PROJECT REPORT

"Online Voting System"

Guided By:
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Submitted By:
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TITLE OF THE PROJECT

"Online Voting System"

PROJECT CATEGORY

"Online Voting System" is an Enterprise Resource Planning. It is a web based application. It can be accessed using a browser e.g. Chrome and Internet Explorer etc.

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Ms. Shilpa Pathak

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Abstract

The Project is developed for the threat free and user oriented Online Voting System. The Online Voting system is made for the people of the country residing around the world and wants to vote for their representative. The election can be conducted in two ways the paper ballot election and the automated ballot elections.

The automated ballot elections are called the electronic voting. The online voting system is highly developed and the online polling system can be replaced by accurately and directly voting online and immediate results. The system Administrator registers the voters on a special site of the system visited by him only by simply filling a registration form to register voter.

After registration, the voter is assigned a secret Voter ID with which he/she can use to log into the system and enjoy services provided by the system such as voting.

Acknowledgement

I express my Gratitude to Ms. Shilpa Pathak for his help, guidance throughout the work for this project without which I would not have been able to complete this project to such a success.

I would also like to thank my classmates who helped me directly or indirectly in accomplishing this work

Finally I would also like to thank other faculty members who provided me with Moral support during the course of this project.

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Introduction

"ONLINE VOTING SYSTEM" is an online voting technique. In this system people who have citizenship of India and whose age is above 18 years of age and any sex can give his\her vote online without going to any physical polling station.

There is a database which is maintained in which all the names of voters with complete information is stored. In "ONLINE VOTING SYSTEM" a voter can use his\her voting right online without any difficulty. He\She has to be registered first for him/her to vote.

The system Administrator registers the voters on a special site of the system visited by him only by simply filling a registration form to register voter.

Citizens seeking registration are expected to contact the system administrator to submit their details. After the validity of them being citizens of India has been confirmed by the system administrator by comparing their details submitted with those in existing databases such as those as the Registrar of Persons, the citizen is then registered as a voter. After registration, the voter is assigned a secret Voter ID with which he/she can use to log into the system and enjoy services provided by the system such as voting. If invalid/wrong details are submitted, then the citizen is not registered to vote.

Objective

The main objectives of system for Online voting system are:

- ✓ The objective of Online voting system is to help the organization in automating the whole manual processing of the existing system.
- ✓ The main objective to develop the system is to make the accurate & efficient decisions in different tasks at different time at different situations. The existing system is manual so members of the unit generally face a lot of embarrassing situations many times. Now they need to automate the whole process so as to make it more easy and accurate.
- ✓ System should support multi-user environment.
- ✓ System should be fully automated.
- ✓ System should provide concrete security features like creating users and assigning privileges to users of the system.
- ✓ System should be capable to keep track of all the detailed descriptions of the client and the whole details of services offered by the client organization.
- ✓ Various outputs (reports) should be available online any time.

Project category

ERP Stands for "Enterprises Resource Planning."

ERP is a Business management software. It is a suite of integrated application that helps users to store and manage data of their business.

One of the most important activities associated with the implementation of an ERP system is the opportunity to streamline and improve the business operations of an organization through business process re-engineering and the by implementing the best practices and standards.

An ERP system is easily scalable so adding new functionality according to the business plan is very easy.

It helps to helps make reporting easier and more customizable.

- **Front End**
  - ✓ HTML, CSS, JavaScript,Bootstrap .
- **Back End**
  - ✓ JSP, Servelt, MySQL, JDBC.

Modules of online voting system

❖ Candidates

- ✓ The system must allow a candidate for login or logout.
- ✓ The system must allow a candidate to add poll.
- ✓ The system must allow a candidate to add their vote.
- ✓ The system must allow a candidate to check final result.

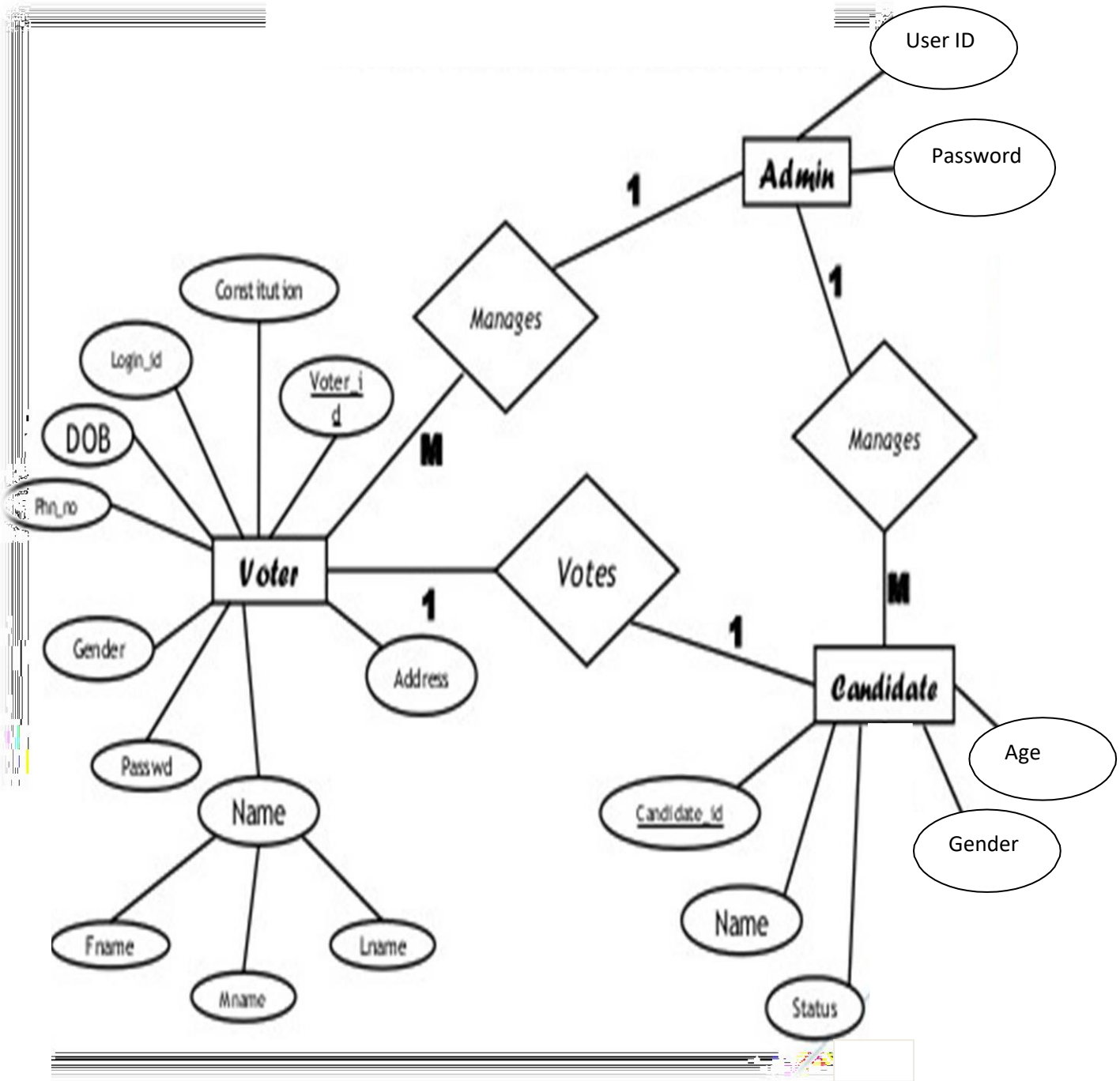
❖ Voter

- ✓ The system must allow a voter to get a new registration.
- ✓ The system must allow a voter for login or logout.
- ✓ The system must allow a voter to release their vote.
- ✓ The system must allow a voter to check final result.

❖ Admin

- ✓ The system must allow an admin for login or logout.
- ✓ The system must allow an admin to add new candidates.
- ✓ The system must allow an admin to view the details of candidates.
- ✓ The system must allow an admin to view the details of voter.
- ✓ The system must allow an admin to check the duplicate redundancy about the polls.
- ✓ The system must allow an admin to declare final result.
- ✓ The system must allow an admin to generate the report.

E.R. Diagram


User ID
Admin
Password
1
1
Manages
Manages
Constitution
Login_id
Voter_id
DOB
Phn_no
M
Voter
Votes
1
1
M
Gender
Address
Candidate
Passwd
Name
Age
Candidate_id
Gender
Name
Fname
Lname
Mname
Status

Schema Table

Admin Table:-

Field Name	Data Type	Description
Username	Varchar	Login id for Admin.(Primary key)
Password	Varchar	Password for Login

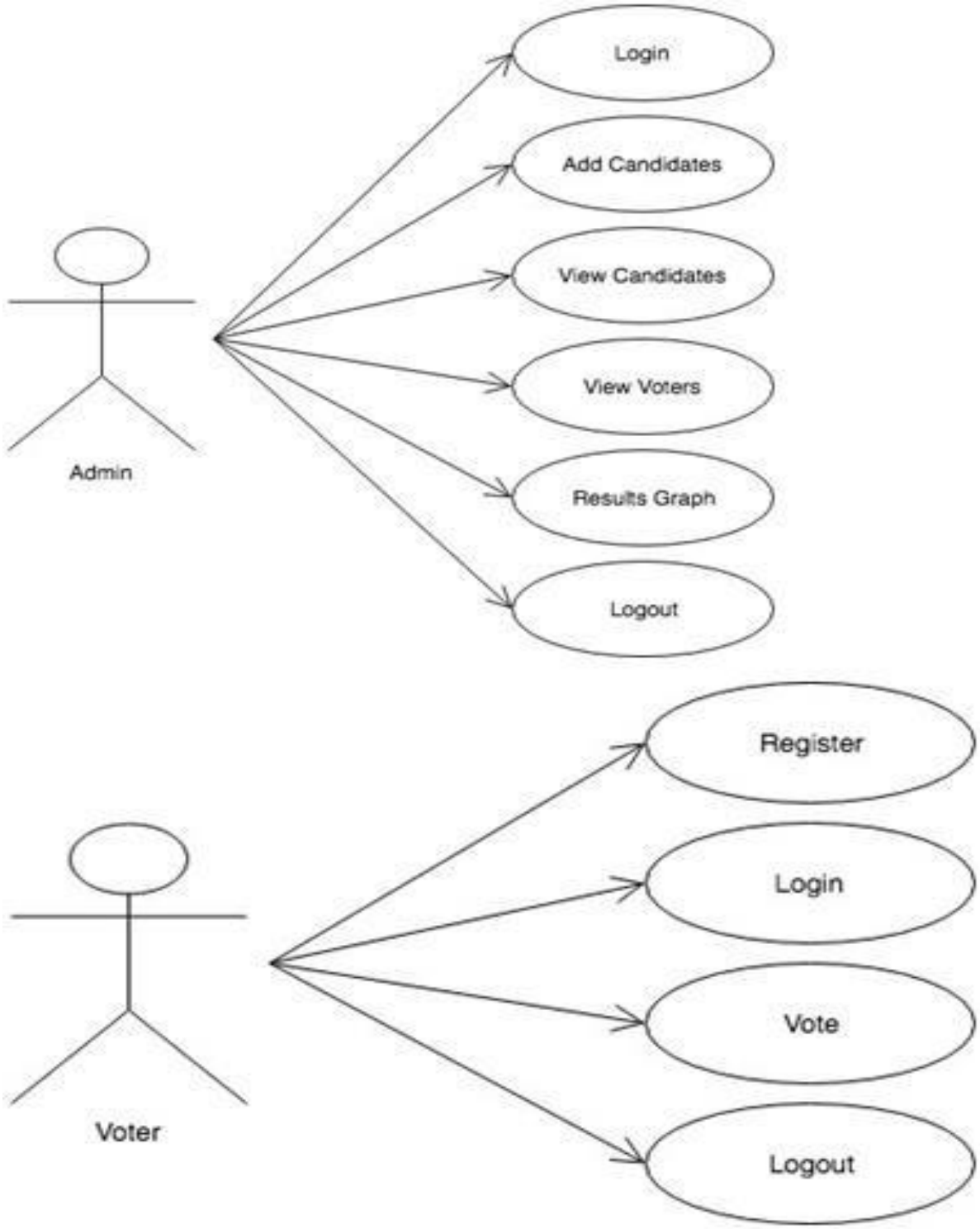
Voter Table:-

Field Name	Data Type	Description
VoterId	Integer	Login id for Voter(Primary key)
Name	Varchar	Name of the voter
Sex	Varchar	Sex of voter
Age	Integer	Age of voter
City	Varchar	City of voter
Security	Varchar	Security Question
Status	Boolean	Status of voter(he/she can vote or not)

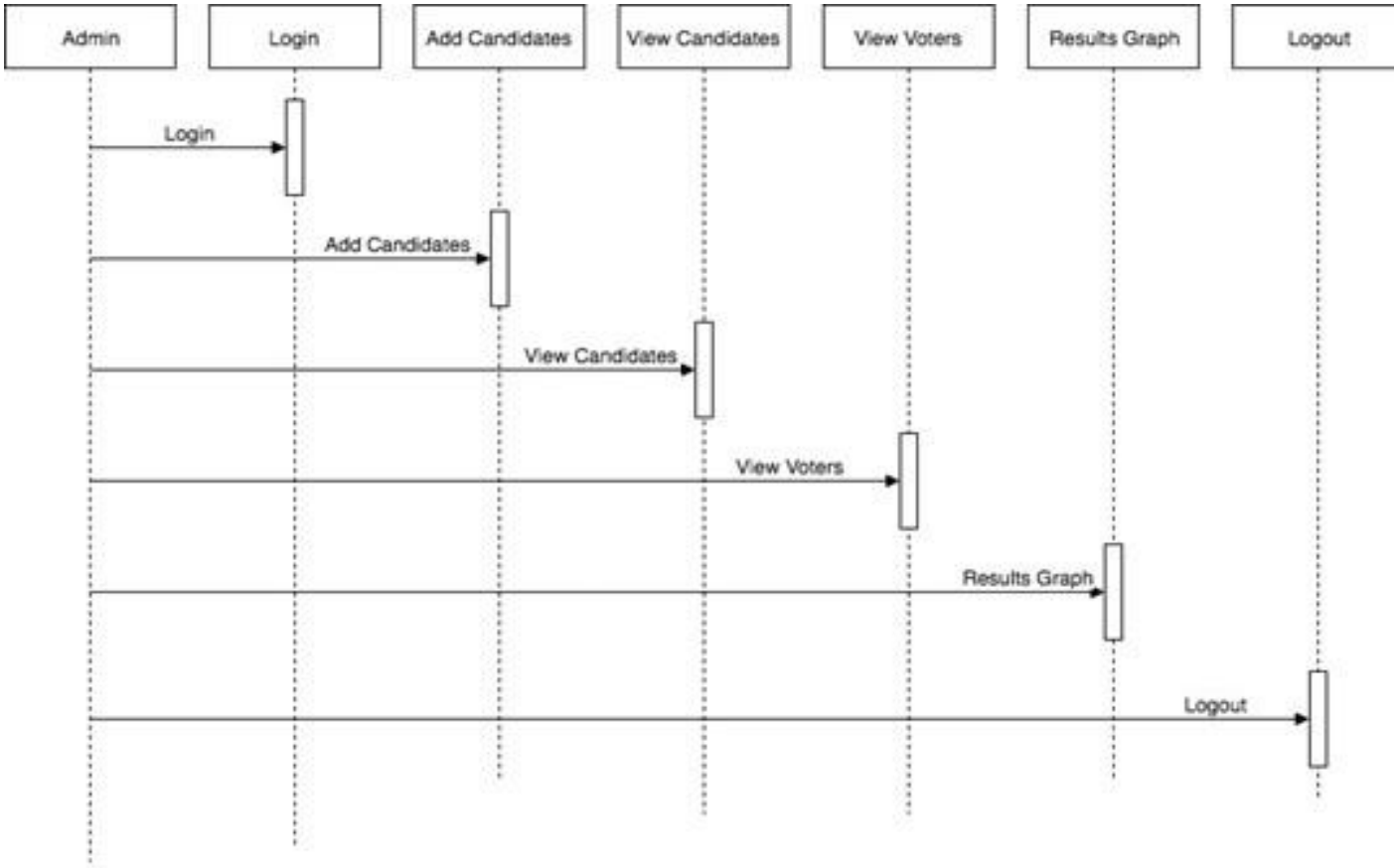
Candidate Table:-

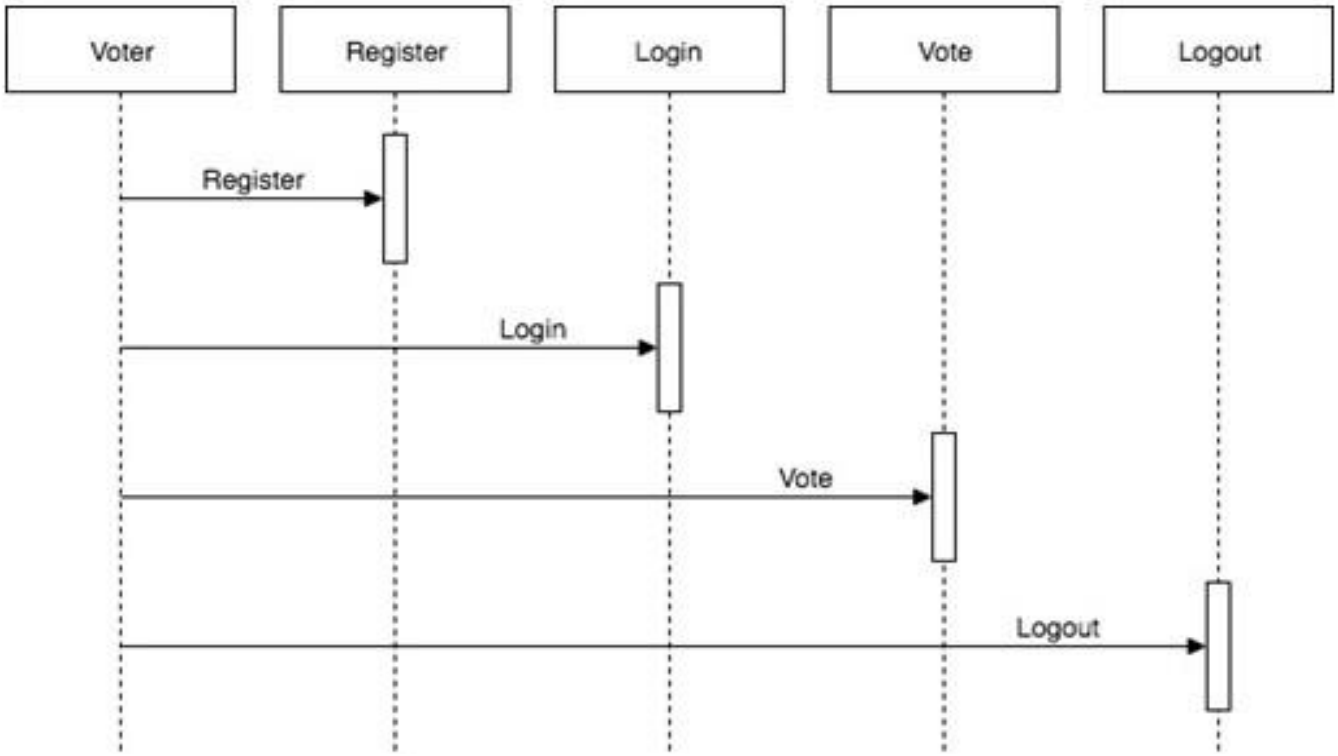
Field Name	Data Type	Description
Symbol	Varchar	Party Symbol (Primary key)
Name	Varchar	Name of the voter
Sex	Varchar	Sex of voter

Case Tool Diagram

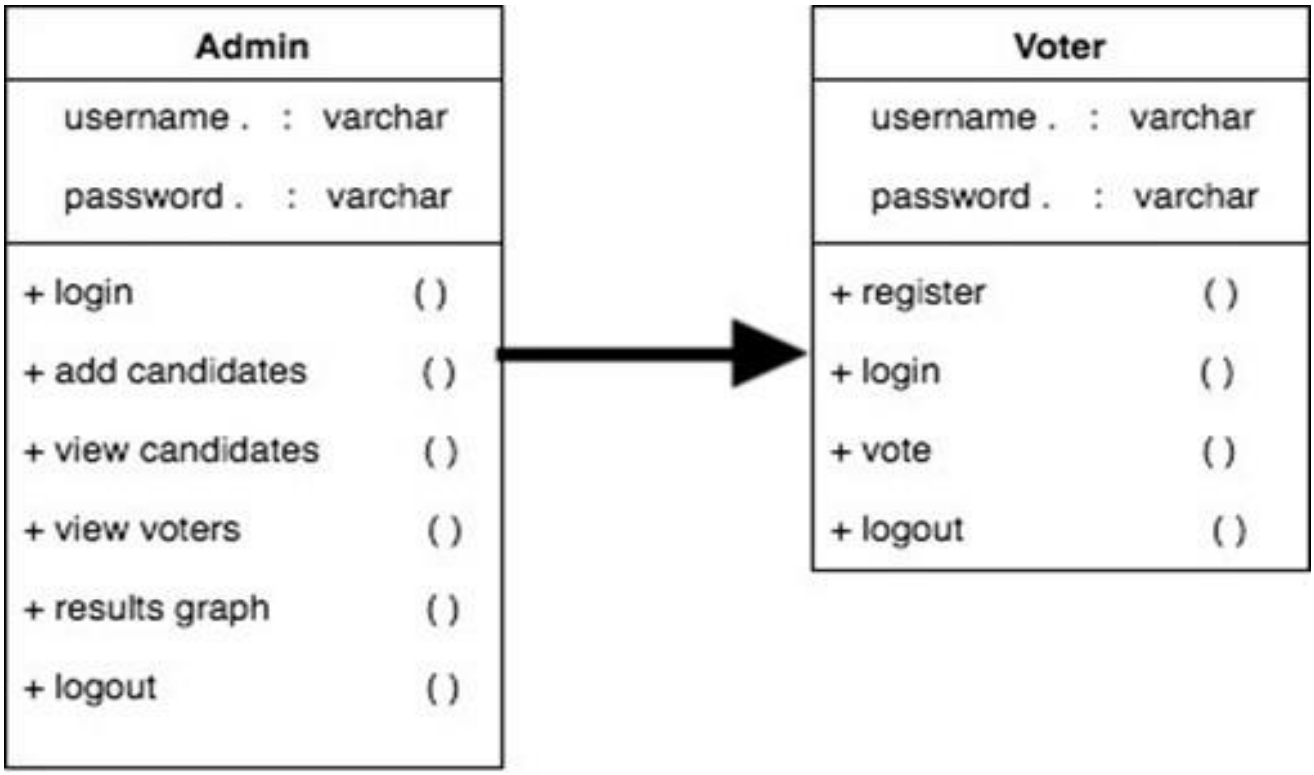


Sequence Diagram

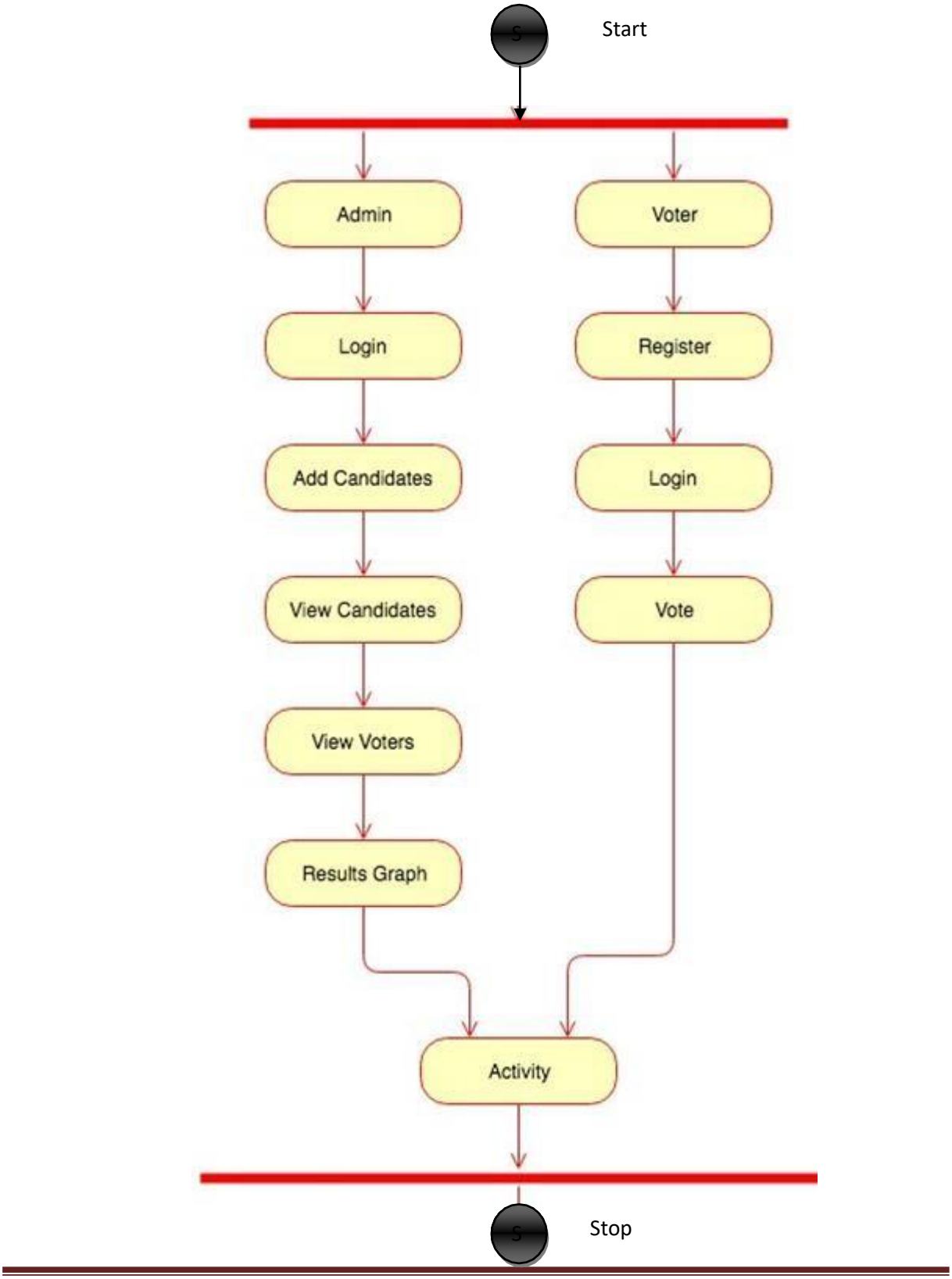




Class Diagram

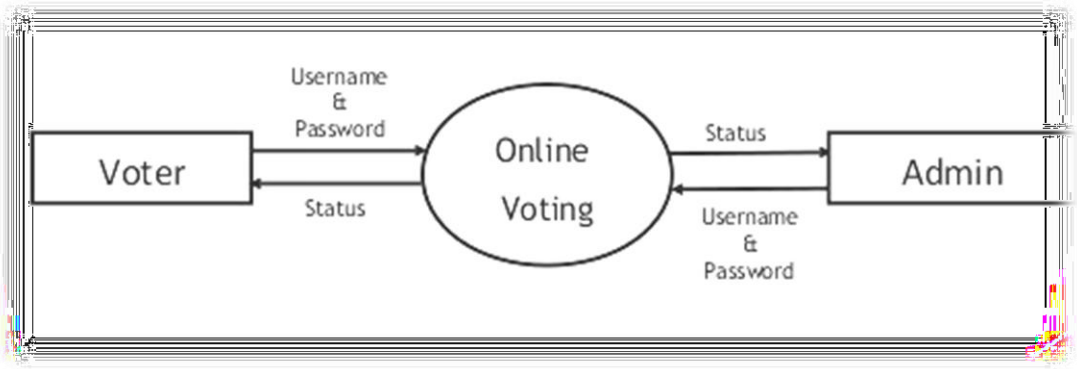


Activity Flow Diagram

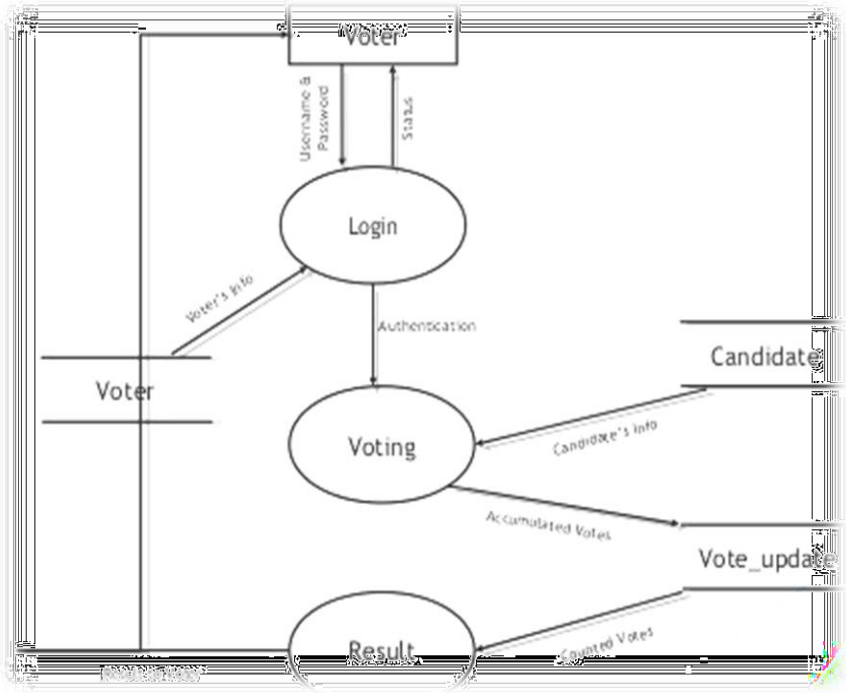


Data flow diagram

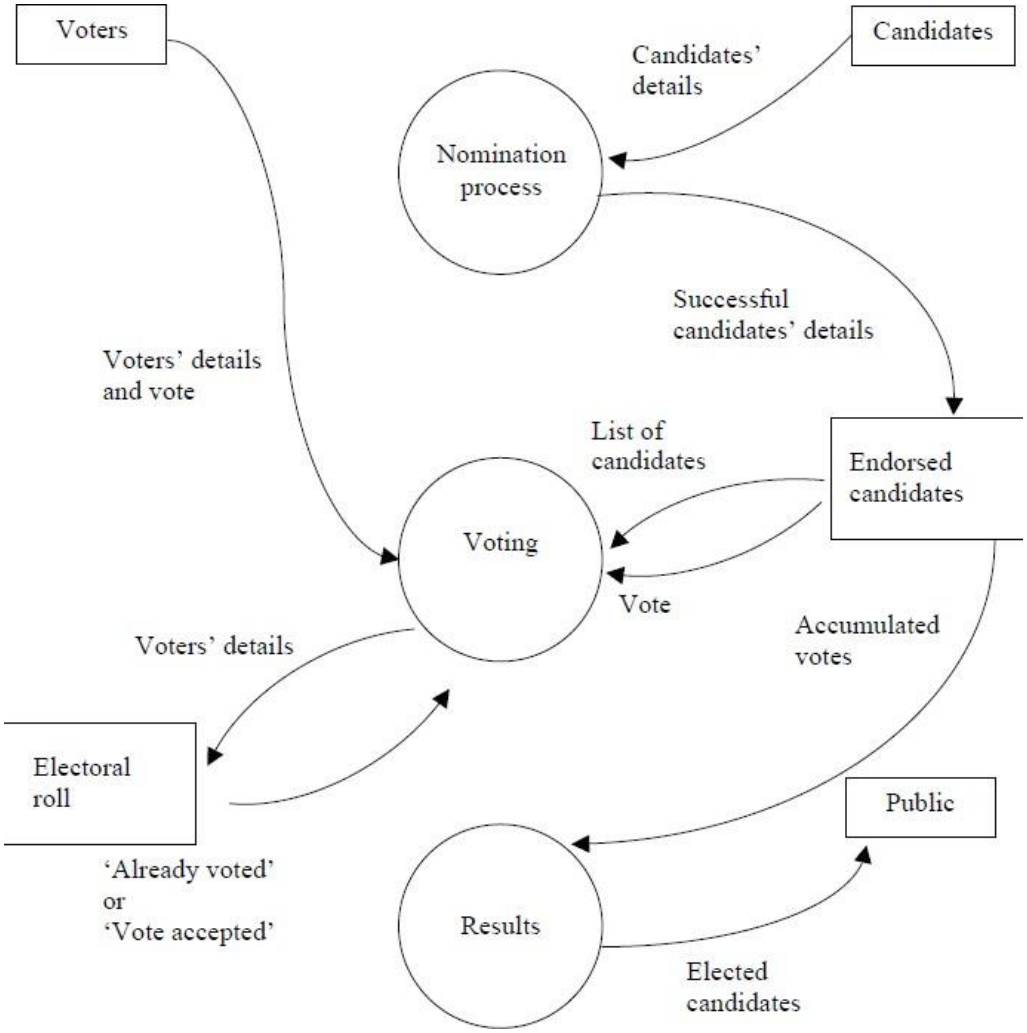
Zero Level DFD



First Level DFD



Second Level DFD



Requirements

❖ Hardware Requirements Specification

- ✓ **Processor** : Intel Pentium processor 500 MHz or faster.
- ✓ **Speed** : 2.4GHz
- ✓ **Ram** : Minimum 2 GB.
- ✓ **H.D.D** : Minimum 40GB or above.

❖ Software Requirements Specification

- ✓ **Operating System** : Window 10
- ✓ **IDE** : Net beans.
- ✓ **Web Browser's** : Google chrome.
- ✓ **Server** : Apache Tomcat,Glassfish

Tools And Platform Used

- **Front End**
  - ✓ HTML, CSS, JavaScript, Bootstrap.
- **Back End**
  - ✓ JSP, Servelt, MySQL, JDBC .

Source Code

Web.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app version="3.1" xmlns="http://xmlns.jcp.org/xml/ns/javaee"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee http://xmlns.jcp.org/xml/ns/javaee/web-app_3_1.xsd">
    <welcome-file-list>
        <welcome-file>Index.jsp</welcome-file>
    </welcome-file-list>
    <servlet>
        <servlet-name>Admin Login</servlet-name>
        <servlet-class>com.login.AdminLogin</servlet-class>
    </servlet>
    <servlet>
        <servlet-name>Admin Logout</servlet-name>
        <servlet-class>com.login.AdminLogout</servlet-class>
    </servlet>
    <servlet>
        <servlet-name>Voter Login</servlet-name>
        <servlet-class>com.login.VoterLogin</servlet-class>
    </servlet>
    <servlet>
        <servlet-name>Voter Logout</servlet-name>
        <servlet-class>com.login.VoterLogout</servlet-class>
    </servlet>
    <servlet>
        <servlet-name>Contact Us</servlet-name>
        <servlet-class>com.register.AddContactPerson</servlet-class>
    </servlet>
    <servlet>
        <servlet-name>Exit ContactPerson</servlet-name>
```

```
    <servlet-class>com.register.ExitContactPerson</servlet-class>
  </servlet>
  <servlet>
    <servlet-name>Register Voter</servlet-name>
    <servlet-class>com.register.RegisterVoter</servlet-class>
  </servlet>
  <servlet>
    <servlet-name>Register Candidate</servlet-name>
    <servlet-class>com.register.RegisterCandidate</servlet-class>
  </servlet>
  <servlet>
    <servlet-name>Candidate Login</servlet-name>
    <servlet-class>com.login.CandidateLogin</servlet-class>
  </servlet>
  <servlet>
    <servlet-name>Candidate Logout</servlet-name>
    <servlet-class>com.login.CandidateLogout</servlet-class>
  </servlet>
  <servlet>
    <servlet-name>Register Party</servlet-name>
    <servlet-class>com.register.RegisterParty</servlet-class>
  </servlet>
  <servlet>
    <servlet-name>View Party</servlet-name>
    <servlet-class>com.view.ViewParty</servlet-class>
  </servlet>
  <servlet>
    <servlet-name>View Voter</servlet-name>
    <servlet-class>com.view.ViewVoter</servlet-class>
  </servlet>
  <servlet>
    <servlet-name>View Candidate</servlet-name>
    <servlet-class>com.view.ViewCandidate</servlet-class>
  </servlet>

  <servlet-mapping>
    <servlet-name>Admin Login</servlet-name>
    <url-pattern>/AdminLogin</url-pattern>
```

```
</servlet-mapping>
<servlet-mapping>
   <servlet-name>Admin Logout</servlet-name>
   <url-pattern>/AdminLogout</url-pattern>
</servlet-mapping>
<servlet-mapping>
   <servlet-name>Voter Login</servlet-name>
   <url-pattern>/VoterLogin</url-pattern>
</servlet-mapping>
<servlet-mapping>
   <servlet-name>Voter Logout</servlet-name>
   <url-pattern>/VoterLogout</url-pattern>
</servlet-mapping>
<servlet-mapping>
   <servlet-name>Contact Us</servlet-name>
   <url-pattern>/Suggestion</url-pattern>
</servlet-mapping>
<servlet-mapping>
   <servlet-name>Exit ContactPerson</servlet-name>
   <url-pattern>/ExitContactPerson</url-pattern>
</servlet-mapping>
<servlet-mapping>
   <servlet-name>Register Voter</servlet-name>
   <url-pattern>/RegisterVoter</url-pattern>
</servlet-mapping>
<servlet-mapping>
   <servlet-name>Register Candidate</servlet-name>
   <url-pattern>/RegisterCandidate</url-pattern>
</servlet-mapping>
<servlet-mapping>
   <servlet-name>Candidate Login</servlet-name>
   <url-pattern>/CandidateLogin</url-pattern>
</servlet-mapping>
<servlet-mapping>
   <servlet-name>Candidate Logout</servlet-name>
   <url-pattern>/CandidateLogout</url-pattern>
</servlet-mapping>
<servlet-mapping>
```

```
        <servlet-name>Register Party</servlet-name>
        <url-pattern>/RegisterParty</url-pattern>
    </servlet-mapping>
    <servlet-mapping>
        <servlet-name>View Party</servlet-name>
        <url-pattern>/ViewParty</url-pattern>
    </servlet-mapping>
    <servlet-mapping>
        <servlet-name>View Voter</servlet-name>
        <url-pattern>/ViewVoter</url-pattern>
    </servlet-mapping>
    <servlet-mapping>
        <servlet-name>View Candidate</servlet-name>
        <url-pattern>/ViewCandidate</url-pattern>
    </servlet-mapping>

    <session-config>
        <session-timeout>
            30
        </session-timeout>
    </session-config>
</web-app>
```

Index.html

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
        <title>JSP Page</title>
        <link rel="stylesheet" href="Stylesheet.css" type="text/css"/>
        <style>
            a{
                text-decoration: none;
                font-size: 40px;
```

```
            font-family: forte;
            margin-right: 10px;
            padding: 12px;
            color: black;
        }
        a:hover{
            background:black;
            font-size: 50px;
            border-radius: 30px;
            color: white;
        }
    </style>
  </head>
  <body>
<%@include file="Font Size.jsp"%>
    <%@include file="Header.jsp"%>
    <div class="Animation">
        <marquee dir="left"><h1>Welcome to an Online Voting
System</h1></marquee>
    </div>
    <div class="Container">
        <div class="Aside_l">
            <br/><br/><a href="Homepage.jsp"> Home </a><br/><br/>
            <img src="Voter.img"/ >
            <a href="Homepagejsp"> Click here </a><br/><br/>
        </div>
</body>
</html>
```

Homepage.jsp

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title>JSP Page</title>
```

```
<link rel="stylesheet" href="Stylesheet.css" type="text/css"/>
<style>
   .Aside_l,.Aside_r{
      background-color: dodgerblue;
      border-radius: 10px;
      margin: 20px;
      width: 22pc;
      text-align: center;
      border: .5px solid  yellow;
      box-shadow: 8px 8px 5px red,-8px -8px 5px black;
   }
   .Aside_l,.Aside_c,.Aside_r{
      display: inline-table;
   }
   .Aside_r{
      float: right;
      height: 13pc;
   }
   a{
      text-decoration: none;
      font-size: 40px;
      font-family: forte;
      margin-right: 10px;
      padding: 12px;
      color: black;
   }
   a:hover{
      background:black;
      font-size: 50px;
      border-radius: 30px;
      color: white;
   }
   .Animation{
      color: red;
   }
   #Asterisk{
      font-size: 35px;
      color: red;
```

```
            text-shadow: 2px 2px 4px red;
        }
        .Aside_c h1{
            text-align: center;
            color: aqua;
            font-family: algerian;
            text-shadow: 3px 4px 5px black,-3px -4px 5px black;
        }
        .Aside_c p{
            font-size: 16px;
            color: navy;
            font-size: 18.1px;
            text-shadow: -1px -1px 6px black;
        }
    </style>
</head>
<body>
    <%@include file="Font Size.jsp"%>
    <%@include file="Header.jsp"%>
    <div class="Animation">
        <marquee dir="left"><h1>Welcome to an Online Voting
System</h1></marquee>
    </div>
    <div class="Container">
        <div class="Aside_l">
            <br/><br/><a href="Homepage.jsp"> Home </a><br/><br/>
            <a href="Voter.jsp"> Voter </a><br/><br/>
            <a href="Candidate Login.jsp"> Candidate </a><br/><br/>
            <a href="Admin Login.jsp"> Administration </a><br/><br/>
        </div>
        <div class="Aside_c">
            <h1>Objectives</h1>
            <p><span id="Asterisk">*</span>  The objective of Online voting
system is to help the organization in <br/>      automating the whole
manual processing of the existing system.</p>
            <p><span id="Asterisk">*</span>  System should support multi-user
environment.</p>
            <p><span id="Asterisk">*</span>  System should be fully
```

```
automated.</p>
            <p><span id="Asterisk">*</span>  System should provide concrete
security features like creating users <br/>      and assigning privileges
to users of the system.</p>
            <p><span id="Asterisk">*</span>  System should be capable to keep
track of all the detailed descriptions <br/>      of the client and the
whole details of services offered by the <br/>      client
organization.</p>
        </div>
        <div class="Aside_r">
            <br/><br/><a href="Contact Us.jsp"> Contact Us </a><br/><br/>
            <a href="About Us.jsp"> About Us </a><br/><br/>
        </div>
        <div class="">

        </div>
    </div>
    <%@include file="Footer.jsp"%>
  </body>
</html>
```

Header.jsp

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title>Header</title>
    <style>
      .Logo{
        border: 1px solid red;
        background-color: midnightblue;
          border-radius: 20px 20px;
      }
      .HeadingHeader{
        background-color: burlywood;
```

```
            margin-left: 50pc;
            margin-right: 1pc;
            border-bottom-left-radius: 200px;
            border-top-right-radius: 200px;
        }
        .HeadingHeader h1{
            color: white;
            text-align: right;
            text-shadow: 5px 7px 4px black,-4px -6px 4px black;
            font-family: magneto;
            font-size: 40px;
            margin-right: 100px;
            padding: 1pc;
        }
    </style>
</head>
<body>

    <div class="Header">
        <div class="Logo">
            <div class="HeadingHeader">
                <h1>Online Voting System</h1>
            </div>
        </div>
    </div>
</body>
</html>
```

Footer.jsp

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
        <title>Footer</title>
        <style>
```

```
        .Footer{
            background-color: salmon;
            border-radius: 10pc;
            font-size: 21px;
            text-align: center;

        }
        #Main1{
            color: white;
            font-family: cooper;
            font-size: 30px;

        }
        #Main1:hover{
            color: darkblue;
        }
        #Main2{
            color: #fff123;
            font-size: 25px;
            font-family: cooper;
            text-shadow : 1px 2px 4px black;
        }
        #Main2:hover{
            font-size: 30px;
            font-family: algerian;
            color: springgreen;
            text-shadow : 1px 2px 4px black;
        }
    </style>
</head>
<body>
    <div class="Footer">
        <p><span id="Main1"><b>&copy</b></span>right. Indira Gandhi National
open University 2020, Design and Develop By <span id="Main2"><b>Rishabh
Kumar</b></span></p>
    </div>
</body>
</html>
```

About Us.jsp

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
        <title>About Us</title>
        <link rel="stylesheet" href="Stylesheet.css" type="text/css" />
        <style>
            h1{
                color: brown;
                font-family: algerian;
                text-align: center;
                font-size: 40px;
            }
            p{
                font-size: 25px;
                margin-left: 15px;
                margin-right: 15px;
            }
        </style>
    </head>
    <body>
        <%@include file="Font Size.jsp"%>
        <%@include file="Header.jsp"%>
        <div class="Container">
            <h1>Introduction</h1>
            <p>“ONLINE VOTING SYSTEM” is an online voting technique. In this system
people who have citizenship of India and whose age is above 18 years of age and any sex
can give his\her vote online without going to any physical polling station.
There is a database which is maintained in which all the names of voters with complete
information is stored. In “ONLINE VOTING SYSTEM” a voter can use his\her voting right
online without any difficulty. He\She has to be registered first for him/her to vote.
The system Administrator registers the voters on a special site of the system visited by
him only by simply filling a registration form to register voter.
```

Citizens seeking registration are expected to contact the system administrator to submit their details. After the validity of them being citizens of India has been confirmed by the system administrator by comparing their details submitted with those in existing databases such as those as the Registrar of Persons, the citizen is then registered as a voter. After registration, the voter is assigned a secret Voter ID with which he/she can use to log into the system and enjoy services provided by the system such as voting. If invalid/wrong details are submitted, then the citizen is not registered to vote.
</p>
```
        </div>
        <%@include file="Footer.jsp"%>
    </body>
</html>
```

Admin Login.jsp

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
        <title>Admin Login</title>
        <link rel="stylesheet" href="Stylesheet.css" type="text/css"/>
        <style>
            input[type=submit]{
                background-color: dodgerblue;
                padding: 10px;
                font-size: 30px;
                font-family: forte;
                color: white;
                text-shadow: 3px 4px 5px black,-3px -4px 5px black;
                border-radius: 30px;
                box-shadow: 4px 5px 6px navy,-4px -5px 6px red;
            }
            input[type=submit]:hover{
                background-color: navy;
                color: white;
                font-family: cooper;
```

```
            padding: 10px;
            box-shadow: 4px 5px 6px orange,-4px -5px 6px yellow;
        }
        .Container{
            margin: 250px;
            background-color: aquamarine;
            border: 1px solid black;
            padding: 40px;
            width: 50pc;
            text-align: center;
            box-shadow: 4px 5px 6px blue,-4px -5px 6px red;
        }
    </style>
</head>
<body>
    <div class="Login">
        <div class="Container">
            <h1>Admin Login</h1>
            <form action="AdminLogin" method="post">
                <label for="adminId">Admin Id : -</label>
                <input type="text" name="adminuser" size="60" placeholder="Username or
E-mail"/><br/><br/>
                <label for="pass">Password : -</label>
                <input type="password" name="adminpass" size="60"
placeholder="Password"/><br/><br/>
                <input type="submit" value="Login">
            </form>
        </div>
    </div>
</body>
</html>
```

Welcome Admin.jsp

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
```

```
<head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title>welcome Admin</title>
    <link rel="stylesheet" href="Stylesheet.css" type="text/css"/>
    <style>
        .Aside_l{
            margin-left: 15pc;
            background-color: #Bc5d2D;
            border: 1px solid black;
            padding: 40px;
            width: 50pc;
            text-align: center;
            box-shadow: 4px 5px 6px blue,-4px -5px 6px yellow;
        }
        .Aside_l a{
            text-decoration: none;
            font-size: 40px;
            font-family: forte;
            color: dodgerblue;
            background-color: aquamarine;
            padding: 18px;
            border-radius: 30px;
            text-shadow: 3px 4px 5px black,-3px -4px 5px black;
            border: 1px solid black;
        }
        .Aside_l a:hover{
            background-color: dodgerblue;
            color: white;
        }
        h1{
            text-align: center;
            font-size: 50px;
            font-family: algerian;
            color: yellow;
            text-shadow: 3px 4px 1px black,-3px -4px 1px black;
        }
        input[type=submit]{
            text-decoration: none;
```

```
            font-size: 40px;
            font-family: forte;
            color: dodgerblue;
            background-color: aquamarine;
            padding: 18px;
            border-radius: 30px;
            text-shadow: 3px 4px 5px black,-3px -4px 5px black;
            border: 1px solid black;
        }
        input[type=submit]:hover{
            background-color: dodgerblue;
            color: white;
        }
    </style>
</head>
<body>

    <%
        response.setHeader("Cache-Control","no-cache, no-store, must-revalidate");
        if(session.getAttribute("adminuserpass")==null){
            session.getAttribute("adminuserpass");
            response.sendRedirect("Homepage.jsp");
        }
    %>

    <%@include file="Font Size.jsp"%>
    <%@include file="Header.jsp"%>

    <h1> Welcome   <%=session.getAttribute("adminuserpass")%></h1>
    <div class="Aside_l">
        <div class="Left">
            <h1>Candidate Section</h1>
            <br/><a href="Register Candidate.jsp">Add
Candidate</a><br/><br/><br/><br/>
            <a href="ViewCandidate">View Candidates</a><br/><br/><br/><br/>
        </div>
        <div class="Right">
            <h1>Voter Section</h1>
```

```
            <br/><a href="Register Voter.jsp">Add Voter</a><br/><br/><br/><br/>
            <a href="ViewVoter">View Voters</a><br/><br/><br/><br/>
            <a href="Party Master.jsp">Add Party</a><br/><br/><br/><br/>
            <a href="ViewParty">View Parties</a><br/><br/><br/><br/>
         </div>
         <div class="Bottom">
            <h1>Declaration Section</h1>
            <br/><a href="Result.jsp">Declare Result</a><br/><br/><br/><br/>
            <a href="Report.jsp">Report Generation</a><br/><br/><br/><br/>
            <form action="AdminLogout" method="post">
               <input type="submit" value="Logout">
            </form>
         </div>
      </div>
      <%@include file="Footer.jsp"%>
   </body>
</html>
```

Candidate Login.jsp

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
   <head>
      <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
      <title>Candidate Login</title>
      <link rel="stylesheet" href="Stylesheet.css" type="text/css"/>
      <style>
         input[type=submit]{
            background-color: dodgerblue;
            padding: 10px;
            font-size: 30px;
            font-family: forte;
            color: white;
            text-shadow: 3px 4px 5px black,-3px -4px 5px black;
            border-radius: 30px;
            box-shadow: 4px 5px 6px navy,-4px -5px 6px red;
         }
```

```
        input[type=submit]:hover{
            background-color: navy;
            color: white;
            font-family: cooper;
            padding: 10px;
            box-shadow: 4px 5px 6px orange,-4px -5px 6px yellow;
        }
        .Container{
            margin: 250px;
            background-color: aquamarine;
            border: 1px solid black;
            padding: 40px;
            width: 50pc;
            text-align: center;
            box-shadow: 4px 5px 6px blue,-4px -5px 6px red;
        }
    </style>
</head>
<body>
    <div class="Login">
        <div class="Container">
            <h1>Candidate Login</h1>
            <form action="CandidateLogin" method="post">
                <label for="candId">Candidate Id : -</label>
                <input type="text" name="candid" size="60" placeholder="Enter  e-mail Id"
><br/><br/>
                <label for="pass">Password : -</label>
                <input type="password" name="pass" size="60" placeholder="Password"
><br/><br/>
                <input type="submit" value="Login">
            </form>
        </div>
    </div>
</body>
</html>
```

Welcome Candidate.jsp

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
        <title>welcome Candidate</title>
```

```
<link rel="stylesheet" href="Stylesheet.css" type="text/css"/>
<style>
   .Aside_l{
      margin-left: 15pc;
      background-color: #ff253D;
      border: 1px solid black;
      padding: 40px;
      width: 50pc;
      text-align: center;
      box-shadow: 4px 5px 6px blue,-4px -5px 6px yellow;
   }
   .Aside_l a{
      text-decoration: none;
      font-size: 40px;
      font-family: forte;
      color: dodgerblue;
      background-color: aquamarine;
      padding: 18px;
      border-radius: 30px;
      text-shadow: 3px 4px 5px black,-3px -4px 5px black;
      border: 1px solid black;
   }
   .Aside_l input[type=submit]{
      text-decoration: none;
      font-size: 40px;
      font-family: forte;
      color: dodgerblue;
      background-color: aquamarine;
      padding: 18px;
      border-radius: 30px;
      text-shadow: 3px 4px 5px black,-3px -4px 5px black;
      border: 1px solid black;
   }
   .Aside_l a:hover{
      background-color: dodgerblue;
      color: white;
   }
   .Aside_l input[type=submit]:hover{
      background-color: dodgerblue;
      color: white;
   }
   h1{
      text-align: center;
      font-size: 50px;
      font-family: algerian;
```

```
            color: yellow;
            text-shadow: 3px 4px 1px black,-3px -4px 1px black;
        }
    </style>
</head>
<body>
    <%
        response.setHeader("Cache-Control","no-cache, no-store, must-revalidate");
            if(session.getAttribute("Candemailpass")==null){
                session.getAttribute("Candemailpass");
                response.sendRedirect("Homepage.jsp");
            }
    %>
    <%@include file="Font Size.jsp"%>
    <%@include file="Header.jsp"%>

    <h1> Welcome </h1>
    <div class="Aside_l">
        <br/><a href="Voting Poll.jsp">Add Vote</a><br/><br/><br/><br/>
        <a href=" ">Add Poll</a><br/><br/><br/><br/>
        <a href="Result.jsp">Check Result</a><br/><br/><br/><br/>
        <form action="CandidateLogout" method="post">
            <input type="submit" value="Logout"/>
        </form>
    </div>
    <%@include file="Footer.jsp"%>
</body>
</html>
```

Voter Login.jsp

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
        <title>Voter Login</title>
        <link rel="stylesheet" href="Stylesheet.css" type="text/css"/>
        <style>
            input[type=submit]{
                background-color: dodgerblue;
```

```
            padding: 10px;
            font-size: 30px;
            font-family: forte;
            color: white;
            text-shadow: 3px 4px 5px black,-3px -4px 5px black;
            border-radius: 30px;
            box-shadow: 4px 5px 6px navy,-4px -5px 6px red;
        }
        input[type=submit]:hover{
            background-color: navy;
            color: white;
            font-family: cooper;
            padding: 10px;
            box-shadow: 4px 5px 6px orange,-4px -5px 6px yellow;
        }
        .Container{
            margin: 250px;
            background-color: aquamarine;
            border: 1px solid black;
            padding: 40px;
            width: 50pc;
            text-align: center;
            box-shadow: 4px 5px 6px blue,-4px -5px 6px red;
        }
    </style>
</head>
<body>
    <div class="Login">
        <div class="Container">
            <h1>Voter Login</h1>
            <form action="VoterLogin" method="post">
                <label for="voterId">Voter Id : -</label>
                <input type="text" name="voteruser" size="60" placeholder="Username or
e-mail Id"><br/><br/>
                <label for="pass">Password : -</label>
                <input type="password" name="voterpass" size="60"
placeholder="Password"><br/><br/>
                <input type="submit" value="Login">
```

```
            </form>
          </div>
        </div>
    </body>
</html>
```

Welcome Voter.jsp

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
        <title>welcome</title>
        <link rel="stylesheet" href="Stylesheet.css" type="text/css"/>
        <style>
            .Aside_l{
                margin-left: 15pc;
                background-color: #fff123;
                border: 1px solid black;
                padding: 40px;
                width: 50pc;
                text-align: center;
                box-shadow: 4px 5px 6px blue,-4px -5px 6px red;
            }
            .Aside_l a{
                text-decoration: none;
                font-size: 40px;
                font-family: forte;
                color: dodgerblue;
                background-color: aquamarine;
                padding: 18px;
                border-radius: 30px;
                text-shadow: 3px 4px 5px black,-3px -4px 5px black;
                border: 1px solid black;
            }
            .Aside_l a:hover{
                background-color: dodgerblue;
```

```
            color: white;
        }
        input[type=submit]{
            text-decoration: none;
            font-size: 40px;
            font-family: forte;
            color: dodgerblue;
            background-color: aquamarine;
            padding: 18px;
            border-radius: 30px;
            text-shadow: 3px 4px 5px black,-3px -4px 5px black;
            border: 1px solid black;
        }
        input[type=submit]:hover{
            background-color: dodgerblue;
            color: white;
        }
        h1{
            text-align: center;
            font-size: 50px;
            font-family: algerian;
            color: yellow;
            text-shadow: 3px 4px 1px black,-3px -4px 1px black;
        }
    </style>
</head>
<body>
    <%
        response.setHeader("Cache-Control","no-cache, no-store, must-revalidate");
            if(session.getAttribute("voteruserpass")==null){
                session.getAttribute("voteruserpass");
                response.sendRedirect("Homepage.jsp");
            }

    %>
    <%@include file="Font Size.jsp"%>
    <%@include file="Header.jsp"%>
```

```
        <h1> Welcome    <%=session.getAttribute("voteruserpass")%></h1>
        <div class="Aside_l">
            <br/><a href="Voting Poll.jsp">Add Vote</a><br/><br/><br/><br/>
           <a href="Result.jsp">Check Result</a><br/><br/><br/><br/>
           <form action="VoterLogout" method="post">
              <input type="submit" value="Logout">
           </form>
        </div>
        <%@include file="Footer.jsp"%>
    </body>
</html>
```

View voter.jsp

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
        <title>Voter List</title>
    </head>
    <body>
        <%@include file="Font Size.jsp"%>
        <%@include file="Header.jsp" %>
        <div class="Container">

        </div>
        <%@include file="Footer.jsp" %>
    </body>
</html>
```

Voter.jsp

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
        <title>Voter Details</title>
```

```
        <link rel="stylesheet" href="Stylesheet.css" type="text/css"/>
        <style>
            .Container{
                margin-left: 15pc;
                background-color: #fff123;
                border: 1px solid black;
                padding: 40px;
                width: 50pc;
                text-align: center;
                box-shadow: 4px 5px 6px blue,-4px -5px 6px red;
            }
            .Container a{
                text-decoration: none;
                font-size: 40px;
                font-family: forte;
                color: dodgerblue;
                background-color: aquamarine;
                padding: 18px;
                border-radius: 30px;
                text-shadow: 3px 4px 5px black,-3px -4px 5px black;
                border: 1px solid black;
            }
            .Container a:hover{
                background-color: dodgerblue;
                color: white;
            }
            h1{
                text-align: center;
                font-size: 40px;
                font-family: algerian;
                color: aqua;
                text-shadow: 3px 4px 5px black,-3px -4px 5px black;
            }
        </style>
    </head>
    <body>
        <%@include file="Font Size.jsp"%>
        <%@include file="Header.jsp"%>
```

```
        <h1> Voter's</h1>
        <div class="Container">
            <br/><a href="Register Voter.jsp">Register as a new
Voter</a><br/><br/><br/><br/>
            <a href="Voter Login.jsp">Voter Login</a><br/><br/><br/>
        </div>
        <%@include file="Footer.jsp"%>
    </body>
</html>
```

Voting Pole.jsp

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
        <title>Add Vote</title>
    </head>
    <body>
        <%@include file="Font Size.jsp" %>
        <%@include file="Header.jsp" %>

        <%@include file="Footer.jsp"%>
    </body>
</html>
```

Contact Us.jsp

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
        <title>Contact Us</title>
        <link rel="stylesheet" href="Stylesheet.css" type="text/css"/>
        <style>
            .Container{
```

```
        background-color: #000;
        background-image: url('vote1.jpeg');
        background-repeat: no-repeat;
        margin: 20px;
        inline-box-align:  last;
        border-radius: 30px;
        background-size: auto;
    }
    legend{
        font-family: forte;
        text-align: center;
        color: navy;
        font-size: 40px;
        text-shadow: 3px 4px 6px red;
        border: 2px solid red;
        background-color: yellow;
    }
    label{
        font-size: 35px;
        font-family: cooper;
        color: red;
        text-shadow: 3px 3px 8px black;
    }
    input[type=email],[type=text]{
        border-radius: 40px;
        height: 20px;
        text-align: center;
        box-shadow: 3px 3px 5px grey;
    }
    input[type=submit]{
        background-color: dodgerblue;
        padding: 10px;
        font-size: 30px;
        font-family: forte;
        color: white;
        text-shadow: 3px 4px 5px black,-3px -4px 5px black;
        border-radius: 30px;
        box-shadow: 4px 5px 6px navy,-4px -5px 6px red;
```

```
            margin-left: 38pc;
        }
        input[type=submit]:hover{
            background-color: navy;
            color: white;
            font-family: cooper;
            padding: 10px;
            box-shadow: 4px 5px 6px orange,-4px -5px 6px yellow;
        }
    </style>
</head>
<body>
    <%@include file="Font Size.jsp"%>
    <%@include file="Header.jsp"%>
    <div class="Container">
        <fieldset>
            <legend>Contact Us</legend>
            <form action="Suggestion" method="post">
                <label for="name">Name : - </label><input type="text" name="C_name"
placeholder="Enter Your Name..." size="70" required><br/><br/>
                <label for="E-mail">E-mail : - </label><input type="email" name="C_email"
placeholder="Enter Your e-mail..." size="70" required><br/><br/>
                <label for="contactno">Contact No. :-</label><input type="text"
name="C_contact" placeholder="Enter Your Contact No." size="70" required><br/><br/>
                <label for="address">Address     :-</label><input type="text"
name="C_add" placeholder="Enter Your Address..." size="70" required><br/><br/>
                <label for="message">Message :-</label><input type="text"
name="C_mess" placeholder="Suggestion" size="70" required><br/><br/>
                <input type="submit" value=" Submit ">
            </form>
        </fieldset>
    </div>
    <%@include file="Footer.jsp"%>
</body>
</html>
```

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Testing

A unit test is a way of testing a unit - the smallest piece of code that can be logically isolated in a system. In most programming languages, that is a function, a subroutine, a method or property. The isolated part of the definition is important. In his book "Working Effectively with Legacy Code", author Michael Feathers states that such tests are not unit tests when they rely on external systems: “If it talks to the database, it talks across the network, it touches the file system, it requires system configuration, or it can't be run at the same time as any other test."

Modern versions of unit testing can be found in frameworks like JUnit, or testing tools like TestComplete. Look a little further and you will find SUnit, the mother of all unit testing frameworks created by Kent Beck, and a reference in chapter 5 of The Art of Software Testing . Before that, it's mostly a mystery. I asked Jerry Weinberg about his experiences with unit testing -- "We did unit testing in 1956. As far as I knew, it was always done, as long as there were computers".

Regardless of when and where unit testing began, one thing is for sure. Unit testing is here to stay. Let's look at some more practical aspects of unit testing.

Tools And Platform Used

- **Front End**
  - ✓ HTML, CSS, JavaScript, Bootstrap.
- **Back End**
  - ✓ JSP, Servelt, MySQL, JDBC .

Future Scope Of Online Voting System

Everything requires modification and new implementation according to need or due to other reason. In the following proposed project following areas can be implemented in future.

• It is connected with the network for easily retrieved data and many location or many districts or cities in different states.

• All the information can be easily accessed the Voter like their details, voting status, poll result.

• Report on the different basis will be easy created on the demand.

• It can be modify and the others details can be easily provided to administrator.

• Option for customizing environment.

• New security features. With its emphasis on a more strategic decision making process is fast gaining ground as a popular outsourced function.