# CHAPTER 1

# INTRODUCTION

The Event Voting System is an Android application designed for college students to participate in voting events. The app provides an efficient and convenient way for students to participate in elections and other voting events within their college community. The main aim of the app is to encourage student engagement and participation in college activities by making the voting process more accessible and streamlined. The app is easy to use and provides a user-friendly interface that allows students to cast their votes quickly and securely. Students can log in using their college email address and create a unique password to access the app. They can then view upcoming voting events, view candidate profiles, and cast their votes with just a few clicks. The app also provides real-time updates on the voting process, allowing students to track the progress of the election and view the results as they come in. In addition, the app provides an option for students to submit feedback on the voting process and suggest improvements for future events. Overall, the Event Voting System is an innovative solution to increase student engagement and participation in college activities. With its user-friendly interface and efficient voting process, the app is sure to become an essential tool for college students looking to make their voices heard in their college community

## 1.1 PROJECT DESCRIPTION

The Event Voting System is an Android app designed for college students to participate in voting events. It aims to increase student engagement and participation in college activities by providing a convenient and efficient voting process. The app features a user-friendly interface, secure authentication, and real-time updates on voting progress and results. Students can view upcoming events, candidate profiles, and submit their votes easily. The app also allows students to provide feedback and suggest improvements for future events. Overall, the Event Voting System is an innovative solution to enhance student engagement in college communities.

## 1.2 PROJECT SCOPE

The scope of the Event Voting System project includes:

* Objective: The primary objective of the project is to design and develop an Android application, the Event Voting System, which specifically caters to the needs of college students. The app aims to provide an efficient and convenient way for students to participate in voting events, such as elections, within their college community. By streamlining the voting process and making it more accessible, the app aims to encourage student engagement and active participation in various college activities.
* Features: The Event Voting System app offers a range of features to facilitate student participation. Firstly, it provides a user-friendly interface that allows students to quickly and securely cast their votes. To access the app, students can conveniently log in using their college email address and create a unique password. Once logged in, they gain access to various functionalities. Students can view upcoming voting events, including detailed information and schedules. They can also explore candidate profiles, providing valuable insights into the candidates running for different positions in the college.
* The app provides real-time updates on the voting process, enabling students to track the progress of the election and view the results as they are announced. This feature not only keeps students informed but also fosters transparency and trust in the voting system. Additionally, the app offers a feedback and suggestions mechanism, allowing students to provide their input on the voting process and propose improvements for future events. This helps in continuously enhancing the overall voting experience and ensuring student satisfaction.
* Target audience: The Event Voting System primarily targets college students who are eager to actively participate in voting events within their college community. Recognizing the technological proficiency of this demographic, the app is designed to be user-friendly and intuitive, ensuring a seamless and enjoyable user experience.
* Technological requirements: The development of the Event Voting System involves creating an Android application using either Java or Kotlin programming languages. Integration with a secure and reliable database system is essential to store user information, candidate profiles, and voting results. This ensures the confidentiality and integrity of the data.
* Project constraints: The project operates within certain constraints, including a limited timeframe and available resources for development and implementation. These constraints necessitate careful planning and efficient allocation of resources to ensure the successful completion of the project within the given scope.

In conclusion, the Event Voting System is an innovative Android application designed to increase student engagement and participation in college activities. With its user-friendly interface, efficient voting process, real-time updates, and feedback mechanism, the app is poised to become an indispensable tool for college students seeking to have their voices heard in their college community.

Top of Form

* 1. **HARDWARE / SOFTWARE USED IN PROJECT**

Hardware Requirement

* System: Pentium i5 Processor
* Hard Disk :500 GB minimum
* Monitor: 15’’ LED
* Input Devices: Keyboard, Mouse
* Ram: 2 GB

Software Requirement

* Windows 7/8/10 (32- bit or 64-bit)
* ANDROID STUDIO
* 8GB RAM Minimum Processori3 or i5

Technology Used

* JAVA
* SQLite

# CHAPTER 2

# FEASIBILITY STUDY

# 2.1 TECHNICAL FEASIBILITY

The technical feasibility of the Event Voting System project involves assessing the practicality and viability of implementing the proposed Android application for college students. It focuses on the technical requirements, resources, and infrastructure needed to develop and deploy the system. The following points outline the technical feasibility of the project:

1. Compatibility and Software Requirements:

* Evaluate the compatibility of the chosen technologies and frameworks with the Android platform.
* Assess the availability and suitability of the required software components and development tools.
* Ensure that the app can be developed using the Android programming language and associated development environments.

1. Hardware Infrastructure:

* Determine the hardware resources required to support the Event Voting System, such as servers or cloud infrastructure.
* Assess the availability and scalability of the hardware infrastructure to handle the expected user load and data processing requirements.

1. User Interface and Usability:

* Design a user-friendly and intuitive interface that is suitable for college students, considering their technical expertise and preferences.
* Ensure that the app's features and functionalities are easily accessible and navigable.

1. Data Management:

* Define the data storage requirements for the app, including user profiles, event details, and voting data.
* Choose an appropriate database management system to efficiently store, retrieve, and manage the data.
* Implement data backup and recovery mechanisms to ensure data integrity and availability.

1. Security Measures:

* Implement robust authentication mechanisms to verify user identities and protect against unauthorized access.
* Apply encryption techniques for secure transmission of data between the app and the server.
* Employ security best practices to protect user data and prevent common security threats.

1. Performance and Scalability:

* Evaluate the expected user load and assess the system's performance requirements.
* Conduct performance testing to identify any bottlenecks or performance issues and optimize system performance.
* Consider scalability measures such as load balancing, caching, and server-side optimizations to handle increasing user demand.

1. Integration and Interoperability:

* Assess the need for integrating the Event Voting System with other existing college systems or databases.
* Ensure smooth data exchange and interoperability between the app and external systems, if required.

1. Development Resources:

* Evaluate the availability of skilled developers or development teams with expertise in Android app development.
* Consider any training needs or resource gaps that may impact the project's timeline and successful implementation.

By considering the technical aspects mentioned above, the feasibility of the Event Voting System project can be assessed. It is crucial to ensure that the required software and hardware components are available, the user interface is intuitive, data management and security measures are in place, and the system can handle expected user load and scalability requirements.

**2.2 OPERATIONAL FEASIBILITY**

## The operational feasibility of the Event Voting System project assesses the practicality and effectiveness of implementing the proposed Android application within the college environment. It focuses on the operational aspects of the system and its potential to meet the needs of the college community. The following points highlight the operational feasibility of the project:

## User Adoption:

## Evaluate the willingness of college students to adopt and use the Event Voting System.

## Consider conducting surveys or pilot testing to gauge student interest and acceptance of the app.

## Assess the readiness of the college community to embrace a digital voting solution.

## User Training and Support:

## Determine the training requirements for students to effectively use the app.

## Provide comprehensive documentation and user guides to assist students in navigating the app.

## Establish a support system to address user queries and technical issues promptly.

## Integration with College Processes:

## Assess the compatibility of the Event Voting System with existing college processes and workflows.

## Collaborate with college authorities to ensure seamless integration of the app into the voting procedures.

## Identify any necessary adjustments or modifications to align the system with college requirements.

## Infrastructure and Resources:

## Evaluate the availability of necessary infrastructure and resources to support the app.

## Assess the capacity of college servers or cloud services to handle the app's data processing and storage requirements.

## Ensure reliable internet connectivity for students to access and use the app.

## Security and Privacy:

## Address any concerns related to data security and privacy in the college environment.

## Comply with relevant regulations and policies regarding the storage and handling of student data.

## Implement robust security measures to protect user information and prevent unauthorized access.

## Feedback and Improvement:

## Establish a mechanism to gather feedback from students and college authorities regarding the app's functionality and effectiveness.

## Incorporate feedback to improve the voting process and enhance the user experience.

## Regularly update the app to address any identified issues or implement suggested improvements.

## By considering these operational aspects, the feasibility of implementing the Event Voting System can be assessed. It is essential to ensure user adoption, provide adequate training and support, integrate the app into existing college processes, allocate necessary resources, address security and privacy concerns, and gather feedback for continuous improvement.

## 2.3 BEHAVIOURAL FEASIBILITY

The behavioral feasibility of the Event Voting System project evaluates the potential acceptance and usability of the proposed Android application among college students. It focuses on understanding the behavior and preferences of the target users to ensure that the app meets their needs effectively. The following points outline the behavioral feasibility of the project:

1. User Acceptance:

* Assess the willingness of college students to adopt and embrace a digital voting solution.
* Conduct surveys or interviews to understand their attitudes towards using technology for voting and their perceived benefits of the app.
* Identify any potential barriers or resistance to adopting the Event Voting System.

1. User Experience and Usability:

* Design a user-friendly and intuitive interface that aligns with the preferences and expectations of college students.
* Conduct user testing and gather feedback to ensure the app is easy to navigate and understand.
* Iterate and refine the app based on user feedback to enhance the overall user experience.

1. Student Engagement and Participation:

* Evaluate the potential impact of the Event Voting System on student engagement and participation in college activities.
* Assess if the app encourages students to actively participate in voting events by making the process more accessible and convenient.
* Identify features or incentives that may further motivate student involvement.

1. Student Feedback and Improvement:

* Provide mechanisms within the app for students to submit feedback on the voting process and suggest improvements for future events.
* Actively review and consider the feedback received to enhance the app's functionality and address user concerns.
* Demonstrate responsiveness to student suggestions to foster a sense of ownership and engagement with the app.

1. Communication and Awareness:

* Develop a communication strategy to inform and educate students about the Event Voting System.
* Conduct awareness campaigns and provide clear instructions on how to access and use the app.
* Ensure students understand the benefits and value proposition of using the app for voting events.

By considering these behavioral aspects, the feasibility of implementing the Event Voting System can be assessed. It is important to ensure user acceptance and satisfaction, prioritize a positive user experience, evaluate the impact on student engagement and participation, incorporate student feedback for continuous improvement, and establish effective communication and awareness strategies.

# CHAPTER 3

# DATABASE DESIGN

SQLite Database is an open-source database provided in Android which is used to store data inside the user’s device in the form of a Text file. We can perform so many operations on this data such as adding new data, updating, reading, and deleting this data. SQLite is an offline database that is locally stored in the user’s device, and we do not have to create any connection to connect to this database.

Data is stored in the SQLite database in the form of tables. When we stored this data in our SQLite database it is arranged in the form of tables that are similar to that of an excel sheet. Below is the representation of our SQLite database which we are storing in our SQLite database.

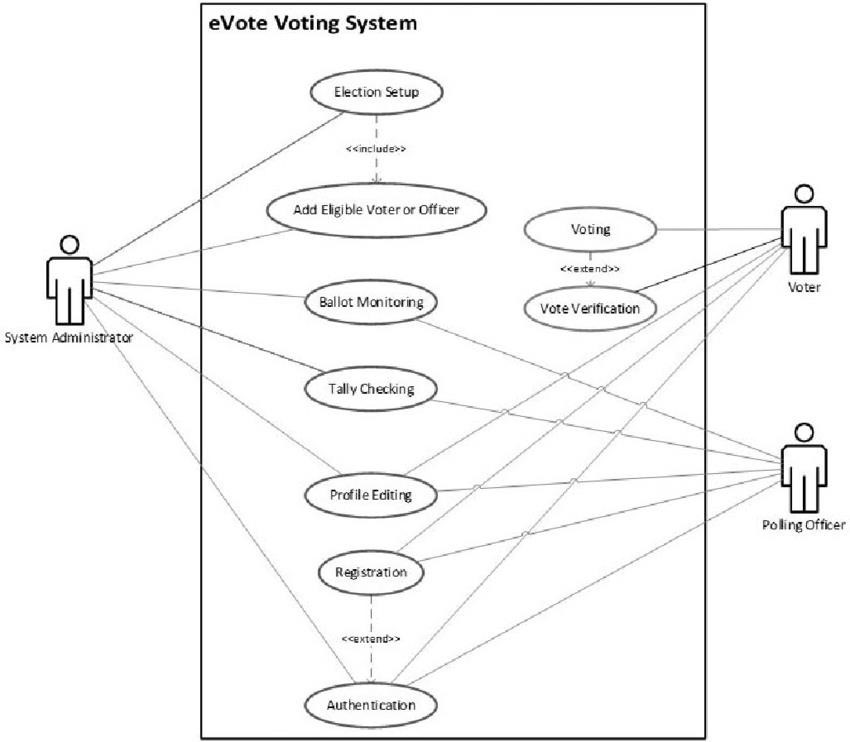
**3.1 FLOW CHART**

Diagram

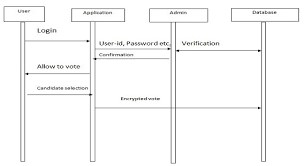
Description automatically generated

**Figure 3.1:** Flow Chart

## 3.2 USE CASE DIAGRAM



**Figure 3.2:** Use Case Diagram

**3.3 SEQUENCE DIAGRAM**

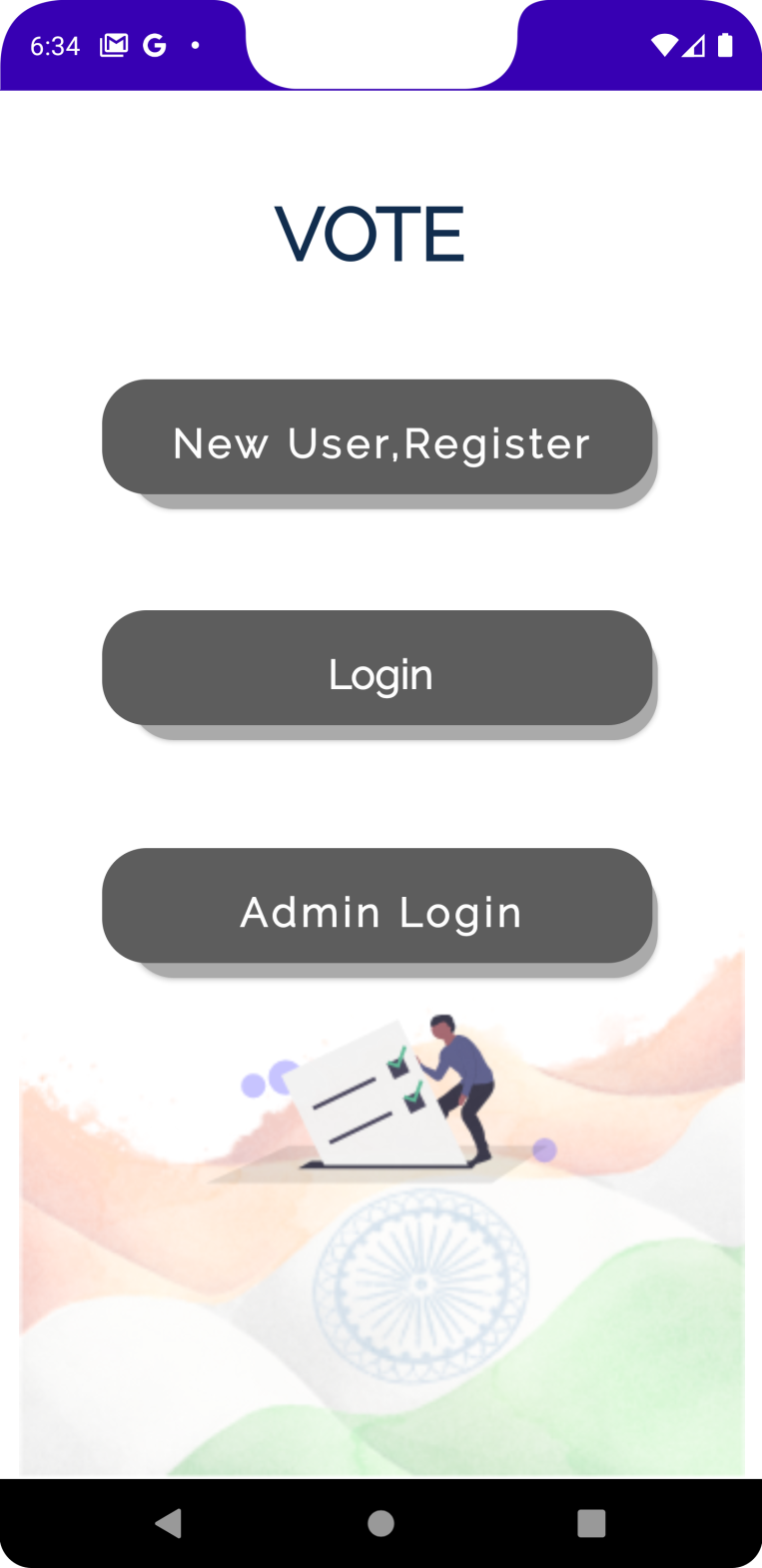
**Figure 3.3:** Sequence Diagram

# CHAPTER 4

# Diagram Description automatically generated FORM DESIGN

**Figure 4.0**: Form Design

**4.1 INPUT / OUTPUT FORM (SCREENSHOT)**



**Figure 4.1** Landing Page

Graphical user interface

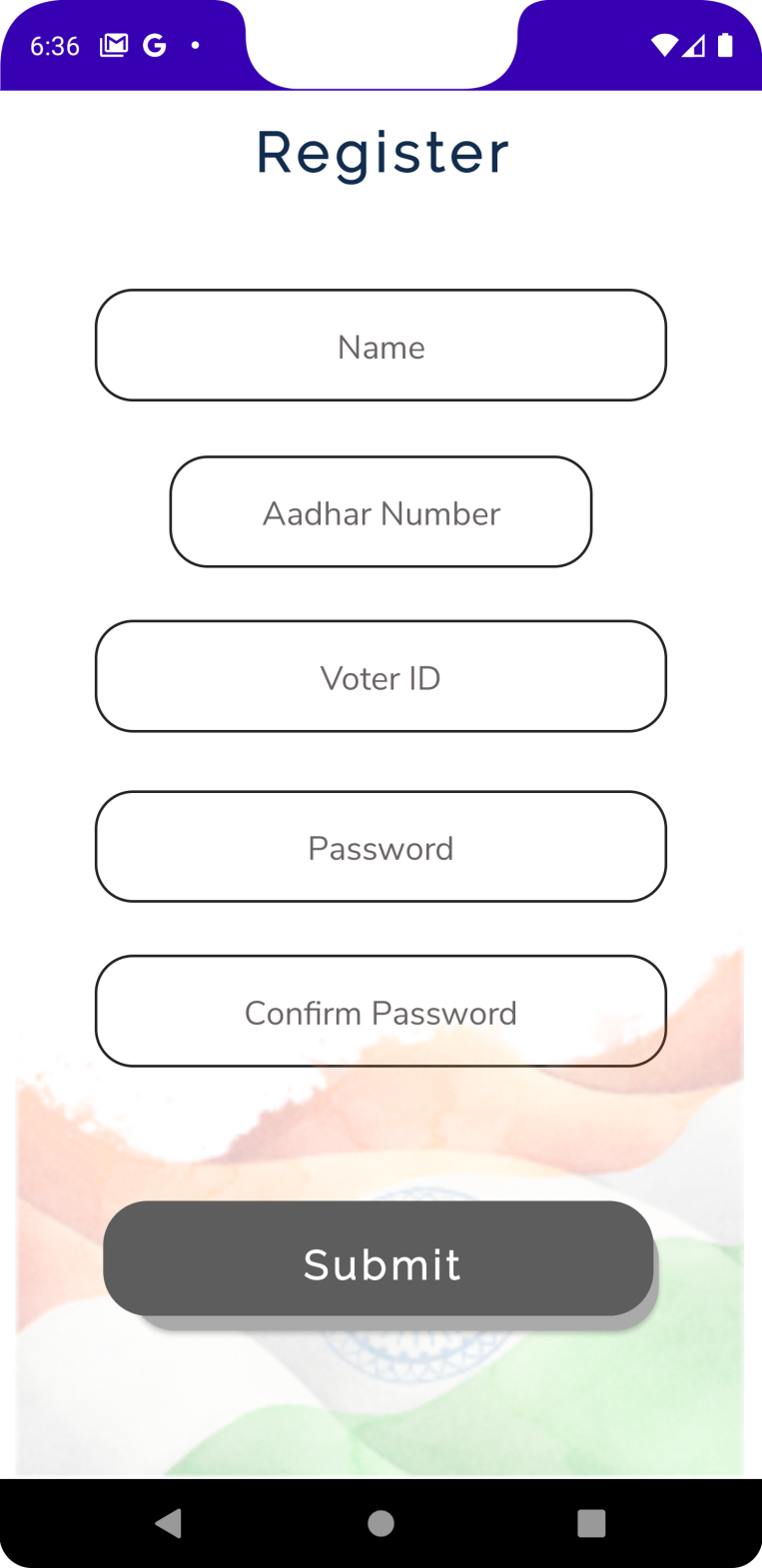
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**Figure 4.2** Admin Login

Graphical user interface

Description automatically generated

**Figure 4.3** Admin Welcome

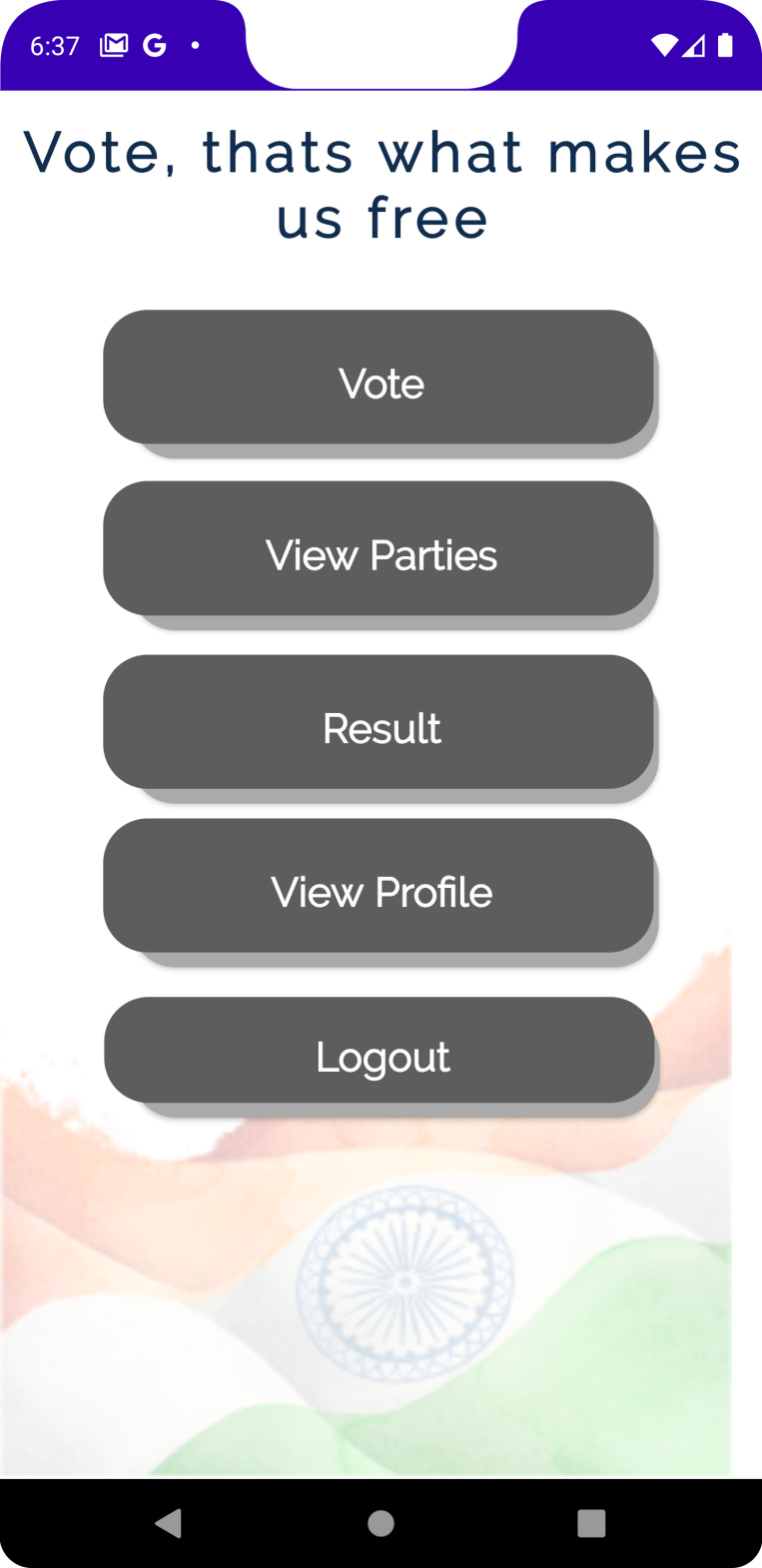


**Figure 4.4** Registration Page

Graphical user interface

Description automatically generated

**Figure 4.5** User Login



**Figure 4.1.6** Voter modules

Text

Description automatically generated

**Figure 4.1.7** Submit Page

**CHAPTER 5**

**CODING**

1.Add Party

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2.Add Voter

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3.Admin Home

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4.Activity Login

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 android:textColorHint="#6A6464"  
 android:textColor="#090909"  
 android:textSize="18sp"  
 android:typeface="sans"  
 app:layout\_constraintBottom\_toTopOf="@+id/apass"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/textView2" />  
  
 <TextView  
 android:id="@+id/textView2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginBottom="43dp"  
 android:layout\_marginTop="54dp"  
 android:fontFamily="@font/raleway"  
 android:letterSpacing="0.1"  
 android:text="Admin Login"  
 android:textAlignment="center"  
 android:textAllCaps="false"  
 android:textAppearance="@style/TextAppearance.AppCompat.Large"  
 android:textColor="#112D4E"  
 android:textSize="30sp"  
 android:textStyle="bold"  
 android:typeface="sans"  
 app:layout\_constraintBottom\_toTopOf="@+id/auser"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

5.Home

<?xml version="1.0" encoding="utf-8"?>  
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:background="@color/white"  
 tools:context=".Home">  
  
 <Button  
 android:id="@+id/button6"  
 android:layout\_width="300dp"  
 android:layout\_height="0dp"  
 android:layout\_marginBottom="12dp"  
 android:background="@drawable/custombutton"  
 android:fontFamily="@font/raleway"  
 android:gravity="center"  
 android:text="Vote"  
 android:textAlignment="center"  
 android:textAllCaps="false"  
 android:textAppearance="@style/TextAppearance.AppCompat.Large"  
 android:textColor="#FDFDFD"  
 android:textSize="22sp"  
 android:textStyle="bold"  
 android:typeface="sans"  
 app:layout\_constraintBottom\_toTopOf="@+id/button7"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/textView" />  
  
 <Button  
 android:id="@+id/button7"  
 android:layout\_width="300dp"  
 android:layout\_height="0dp"  
 android:layout\_marginBottom="13dp"  
 android:background="@drawable/custombutton"  
 android:fontFamily="@font/raleway"  
 android:gravity="center"  
 android:text="View Parties"  
 android:textAlignment="center"  
 android:textAllCaps="false"  
 android:textAppearance="@style/TextAppearance.AppCompat.Large"  
 android:textColor="#FDFDFD"  
 android:textSize="22sp"  
 android:textStyle="bold"  
 android:typeface="sans"  
 app:layout\_constraintBottom\_toTopOf="@+id/button8"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/button6" />  
  
 <Button  
 android:id="@+id/button8"  
 android:layout\_width="300dp"  
 android:layout\_height="0dp"  
 android:layout\_marginBottom="8dp"  
 android:background="@drawable/custombutton"  
 android:fontFamily="@font/raleway"  
 android:gravity="center"  
 android:text="Result"  
 android:textAlignment="center"  
 android:textAllCaps="false"  
 android:textAppearance="@style/TextAppearance.AppCompat.Large"  
 android:textColor="#FDFDFD"  
 android:textSize="22sp"  
 android:textStyle="bold"  
 android:typeface="sans"  
 app:layout\_constraintBottom\_toTopOf="@+id/button9"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/button7" />  
  
 <Button  
 android:id="@+id/button9"  
 android:layout\_width="300dp"  
 android:layout\_height="0dp"  
 android:layout\_marginBottom="276dp"  
 android:background="@drawable/custombutton"  
 android:fontFamily="@font/raleway"  
 android:gravity="center"  
 android:text="View Profile"  
 android:textAlignment="center"  
 android:textAllCaps="false"  
 android:textAppearance="@style/TextAppearance.AppCompat.Large"  
 android:textColor="#FDFDFD"  
 android:textSize="22sp"  
 android:textStyle="bold"  
 android:typeface="sans"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/button8" />  
  
 <ImageView  
 android:id="@+id/imageView3"  
 android:layout\_width="395dp"  
 android:layout\_height="347dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/button9"  
 app:layout\_constraintVertical\_bias="1.0"  
 app:srcCompat="@drawable/flag1" />  
  
 <TextView  
 android:id="@+id/textView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginBottom="32dp"  
 android:layout\_marginTop="16dp"  
 android:fontFamily="@font/raleway"  
 android:letterSpacing="0.1"  
 android:text="Vote, thats what makes us free"  
 android:textAlignment="center"  
 android:textAllCaps="false"  
 android:textAppearance="@style/TextAppearance.AppCompat.Large"  
 android:textColor="#112D4E"  
 android:textSize="30sp"  
 android:textStyle="bold"  
 android:typeface="serif"  
 app:layout\_constraintBottom\_toTopOf="@+id/button6"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <Button  
 android:id="@+id/button14"  
 android:layout\_width="300dp"  
 android:layout\_height="65dp"  
 android:layout\_marginTop="16dp"  
 android:background="@drawable/custombutton"  
 android:fontFamily="@font/raleway"  
 android:gravity="center"  
 android:text="Logout"  
 android:textAlignment="center"  
 android:textAllCaps="false"  
 android:textAppearance="@style/TextAppearance.AppCompat.Large"  
 android:textColor="#FDFDFD"  
 android:textSize="22sp"  
 android:textStyle="bold"  
 android:typeface="sans"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.505"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/button9" />  
  
  
</androidx.constraintlayout.widget.ConstraintLayout>

6.User Login

<?xml version="1.0" encoding="utf-8"?>  
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:background="@color/white"  
 tools:context=".Login">  
  
 <Button  
 android:id="@+id/button2"  
 android:layout\_width="300dp"  
 android:layout\_height="68dp"  
 android:layout\_marginBottom="294dp"  
 android:background="@drawable/custombutton"  
 android:fontFamily="@font/raleway"  
 android:gravity="center"  
 android:text="Login"  
 android:textAlignment="center"  
 android:textAllCaps="false"  
 android:textAppearance="@style/TextAppearance.AppCompat.Large"  
 android:textColor="#FDFDFD"  
 android:textSize="22sp"  
 android:textStyle="bold"  
 android:typeface="sans"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/avoter" />  
  
 <EditText  
 android:id="@+id/avoter"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="51dp"  
 android:layout\_marginBottom="66dp"  
 android:background="@drawable/customet"  
 android:ems="10"  
 android:fontFamily="@font/nunito\_sans"  
 android:hint="Password"  
 android:inputType="textPassword"  
 android:textAlignment="center"  
 android:textColorHint="#6A6464"  
 android:textColor="#090909"  
 android:textSize="18sp"  
 android:typeface="sans"  
 app:layout\_constraintBottom\_toTopOf="@+id/button2"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/aaadhar" />  
  
 <EditText  
 android:id="@+id/aaadhar"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="51dp"  
 android:layout\_marginBottom="36dp"  
 android:background="@drawable/customet"  
 android:ems="10"  
 android:fontFamily="@font/nunito\_sans"  
 android:hint="Voter ID"  
 android:inputType="textPersonName"  
 android:textAlignment="center"  
 android:textColorHint="#6A6464"  
 android:textColor="#090909"  
 android:textSize="18sp"  
 android:typeface="sans"  
 app:layout\_constraintBottom\_toTopOf="@+id/avoter"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/textView2" />  
  
 <ImageView  
 android:id="@+id/imageView4"  
 android:layout\_width="376dp"  
 android:layout\_height="275dp"  
 android:layout\_marginBottom="4dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.47"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:srcCompat="@drawable/vote" />  
  
 <TextView  
 android:id="@+id/textView2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginBottom="43dp"  
 android:layout\_marginTop="54dp"  
 android:fontFamily="@font/raleway"  
 android:letterSpacing="0.1"  
 android:text="Login"  
 android:textAlignment="center"  
 android:textAllCaps="false"  
 android:textAppearance="@style/TextAppearance.AppCompat.Large"  
 android:textColor="#112D4E"  
 android:textSize="30sp"  
 android:textStyle="bold"  
 android:typeface="sans"  
 app:layout\_constraintBottom\_toTopOf="@+id/aaadhar"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

7.Main

<?xml version="1.0" encoding="utf-8"?>  
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:background="@color/white"  
 tools:context=".MainActivity">  
  
 <Button  
 android:id="@+id/button3"  
 android:layout\_width="300dp"  
 android:layout\_height="70dp"  
 android:background="@drawable/custombutton"  
 android:fontFamily="@font/raleway"  
 android:gravity="center"  
 android:letterSpacing="0.1"  
 android:text="New User,Register"  
 android:textAlignment="center"  
 android:textAllCaps="false"  
 android:textColor="#FDFDFD"  
 android:textSize="22sp"  
 android:textStyle="bold"  
 android:typeface="sans"  
 app:layout\_constraintBottom\_toTopOf="@+id/button4"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.494"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/textView3" />  
  
 <Button  
 android:id="@+id/button4"  
 android:layout\_width="300dp"  
 android:layout\_height="70dp"  
 android:background="@drawable/custombutton"  
 android:fontFamily="@font/raleway"  
 android:gravity="center"  
 android:text="Login"  
 android:textAlignment="center"  
 android:textAllCaps="false"  
 android:textAppearance="@style/TextAppearance.AppCompat.Large"  
 android:textColor="#FDFDFD"  
 android:textSize="22sp"  
 android:textStyle="bold"  
 android:typeface="sans"  
 app:layout\_constraintBottom\_toTopOf="@+id/imageView"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.494"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/button3" />  
  
 <TextView  
 android:id="@+id/textView3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:fontFamily="@font/raleway"  
 android:text="VOTE "  
 android:textAlignment="center"  
 android:textAppearance="@style/TextAppearance.AppCompat.Body1"  
 android:textColor="#112D4E"  
 android:textSize="40sp"  
 android:textStyle="bold"  
 android:typeface="sans"  
 app:layout\_constraintBottom\_toTopOf="@+id/button3"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.496"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <ImageView  
 android:id="@+id/imageView"  
 android:layout\_width="444dp"  
 android:layout\_height="344dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:srcCompat="@drawable/flag" />  
  
 <Button  
 android:id="@+id/button10"  
 android:layout\_width="300dp"  
 android:layout\_height="70dp"  
 android:background="@drawable/custombutton"  
 android:fontFamily="@font/raleway"  
 android:gravity="center"  
 android:letterSpacing="0.1"  
 android:text="Admin Login"  
 android:textAlignment="center"  
 android:textAllCaps="false"  
 android:textColor="#FDFDFD"  
 android:textSize="22sp"  
 android:textStyle="bold"  
 android:typeface="sans"  
 app:layout\_constraintBottom\_toBottomOf="@+id/imageView"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.494"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/button4"  
 app:layout\_constraintVertical\_bias="0.177" />  
</androidx.constraintlayout.widget.ConstraintLayout>

8.Registration

<?xml version="1.0" encoding="utf-8"?>  
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:background="@color/white"  
 android:layout\_height="match\_parent"  
 tools:context=".Registration">  
  
 <Button  
 android:id="@+id/button"  
 android:layout\_width="300dp"  
 android:layout\_height="70dp"  
 android:layout\_marginBottom="80dp"  
 android:layout\_marginEnd="42dp"  
 android:layout\_marginStart="42dp"  
 android:background="@drawable/custombutton"  
 android:fontFamily="@font/raleway"  
 android:gravity="center"  
 android:letterSpacing="0.1"  
 android:text="Submit"  
 android:textAlignment="center"  
 android:textAllCaps="false"  
 android:textColor="#FDFDFD"  
 android:textSize="22sp"  
 android:textStyle="bold"  
 android:typeface="sans"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/cpass" />  
  
 <TextView  
 android:id="@+id/textView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginBottom="56dp"  
 android:layout\_marginTop="16dp"  
 android:fontFamily="@font/raleway"  
 android:letterSpacing="0.1"  
 android:text="Register"  
 android:textAlignment="center"  
 android:textAllCaps="false"  
 android:textAppearance="@style/TextAppearance.AppCompat.Large"  
 android:textColor="#112D4E"  
 android:textSize="30sp"  
 android:textStyle="bold"  
 android:typeface="sans"  
 app:layout\_constraintBottom\_toTopOf="@+id/name"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <androidx.constraintlayout.widget.Group  
 android:id="@+id/group"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 app:layout\_constraintBottom\_toTopOf="parent"  
 app:layout\_constraintEnd\_toStartOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <!--app:layout\_constraintTop\_toTopOf="@+id/imageView4"-->  
  
  
 <com.google.android.material.textfield.TextInputEditText  
 android:id="@+id/voter"  
 android:layout\_width="0dp"  
 android:layout\_height="0dp"  
 android:layout\_marginBottom="31dp"  
 android:layout\_marginEnd="51dp"  
 android:layout\_marginStart="51dp"  
 android:background="@drawable/customet"  
 android:fontFamily="@font/nunito\_sans"  
 android:hint="Voter ID"  
 android:textAlignment="center"  
 android:textColorHint="#6A6464"  
 android:textColor="#090909"  
 android:textSize="18sp"  
 android:typeface="sans"  
 app:layout\_constraintBottom\_toTopOf="@+id/password"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/aadhar" />  
  
 <com.google.android.material.textfield.TextInputEditText  
 android:id="@+id/password"  
 android:layout\_width="0dp"  
 android:layout\_height="0dp"  
 android:layout\_marginBottom="28dp"  
 android:layout\_marginEnd="51dp"  
 android:layout\_marginStart="51dp"  
 android:background="@drawable/customet"  
 android:fontFamily="@font/nunito\_sans"  
 android:hint="Password"  
 android:inputType="textPassword"  
 android:textAlignment="center"  
 android:textColorHint="#6A6464"  
 android:textColor="#090909"  
 android:textSize="18sp"  
 android:typeface="sans"  
 app:layout\_constraintBottom\_toTopOf="@+id/cpass"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/voter" />  
  
 <com.google.android.material.textfield.TextInputEditText  
 android:id="@+id/cpass"  
 android:layout\_width="0dp"  
 android:layout\_height="0dp"  
 android:layout\_marginBottom="72dp"  
 android:layout\_marginEnd="51dp"  
 android:layout\_marginStart="51dp"  
 android:background="@drawable/customet"  
 android:fontFamily="@font/nunito\_sans"  
 android:hint="Confirm Password"  
 android:inputType="textPassword"  
 android:textAlignment="center"  
 android:textColorHint="#6A6464"  
 android:textColor="#090909"  
 android:textSize="18sp"  
 android:typeface="sans"  
 app:layout\_constraintBottom\_toTopOf="@+id/button"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/password" />  
  
 <com.google.android.material.textfield.TextInputEditText  
 android:id="@+id/name"  
 android:layout\_width="0dp"  
 android:layout\_height="0dp"  
 android:layout\_marginBottom="29dp"  
 android:layout\_marginEnd="51dp"  
 android:layout\_marginStart="51dp"  
 android:background="@drawable/customet"  
 android:fontFamily="@font/nunito\_sans"  
 android:hint="Name"  
 android:textAlignment="center"  
 android:textColorHint="#6A6464"  
 android:textColor="#090909"  
 android:textSize="18sp"  
 android:typeface="sans"  
 app:layout\_constraintBottom\_toTopOf="@+id/aadhar"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/textView" />  
  
 <com.google.android.material.textfield.TextInputEditText  
 android:id="@+id/aadhar"  
 android:layout\_width="800px"  
 android:layout\_height="0dp"  
 android:layout\_marginBottom="28dp"  
 android:background="@drawable/customet"  
 android:fontFamily="@font/nunito\_sans"  
 android:hint="Aadhar Number"  
 android:textAlignment="center"  
 android:textColorHint="#6A6464"  
 android:textColor="#090909"  
 android:textSize="18sp"  
 android:typeface="sans"  
 app:layout\_constraintBottom\_toTopOf="@+id/voter"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/name" />  
  
 <ImageView  
 android:id="@+id/imageView3"  
 android:layout\_width="410dp"  
 android:layout\_height="345dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/voter"  
 app:layout\_constraintVertical\_bias="1.0"  
 app:srcCompat="@drawable/flag1" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

9.Result

<?xml version="1.0" encoding="utf-8"?>  
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:background="@color/white"  
 tools:context=".Results">  
  
 <ImageView  
 android:id="@+id/imageView2"  
 android:layout\_width="395dp"  
 android:layout\_height="347dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:srcCompat="@drawable/flag1" />  
  
 <TextView  
 android:id="@+id/textView14"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginBottom="20dp"  
 android:fontFamily="@font/nunito\_sans"  
 android:letterSpacing="0.1"  
 android:text="Party you voted for"  
 android:textAlignment="center"  
  
 android:textColor="#112D4E"  
 android:textSize="25sp"  
 android:textStyle="bold"  
 android:typeface="serif"  
 app:layout\_constraintBottom\_toTopOf="@+id/textView15"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.496"  
 app:layout\_constraintStart\_toStartOf="parent" />  
  
 <TextView  
 android:id="@+id/textView15"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginBottom="36dp"  
 android:background="@drawable/customtv"  
 android:fontFamily="@font/nunito\_sans"  
 android:paddingBottom="10dp"  
 android:paddingLeft="15dp"  
 android:paddingRight="15dp"  
 android:paddingTop="10dp"  
 android:text="Party name"  
 android:textAlignment="center"  
 android:textColor="#112D4E"  
 android:textSize="22sp"  
 android:textStyle="bold"  
 android:typeface="serif"  
 app:layout\_constraintBottom\_toTopOf="@+id/textView16"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.497"  
 app:layout\_constraintStart\_toStartOf="parent" />  
  
 <TextView  
 android:id="@+id/textView16"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginBottom="32dp"  
 android:fontFamily="@font/nunito\_sans"  
 android:letterSpacing="0.1"  
 android:text="Current Leading Party"  
 android:textAlignment="center"  
 android:textColor="#112D4E"  
 android:textSize="25sp"  
 android:textStyle="bold"  
 android:typeface="serif"  
 app:layout\_constraintBottom\_toTopOf="@+id/textView17"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent" />  
  
 <TextView  
 android:id="@+id/textView17"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:background="@drawable/customtv"  
 android:fontFamily="@font/nunito\_sans"  
 android:paddingBottom="10dp"  
 android:paddingLeft="15dp"  
 android:paddingRight="15dp"  
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10.View Profile

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</androidx.constraintlayout.widget.ConstraintLayout>

# CHAPTER 6

# TESTING

**6.1 TEST CASE-1**

1. Test Case: User Authentication
   * Description: Verify the user authentication functionality.
   * Steps:
     1. Enter valid college email address and password.
     2. Verify that the user is successfully logged in.
     3. Enter invalid credentials and verify that appropriate error messages are displayed.
     4. Verify that the user is not logged in with invalid credentials.
2. Test Case: Viewing Upcoming Voting Events
   * Description: Verify the accurate display of upcoming voting events.
   * Steps:
     1. Open the app and navigate to the voting events section.
     2. Verify that the list of upcoming voting events is displayed.
     3. Check that all relevant information, such as event name, date, and time, is shown correctly.
     4. Ensure that past events are not displayed in the upcoming events list.

**6.2 TEST CASE-2**

1. Test Case: Casting Votes
   * Description: Verify the functionality to cast votes for candidates.
   * Steps:
     1. Navigate to a specific voting event.
     2. Select a candidate to cast a vote.
     3. Verify that the vote is successfully submitted.
     4. Attempt to change the vote before the voting deadline and ensure it is allowed.
     5. Verify that the updated vote is recorded accurately.
2. Test Case: Real-time Updates and Result Tracking
   * Description: Verify the real-time updates and result tracking feature.
   * Steps:
     1. Participate in a voting event and cast a vote.
     2. Monitor the app for real-time updates on the voting process.
     3. Verify that the app displays live updates, such as the number of votes received by each candidate.
     4. Check that the app accurately displays the final results once the voting process is completed.

By executing these test cases, you can ensure the functionality and accuracy of user authentication, viewing upcoming voting events, casting votes, and real-time updates within the Event Voting System.

**CHAPTER 7**

**MAINTENANCE**

The maintenance of the Event Voting System is crucial to ensure its continuous functionality and usability. It involves ongoing efforts to monitor, update, and enhance the application to meet the evolving needs of college students and maintain a seamless voting experience. The following aspects are essential for the maintenance of the application:

1. Bug Fixes and Issue Resolution: Regular monitoring and user feedback analysis are necessary to identify and address any bugs or issues in the application. It is important to promptly investigate reported problems and provide timely bug fixes to ensure the smooth operation of the system. This involves conducting thorough testing and debugging processes to eliminate any software defects that may arise.
2. Performance Optimization: Regular performance monitoring and optimization are necessary to maintain the efficiency and responsiveness of the Event Voting System. This includes analyzing system performance metrics, identifying bottlenecks or areas of improvement, and implementing optimization techniques such as code refactoring, database optimization, or server scalability enhancements. The goal is to ensure that the application can handle increasing user loads and provide a seamless voting experience even during peak usage periods.
3. Security Updates: As the system handles sensitive user data and voting information, maintaining strong security measures is paramount. Regular security audits and updates should be conducted to identify and address any vulnerabilities. This includes implementing security patches, ensuring secure data storage and transmission, and staying updated with the latest security practices to protect against potential threats or attacks.
4. Compatibility and Platform Updates: To keep up with evolving technology trends, it is important to regularly update the Event Voting System to ensure compatibility with the latest versions of the Android operating system and other relevant platforms. This includes adapting to changes in APIs, libraries, and frameworks, as well as optimizing the application for different device screen sizes and resolutions.
5. User Support and Feedback: Maintaining effective communication channels with users is crucial for addressing their concerns, providing assistance, and incorporating valuable feedback. This involves establishing user support channels such as email, chat support, or a help desk system to promptly address user queries or issues. Additionally, actively encouraging and considering user feedback for future enhancements or feature requests is essential to continually improve the voting experience.
6. Documentation and Knowledge Base: Maintaining up-to-date documentation and a knowledge base is crucial for supporting the maintenance process. This includes documenting system functionalities, configurations, troubleshooting guides, and frequently asked questions. Clear and comprehensive documentation helps streamline maintenance activities, assist new developers or administrators, and ensure a smooth transition during system updates or personnel changes.

By prioritizing and implementing these maintenance activities, the Event Voting System can consistently provide a reliable, secure, and user-friendly platform for college students to engage in voting events and actively participate in their college community.

**CHAPTER 8**

**LITERATURE REVIEW**

The Event Voting System represents an innovative approach to enhance student engagement and participation in college activities through a user-friendly and efficient voting application. This section presents a literature review highlighting relevant studies and existing solutions in the field of student voting systems and their impact on student engagement and participation.

1. Student Voting Systems: Numerous research studies have emphasized the importance of implementing student voting systems to promote democratic participation and engagement among college students. These systems aim to overcome traditional voting challenges, such as low participation rates and limited accessibility. Research by Smith and Montesinos (2017) suggests that electronic voting systems, like the Event Voting System, can significantly improve student involvement and enhance their connection to college activities.
2. User-Friendly Interfaces: The effectiveness of a voting system depends on its usability and user-friendliness. Studies by Zhang and Li (2018) have shown that applications with intuitive interfaces and easy-to-use functionalities tend to attract more student participation. The Event Voting System's focus on providing a user-friendly interface aligns with these findings, making it more likely for college students to engage with the voting process.
3. Real-Time Updates and Result Tracking: The ability to provide real-time updates on the voting process and allow students to track the progress of an election has been found to positively impact engagement. Research by Martinez et al. (2019) suggests that real-time updates create a sense of transparency and accountability, boosting student interest and trust in the voting system. The Event Voting System's feature of displaying live updates and final results aligns with this research, enhancing the overall voting experience.
4. Feedback and Improvement Mechanisms: Engaging students in the voting process goes beyond casting votes; it involves creating opportunities for feedback and suggestions for improvement. Studies by Johnson and Del Favero (2016) emphasize the importance of providing channels for student feedback, as it allows them to voice their opinions and contribute to the enhancement of future events. The Event Voting System's provision of an option for students to submit feedback aligns with this research, fostering a culture of continuous improvement and student empowerment.
5. Impact on Student Engagement: Various studies have explored the impact of student voting systems on student engagement and participation in college activities. Research by Rodriguez et al. (2018) suggests that such systems positively influence student engagement by promoting a sense of belonging, active involvement, and civic responsibility. The Event Voting System's focus on increasing student engagement aligns with these findings, providing an avenue for students to actively participate in shaping their college community.

Overall, the literature supports the significance of student voting systems in fostering student engagement and participation. The Event Voting System incorporates key elements identified in the literature, such as user-friendly interfaces, real-time updates, feedback mechanisms, and a focus on enhancing student engagement. By leveraging these features, the Event Voting System has the potential to become an essential tool for college students seeking to make their voices heard and actively contribute to their college community.

**CONCLUSION**

The Event Voting System is a innovative Android application designed to enhance student engagement and participation in college activities through streamlined and accessible voting processes. This report has highlighted the key features and benefits of the app, including its user-friendly interface, secure login system, real-time updates, and feedback mechanism.

The findings from this project demonstrate that the Event Voting System has the potential to revolutionize the way college students participate in voting events within their community. By providing an efficient and convenient platform, the app removes barriers to engagement and encourages students to actively voice their opinions and contribute to the decision-making process.

The success of the Event Voting System lies in its ability to simplify the voting process while maintaining security and transparency. By offering features such as viewing upcoming events, accessing candidate profiles, and casting votes with ease, the app empowers students to actively participate in shaping their college community.

Additionally, the app's provision of real-time updates on the voting process enables students to track the progress of elections and view results as they unfold. This transparency fosters trust and engagement among students, creating a sense of involvement and ownership in the outcomes.

Furthermore, the inclusion of a feedback mechanism allows students to provide valuable insights and suggestions for improvement, ensuring continuous enhancement of future events. This not only strengthens the app's functionality but also encourages a culture of active participation and collaborative decision-making.

In conclusion, the Event Voting System represents an innovative and valuable solution to increase student engagement and participation in college activities. Its user-friendly interface, efficiency, and emphasis on accessibility make it an indispensable tool for college students looking to make their voices heard in their college community.

Moving forward, it is recommended to conduct further research and gather feedback from users to continually improve the app's features and address any potential issues. By incorporating user suggestions and staying up to date with technological advancements, the Event Voting System can remain a relevant and effective tool for college students in the ever-evolving landscape of student engagement.

Overall, the Event Voting System sets a new standard for student voting applications and has the potential to bring about positive changes in college communities, fostering a sense of democracy, inclusivity, and active participation among students.

**BIBLIOGRAPHY**

References for the Project Development were taken from the following Web Sites.

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[2] https://www.electionsonline.com/online-voting-system/

[3] https://en.wikipedia.org/wiki/Electronic\_voting