUTER SCIENCE ENGINEERING**. This dissertation is our original work and the project has not formed the basis for the award of any degree, associate ship, fellowship or any other similar titles and no part of it has been published or sent for the publication at the time of submission.

P. SAI DURGA SHASHIDHAR
(CS1019)

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1 INTRODUCTION

1.1 ABSTRACT

TITLE OF PROJECT: AADHAAR BASED ONLINE VOTING SYSTEM

Introduction:

Aadhar based online voting system is developed for Indian elections. The proposed model has a greater security in the sense that voter high security password is confirmed before the vote is accepted in the main database of Election Commission of India. The additional feature of the model is that the voter can confirm if his/her vote has gone to correct candidate/party. In this model a person can also vote from outside of his/her allotted constituency or from his/her preferred location. In the proposed system the tallying of the votes will be done automatically, thus saving a huge time and enabling Election Commissioner of India to announce the result within a very short period.

MODULES DESCRIPTION

The system after careful analysis has been identified to be presented with the following modules:

The Modules involved are

1. Authentication and Security Module
2. Admin
3. Users

Authentication and Security Module

User/ Political parties should register should register here for getting login permissions. Admin will verify the details and accept or reject the user/Political parties. Once admin accept the user/political party registration then only they can login.

Admin Module

Admin can login to the system by default user name and password then he can change the login credentials. Admin can accept or reject the users and political parties. Admin can view the list of parties and users. Admin has to announce the election dates and results. Admin has to maintain previous records and generate reports based on previous records.

User Module

Users have to enroll them self with name, mobile, email, address, aadhar number etc. Once admin accepts the registration users can login into system and they can view list of

parties. They can vote. Users can change the passwords and update the profile. They can view election results.

Reports Module

Generally all users of the system are interested in viewing various reports. This module is concerned in generating the reports of their choice. Reports will be generated by admin.

2 ORGANIZATION PROFILE

NAME OF THE ORGANIZATION: ELECTRONICS CORPORATION OF INDIA
LIMITED

Website: <http://www.ecil.co.in/ecil/>

HISTORY:

ECIL was setup under the department of Atomic Energy in the year 1967 with a view to generate a strong indigenous capability in the field of professional grade electronic. The initial accent was on self-reliance and ECIL was engaged in the Design Development Manufacture of several products emphasis on three technology lines viz. Computers, control systems and communications. ECIL thus evolved as a multi-product company serving multiple sectors of Indian economy with emphasis on import of country substitution and development of products and services that are of economic and strategic significance to the country.

Electronic Corporation of India Limited (ECIL) entered into collaboration with OSI systems Inc. (www.osi-systems.com) and setup a joint venture “ECIL_RAPSICAN LIMITED”. This joint Venture manufacture the equipment’s manufactured by RAPSICAN, U.K, U.S.A with the same state of art Technology, Requisite Technology is supplied by RAPSICAN and the final product is manufactured at ECIL facility.

Recognizing the need for generating the quality IT professional and to meet the growing demand of IT industry, a separate division namely CED has been established to impart quality and professional IT training under the brand name of ECIT. ECIT, the prestigious offshoot of ECIL is an emerging winner and is the fore front of IT education in the country.

VISION:

To develop country in achieving self-reliance in strategic electronics.

MISSION:

ECIL’s mission is to consolidate its status as a valued national asset in the area of strategic electronics with specific focus on Atomic Energy, Defence, Security and such critical sectors of strategic national importance.

OBJECTIVES:

To continue services to the country's needs for the peaceful uses Atomic Energy. Special and Strategic requirements of Defense and Space, Electronics Security and Support for Civil aviation sector.

To establish newer Technology products such as Container Scanning Systems and Explosive Detectors.

To re-engineer the company to become nationality and internationality competitive by paying particular attention to delivery, cost and quality on all its activities.

To explore new avenues of business and work for growth in strategic sectors in addition to working realizing technological solutions for the benefits of society in areas like Agriculture, Education, Health, Power, Transportation, Food, Disaster Management etc.

DIVISIONS:

The company is organized into divisions serving various sectors, national and commercial importance. They are Divisions serving nuclear sector like Control And Automation(CAD), Instruments and Systems Divisions(ISD), Divisions Serving defense sector like Communications Division(CND), Antenna Products Division(APD), Servo Systems Division(SSD) etc., Divisions handling Commercial Products are Telecom Division(TCD), Customer Support Division(CSD), Computer Education Division(CED).

EXPORTS:

ECIL is currently operating in major business EXPORT segments like instruments and systems design, Industrial/Nuclear, Server Systems, Antenna Products, Communication, Control and Automation and several other components.

SERVICES:

The company played a very significant role in the training and growth of high caliber technical and managerial manpower especially in the fields of Computers and Information technology. Though the initial thrust was in meeting the Controls and Instrumentation requirements of the Nuclear Power Program, the expanded scope of self-reliance pursued by ECIL enabled the company to develop various products to cater to the needs of Defense, Civil Aviation, Information and Broadcasting, Telecommunications, etc.

3 PROBLEM DEFINITION

The Existing system for Civil Registry maintains the relevant data across the files and ledgers. The concerned authorities must update the data regarding to the government records and Register certificates and send the same to citizens. The authorities must collect the data from various departments and register certificates. The system lacks coordination among the various departments.

The citizens have to apply for the required Government records at the respective offices by filling the appropriate forms. Manual checking for the attested identify proofs is required which consumes much effort and time as different records are handled by different authorities. No particular notification will be provided before the rejection of the form for any cause or reason. Presently all the registrations are done manually.

If a person wants to make registrations like birth, death, marriage etc..... he should directly contact the corresponding office. The main disadvantage is that there will be lot of difficulties for the citizens. So all these procedures will be a time consuming one. The applications from the users of all are maintained at the single authority where all the verifications will be done. This increase the manual work as the authorities must collect the data from various departments and agencies. Due to this there arises chances of clubbing and misplacement of data which results in mistakes in the certificate issued.

4 SYSTEM ANALYSIS

4.1 EXISTING SYSTEM:

From 1998, Ballot boxes were replaced by Electronic Voting Machine in India. A Control Unit and a Balloting Unit, these two units are a part of Electronic Voting Machine which is connected by a five-meter cable. The Control Unit is located with the Polling Officer and therefore the Balloting Unit is located inside the voting compartment. Instead of supplying a ballot paper, the Polling Officer can press the Ballot Button. Rather than issuing a ballot paper, the Polling Officer will press the ballot Button. This will allow the voter to cast his vote by means of pressing the blue button on the voting Unit against the candidate and symbol of his choice.

4.2 PROPOSED SYSTEM:

Aadhaar based voting system is aimed at developing a web-based system. This system is completely automated. In this system the person can register online and do many things. The details of all the things are made available to them through the single website.

ADVANTAGES

1. Peoples can vote without going to their home constituency on the Election Day means they can vote from their current city.
2. Illegal Voting will totally remove because of Fingerprint (a biometric trait which is unique to each individual).
3. Aadhar's database permits only eligible voters to vote and, it also ensures that eligible voters vote only once.
4. It maintains privacy means authority; ballot officer or anyone else can not link any ballot to the voter.
5. The major benefit of this system is to increase the voting percentage.
6. It also saves time as well as money of traveling.
7. Quick results are possible.

5 FEASIBILITY STUDY

Feasibility study tries to determine whether a given solution will work or not. Its main objective is not to solve the problem, but to acquire its scope. It focuses on following:

- ❖ Meet user's requirements.
- ❖ Best utilization of available resources.
- ❖ Develop a cost effective system.
- ❖ Develop a technically feasible system.

5.1 TYPES OF FEASIBILITY:

The feasibility report of the project holds the advantages and flexibility of the project. This is divided into four sections:

- ❖ Technical Feasibility
- ❖ Economical Feasibility
- ❖ Legal Feasibility
- ❖ Operational Feasibility
- ❖ Schedule Feasibility

TECHNICAL FEASIBILITY

The assessment is based on the outline design of system requirements in terms of Input, Process, Output, Fields, Programs, and Procedures. This can be quantified in terms of volumes of data, trends, frequency of updating, etc.. in order to estimate where the new system will perform adequately or not. Technology Feasibility is carried out to determine whether the company has the capability, in terms of software, hardware, personnel and expertise, to handle the completion of project.

ECONOMIC FEASIBILITY:

Economic analysis is the most frequently used method for evaluating the effectiveness of the new system. More commonly known as cost/benefit analysis, the procedure is determining the benefits and savings that are expected from a candidate and compare them with costs. If benefits outweigh costs, then the decision is made to design and implement the system.

LEGAL FEASIBILITY:

Determines whether the proposed system conflicts with legal requirements, eg - a data processing system must comply with the local protection acts.

OPERATIONAL FEASIBILITY:

It is a measure of how well a proposed system solves problems, and takes advantage of the opportunity identified during scope definition and how it satisfies the requirements identified in the requirement analysis phase of a system.

SCHEDULE FEASIBILITY:

A project will fail if it takes too long to be completed before it is used. Typically this means estimating how long the system will take to develop and if it can be completed in a given time period using so many methods like pay back period. Schedule feasibility is a measure how the responsible the project timetable is.

6 PROJECT OVERVIEW

PROJECT MODULES:

Aadhar based online voting system is developed for Indian elections. The proposed model has a greater security in the sense that voter high security password is confirmed before the vote is accepted in the main database of Election Commission of India. The additional feature of the model is that the voter can confirm if his/her vote has gone to correct candidate/party. In this model a person can also vote from outside of his/her allotted constituency or from his/her preferred location. In the proposed system the tallying of the votes will be done automatically, thus saving a huge time and enabling Election Commissioner of India to announce the result within a very short period.

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6.5 Reports Module

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7 DEFINITIONS, ACRONYMS, ABBREVIATION

HTTP:

Hyper Text Transfer Protocol is a transaction oriented client server protocol between the browser and a web server.

HTML:

Hyper Text Markup Language is a programming platform- part of the Java platform- for developing and running distributed multi tier architecture Java applications, based largely on modular software components running on an application server.

JDBC:

Java Data Base Connectivity which is used to connect the databases with the java.

DBMS:

Data Base Management System which is used to store information. We can retrieve information from the records in the form of the queries.

JSP:

Java Server Pages is a Java technology that helps software developers serve dynamically generated web pages based on HTML.

8 SYSTEM REQUIREMENTS

SOFTWARE REQUIREMENTS:

Operating System	:	Windows 7/10
Technology	:	Java/J2EE (Servlets, JSP, JDBC)
Web Technologies	:	Html, JavaScript, CSS
Web Server	:	Tomcat 7.0
Database	:	MySql
Software's	:	JDK 1.7

HARDWARE REQUIREMENTS:

Processor	:	Pentium based systems with a minimum of P4
RAM	:	1 GB (Minimum)

9. TECHNOLOGIES

TECHNOLOGIES

Front End or User Interface Design:

The entire user interface is planned to be developed in browser specific environment with touch of intranet-based architecture for achieving the distributed concept.

The browser specific components are designed using the html standards and dynamism of the designed by concentrating on the constructs of the java server pages.

Communication or Database Connectivity Tier:

The communications architecture is designed by concentrating on the standards of servlets, and enterprise Java Beans. The database connectivity is established using Java database connectivity.

The standards of three tier architecture are given major concentrations to keep the standards of higher cohesion and limited coupling for effectiveness of the operations.

Languages Used:

In our project, we have chosen Java language for developing the code.

Java:

Java is a programming language originally developed by James Gosling at Sun Micro Systems and released in 1995 as a core component of Sun Micro Systems as a java platform. The language derives much of its syntax from C and C++ but has a simpler object model and fewer low level facilities. Java applications are typically compiled to byte code that can run on any java virtual machine regardless of computer architecture.

The original and reference implementation java compilers, virtual machines and class libraries were developed by Sun from 1995. As of may 2007, in compliance with the specification of the java communication process, Sun relicensed most of its java technologies under the GNU General Public License.

Principles:

There were five primary goals in creations of the java language. It should be simple,

object-oriented, and familiar.

1. It should be robust and secure
2. It should be architecture neutral and portable
3. It should execute with high performance
4. It should be interpreted and dynamic

Syntax:

The syntax of java is largely derived from C++. Unlike C++ which combines from structure, generic and object-oriented programming. Java was built almost exclusively as an object-oriented language. All code is written in a class and everything is object with the exception of intrinsic data type, which is a not cause for performance reasons.

Java suppresses several features for classes in order to simplify the language and to prevent possible errors anti pattern design.

JSP (JAVA SERVER PAGES)

Java Server Pages (JSP) is a Java technology that allows software developers to dynamically generate HTML, XML or other types of documents in response to a Web client request. The technology allows Java code and certain pre-defined actions to be embedded into static content.

The JSP syntax adds additional XML-like tags, called JSP actions, to be used to invoke built-in functionality. Additionally, the technology allows for the creation of JSP tag libraries that act as extensions to the standard HTML or XML tags. Tag libraries provide a platform independent way of extending the capabilities of a Web server.

JSPs are compiled into Java Servlets by a JSP compiler. A JSP compiler may generate a servlet in Java code that is then compiled by the Java compiler, or it may generate byte code for the servlet directly. JSPs can also be interpreted on-the-fly reducing the time taken to reload changes.

Java Server Pages (JSP) technology provides a simplified, fast way to create dynamic web content. JSP technology enables rapid development of web-based applications that are server- and platform independent.

JDBC

JDBC (Java Database Connectivity) is an API developed by Sun Microsystems that provides a standard way to access data using the Java programming language. Using JDBC, an

application can access a variety of databases and run on any platform with a Java Virtual Machine.

It isn't necessary to write separate applications to access different database systems (Oracle and Sybase, for example). Using JDBC allows you to write one application that can send SQL statements to different database systems. SQL is the standard language for accessing relational databases.

The JDBC API defines a set of Java interfaces that encapsulate major database functionality, such as running queries, processing results, and determining configuration information.

Because JDBC applications are written in Java, applications work on any platform.

The JDBC API makes it possible to do three things:

- Establish a connection with a database or access any tabular data source
- Send SQL statements-
- Process the results

JDBC DRIVERS:

Today, there are four types of JDBC drivers in use:

Type 1: JDBC-ODBC bridge

Type 2: partial Java driver

Type 3: pure Java driver for database middleware

Type 4: pure Java driver for direct-to-database

In this project we are using Type 1 driver which provides best database connectivity for internet based application.

Type 1 JDBC Driver

JDBC-ODBC Bridge driver

The Type 1 driver translates all JDBC calls into ODBC calls and sends them to the ODBC driver. ODBC is a generic API. The JDBC - ODBC Bridge driver is recommended only for experimental use or when no other alternative is available.

Advantage:

The JDBC-ODBC Bridge allows access to almost any database, since the database's ODBC drivers are already available.

Disadvantages:

1. Since the Bridge driver is not written fully in Java, Type 1 drivers are not portable.
2. A performance issue is seen as a JDBC call goes through the bridge to the ODBC driver, then to the database, and this applies even in the reverse process. They are the slowest of all driver types.
3. The client system requires the ODBC Installation to use the driver.
4. Not good for the Web.

MySQL

The database which we are using is the MYSQL database. It's an open source and easily manageable, and is very much compatible with Java.

MySQL's open source database is the "M" in LAMP - the software platform comprised of

Linux, Apache, MySQL and PHP/Perl often viewed as the foundation of the Internet. Sun is committed to enhancing and optimizing the LAMP stack on GNU/Linux and Microsoft Windows along with Open Solaris and MAC OS X. The database from MySQL, Open Solaris and Glassfish, together with Sun's Java platform and Net Beans communities, will create a powerful Web application platform across a wide range of customers shifting their applications to the Web.

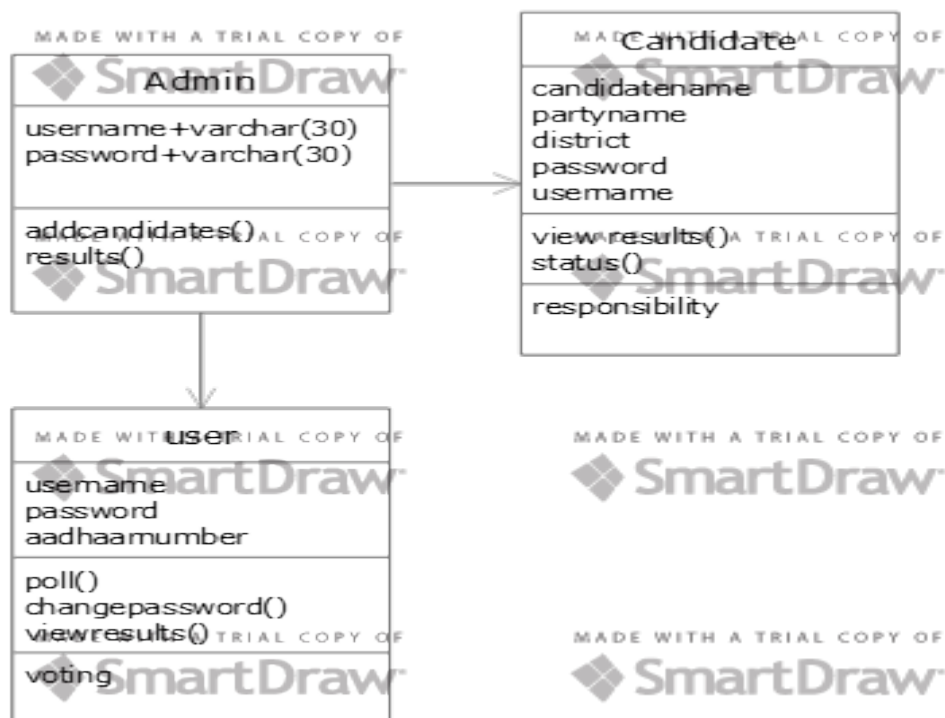
More than 100 million copies of MySQL's high-performance open source database software have been downloaded and distributed and an additional 50,000 copies are downloaded daily.

This broad penetration coupled with MySQL's strength in Web 2.0, Software as a Service, enterprise, telecom and the OEM embedded market make it an important fit for Sun. With MySQL, Sun will have the ability to deepen its existing customer relationships and create new opportunities with companies seeking the flexibility and ease-of-use of open source systems.

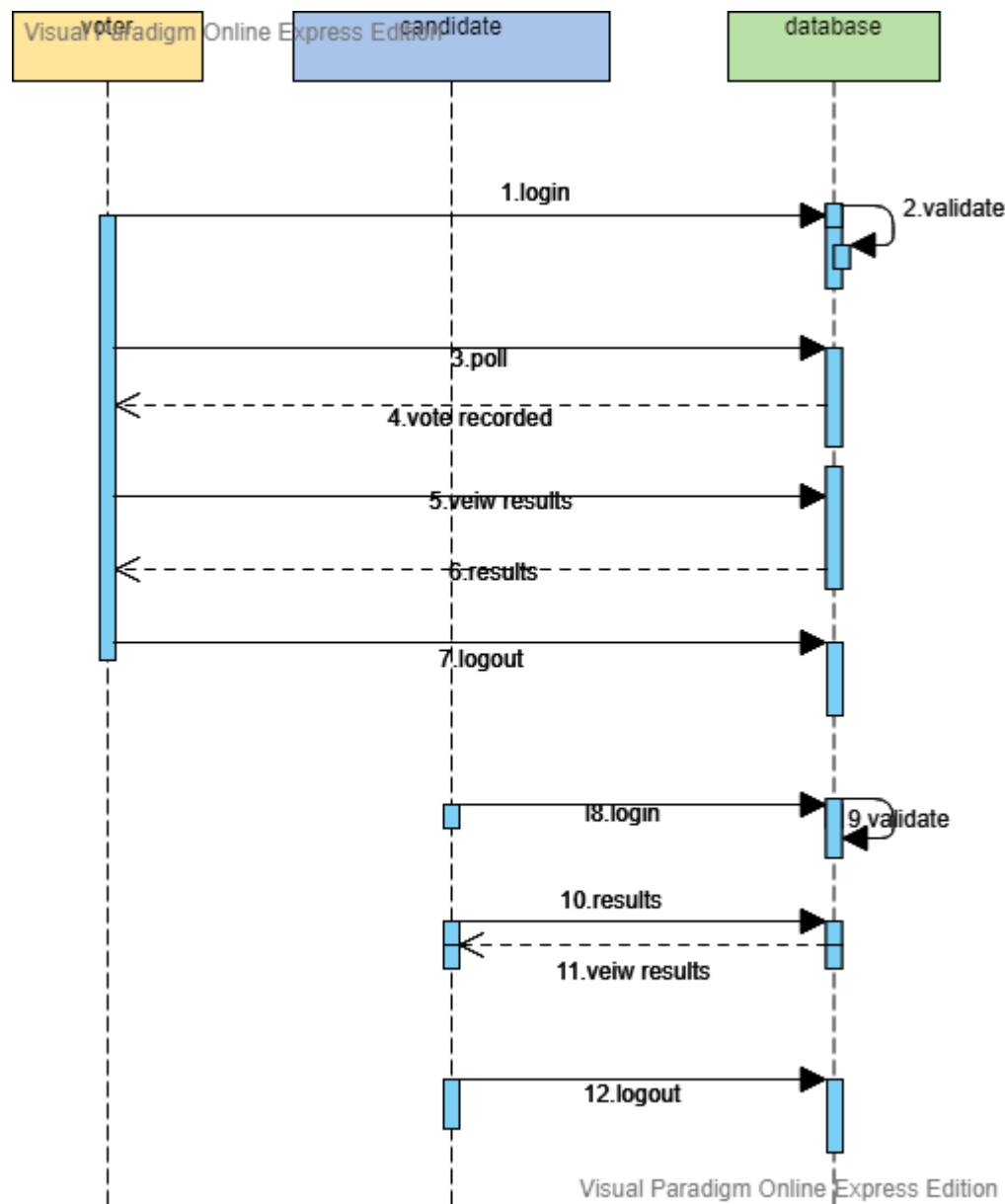
10 SYSTEM DESIGN

UML DIAGRAMS

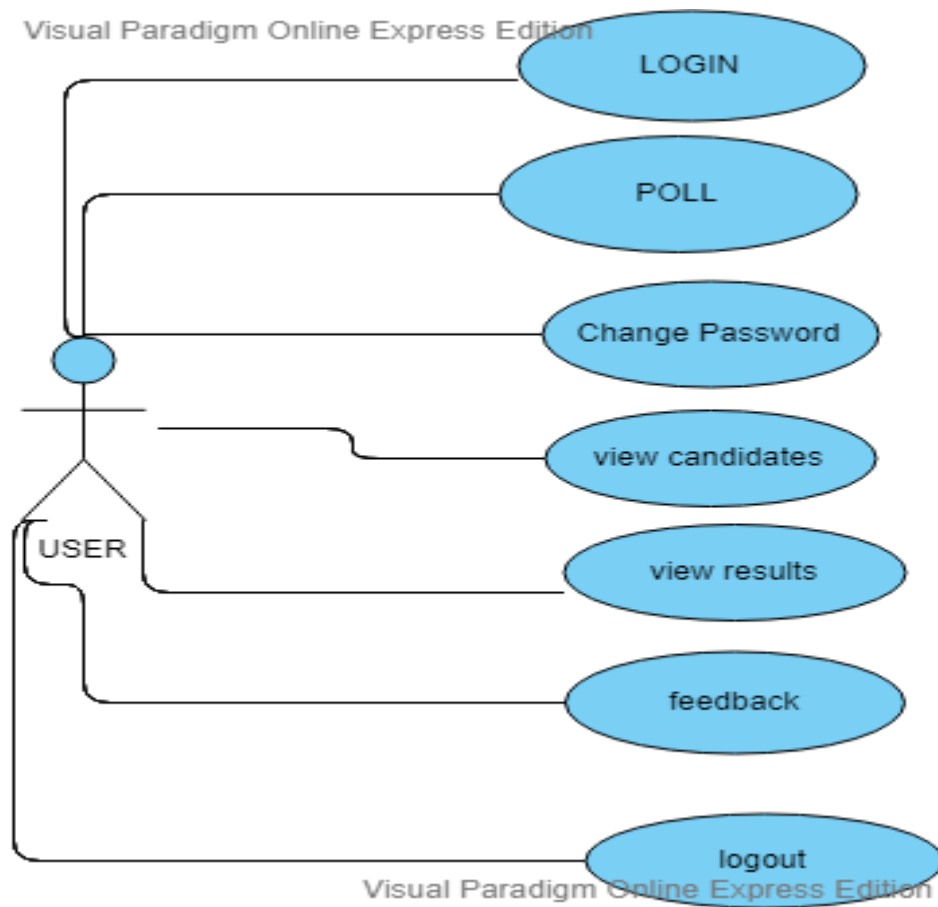
CLASS DIAGRAM



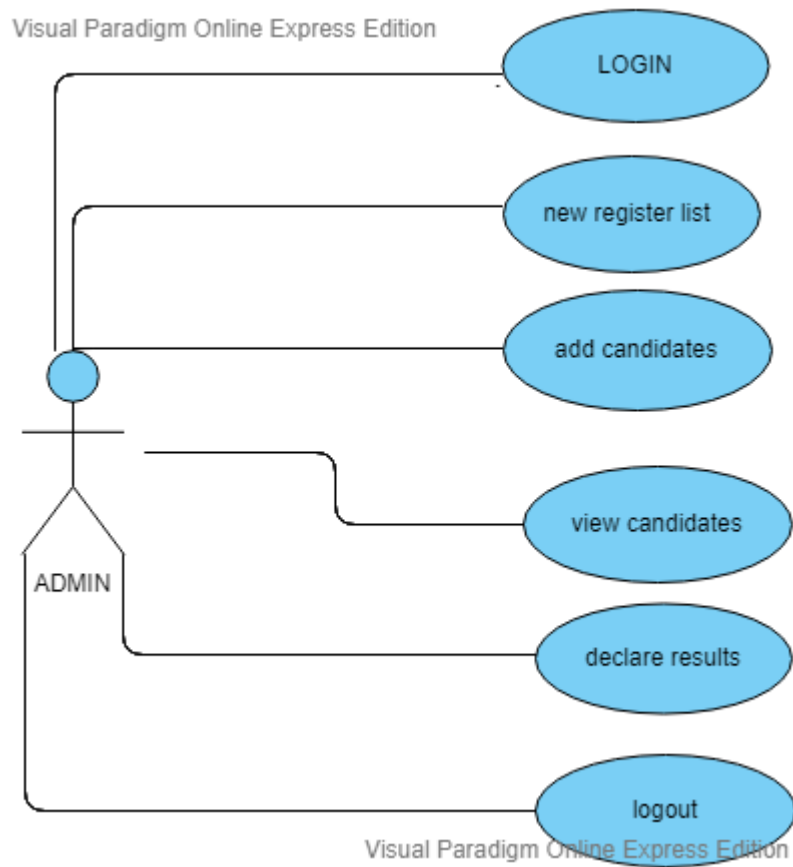
SEQUENCE DIAGRAM :



USECASE DIAGRAM OF USER:

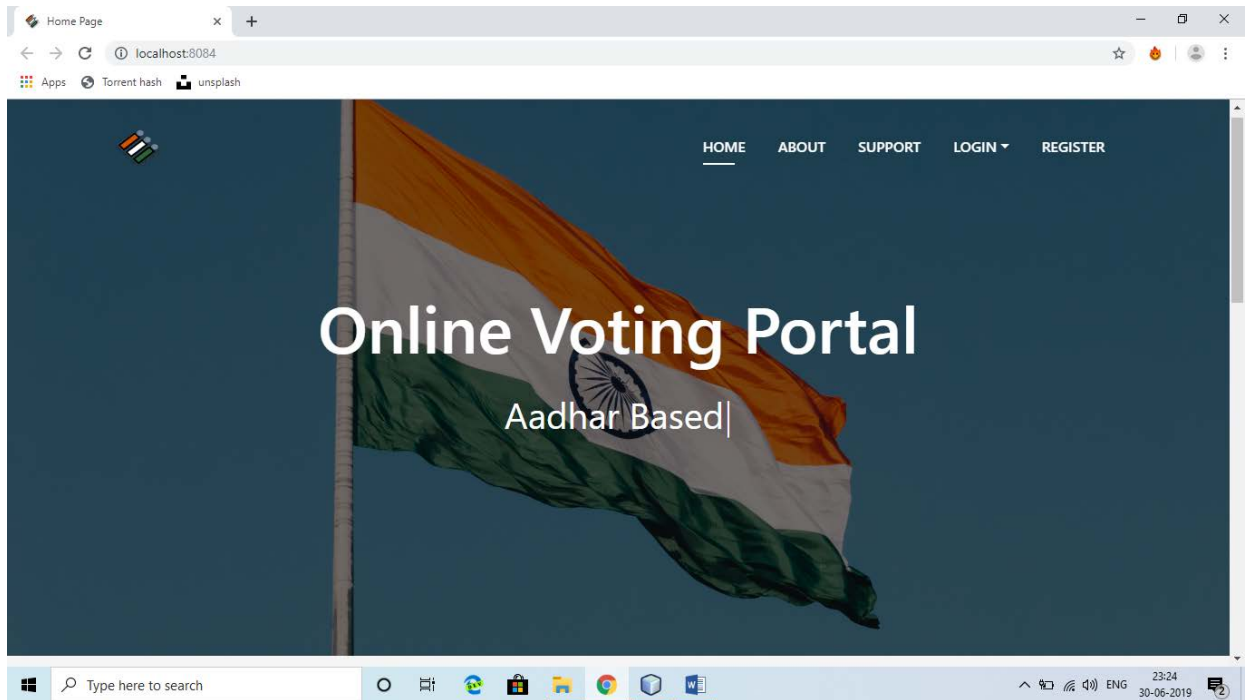


USECASE FOR ADMIN:



11 SCREEN

HOME PAGE:



USER LOGIN:

Login Page

localhost:8084/signin.jsp

HOME ABOUT SUPPORT LOGIN REGISTER

LOGIN

Username

Password

Submit

Type here to search

23:38 30-06-2019

ADMIN LOGIN:

Login Page

localhost:8084/signadmin.jsp

HOME ABOUT SUPPORT LOGIN REGISTER

ADMIN LOGIN

Username

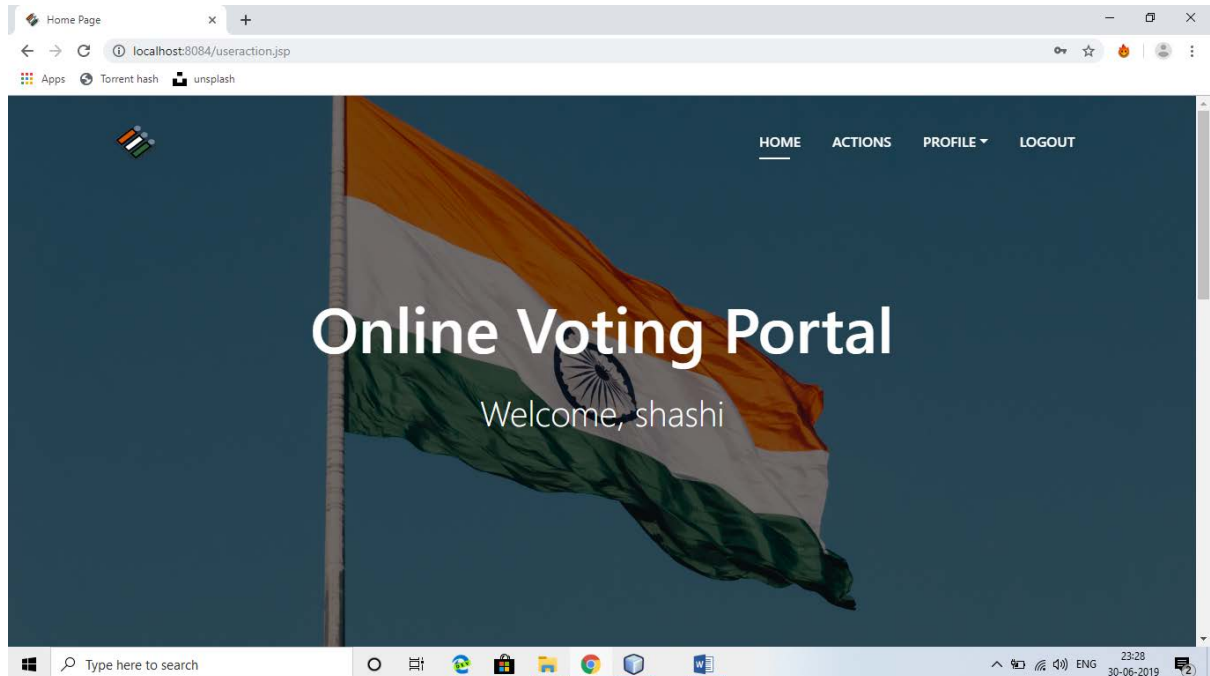
Password

Submit

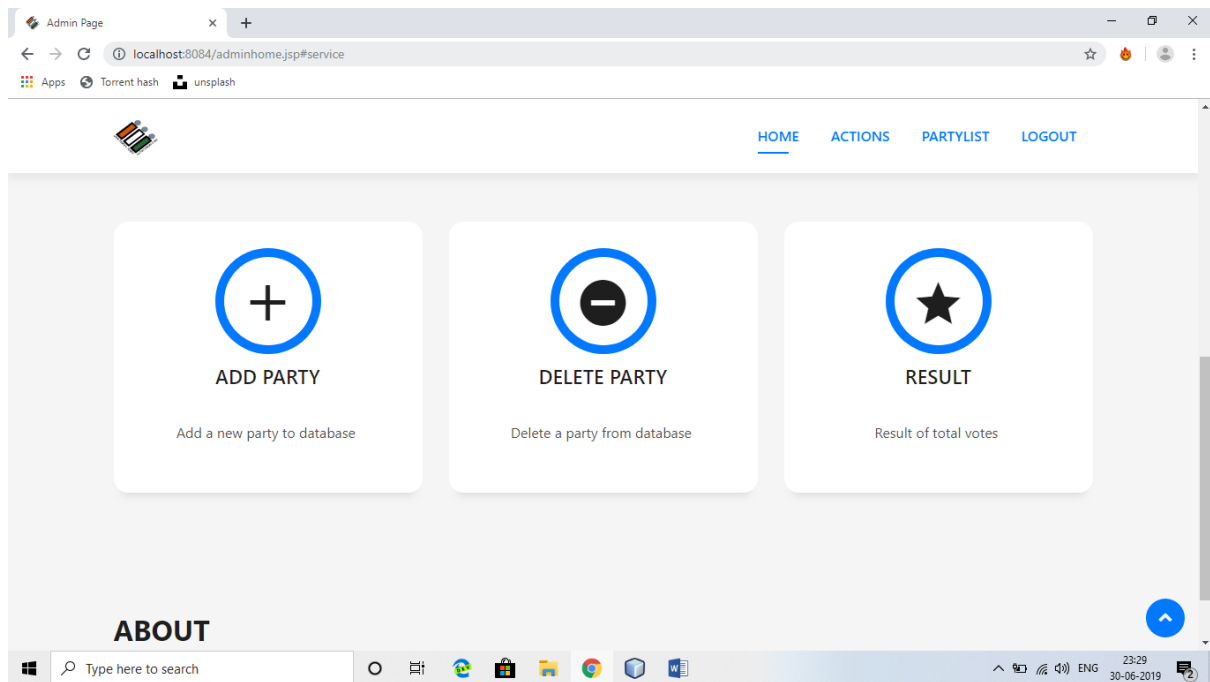
Type here to search

23:39 30-06-2019

USER HOME PAGE:



ADMIN HOME PAGE:



POLLING HOME:

Login Page x +

localhost:8084/vote.jsp

Apps Torrent hash unsplash

HOME ACTIONS PROFILE * LOGOUT

CAST YOUR VOTE

Aadhar Number

1222-2221-1222

Area

Choose...

Party

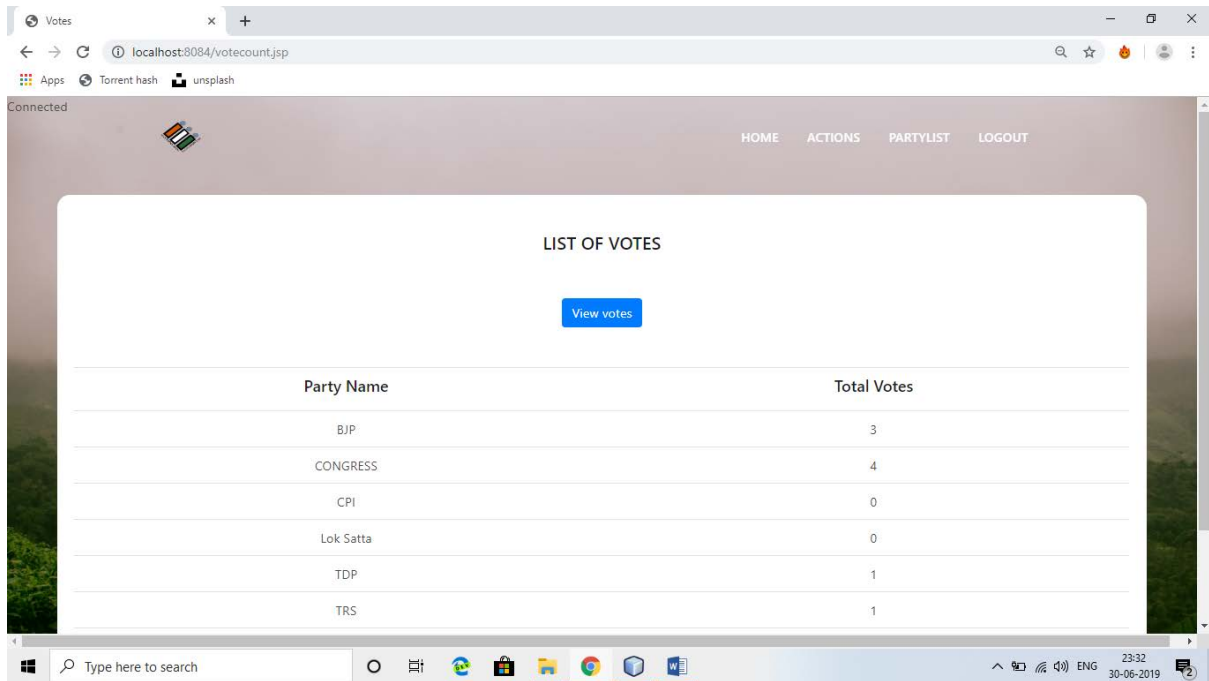
- ☐ BJP
- ☐ CONGRESS
- ☐ CPI
- ☐ Lok Satta
- ☐ TDP
- ☐ TRS
- ☐ YSRCP

Vote

Type here to search

23:31 30-06-2019

RESULTS COUNT:



Connected

HOME ACTIONS PARTYLIST LOGOUT

LIST OF VOTES

[View votes](#)

Party Name	Total Votes
BJP	3
CONGRESS	4
CPI	0
Lok Satta	0
TDP	1
TRS	1

Type here to search

23:32 30-06-2019 ENG

RESULT PAGE:

Votes x +

localhost:8084/viewvotes.jsp

Apps Torrent hash unsplash

HOME ACTIONS PARTYLIST LOGOUT

LIST OF VOTES

View Count

Aadhar ID	Party name
0988-1673-6532	TRS
111	CONGRESS
1111	CONGRESS
11222	BJP
12	
1222-2221-1222	BJP
1234	

Type here to search

23:34 30-06-2019

EDIT PROFILE:

Edit Profile

localhost:8084/editprofile.jsp

Apps Torrent hash unsplash

HOME ACTIONS PROFILE LOGOUT

EDIT YOUR DETAILS

Email
sailthechinu@gmail.com

Username
shashi

Voter ID
111111

Aadhar Number
1222-2221-1222

Mobile No.
6500895709

Date Of Birth
dd-mm-yyyy

Password

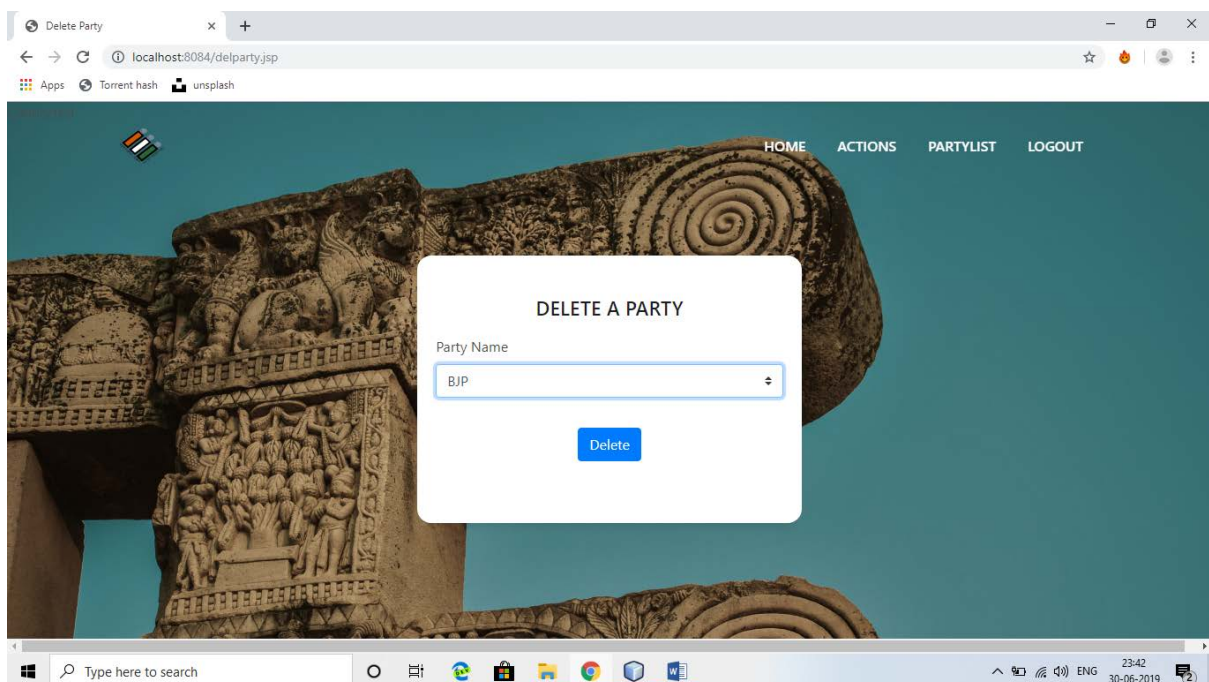
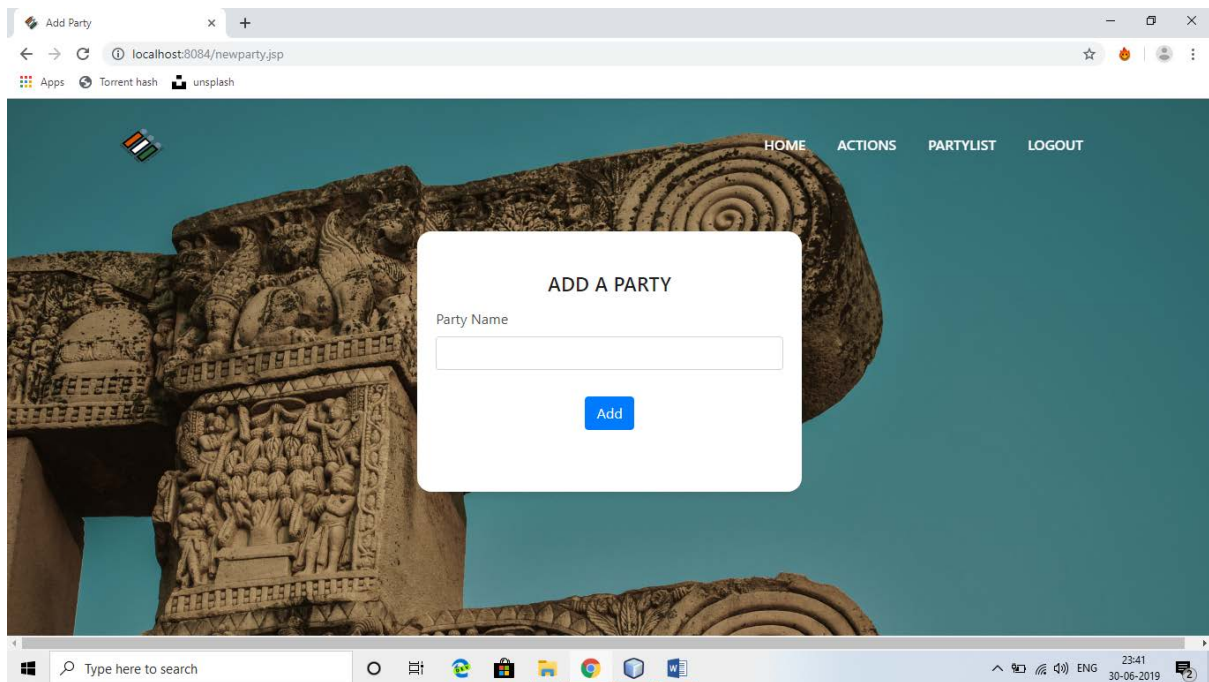
Confirm Password

Change Cancel

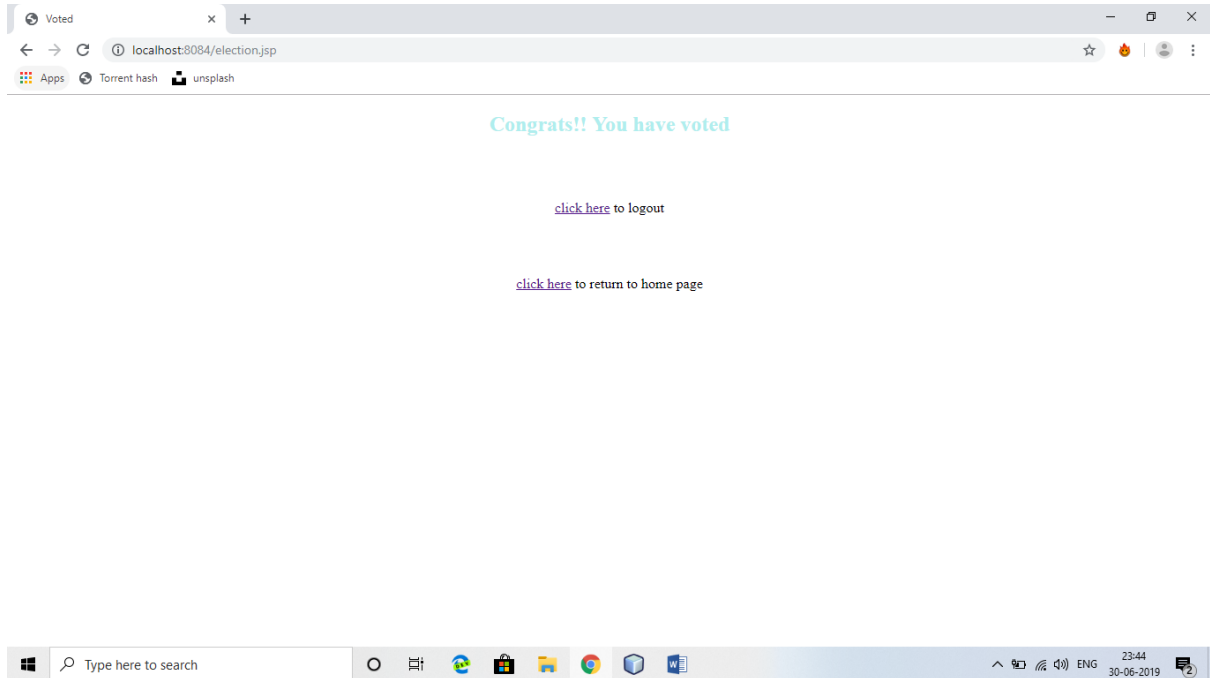
Type here to search

23:36
30-06-2019

ADD AND DELETE PARTY:



THANK YOU PAGE:



12 DATABASE DESIGN

DATABASE TABLES:

✓ USER REGISTRATION

FIELD NAME	DATA TYPE	Key
ID	Varchar	Primary key
FIRSTNAME	Varchar	
LASTNAME	Varchar	
DOB	Varchar	
DISTRICT	Varchar	
AADHAARNUMBER	INT	Unique
USERNAME	Varchar	
PASSWORD	Varchar	

ADD CANDIDATES

Field Name	Data Type	Key
CANDIDATENAME	Varchar	Primary key
PARTYNAME	Varchar	
DISTRICT	Varchar	

REGISTER CANDIDATES

Fiel dName	Data Type	Key
ID	Varchar	Primary key
FIRSTNAME	Varchar	
LASTNAME	Varchar	
PARTYNAME	Varchar	
DISTRICT	Varchar	
SYMBOL	Varchar	
USERNAME	Varchar	

PASSWORD	Varchar	
----------	---------	--

VOTES COUNT

Field Name	Data Type	Key
CANDIDATENAME	Varchar	Primary key
PARTYNAME	Varchar	
DISTRICT	Varchar	
VOTES	INT	

13 TEST REPORT AND TEST PLAN

Software testing is an investigation conducted to provide stakeholders with information about the quality of the product or service under test. Software testing also provides an objective, independent view of the software to allow the business to appreciate and understand the risks of software implementation. Test techniques include, but are not limited to, the process of executing a program or application with the intent of finding software bugs (errors or other defects).

Software testing can also be stated as the process of validating and verifying that a software program / application / product:

Meets the business and technical requirements that guided its design development;

1. Works as expected ; and
2. Can be implemented with the same characteristics.

Software testing, depending on testing method employed, can be implemented at any time in development process. However, most of the test effort occurs after the requirements have been defined and coding process has been completed. As such, the methodology of the justice governed by the software development methodology adopted.

Different software development models will focus the test effort at different points in development process. Newer development process such as Agile, often employee test driven development and place an increased portion of the testing in hands of developer before it reaches a formal team of tester. In a more traditional model, most of the test execution occurs after the requirements have been defined and the coding process has been completed.

TEST REPORT:

1. PROJECT NAME:AADHAAR BASED VOTING SYSTEM
2. FORM NAME: USER LOGIN
3. UNIT NAME: Username, password,aadhhar number
4. TEST RESULT: After entering two fields the user successfully logs into the

system.

TEST PLAN 1:

Unit id: Login

Test case id: Username

Test Type: Unit Testing

Form Name: Login

Base Table: users

Purpose: To give access to user after he enters valid user id

Description: Username varchar (20), Primary Key.

TEST DATE:

S.NO	Input	Excepted output	Results
1.	Column Name:		
	Username:	Login-Success Screen	Login-in Success Screen
	Invalid Input	Error Message	Login Page

TESTPLAN 2

Unit id: poll

Test case id:aadhaar number

Test Type: Unit Testing

Form Name: Poll

Base Table: Candidates

Purpose: To vote for the candidates who are standing.

Description: Keyword varchar (20), Primary Key.

S.NO	Input	Excepted output	Results
1	Column Name:		
	Keyword:	Thankyou page	Thankyoy page
	Invalid Input	Error Message	Error Message

14 CONCLUSION

Online Voting Systems have many advantages over the traditional voting system. Some of these advantages are less cost, faster generation results, easy accessibility, accuracy, and low risk of human and mechanical errors. It is very difficult to develop online voting system which can allow security and privacy on the high level. Future development focused to design a system which can be easy to use and will provide security and privacy of votes on acceptable level by proper authentication and processing section.. It is easy to use and it is less time consuming. It is very easy to debug

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