

Andriod Voting System



VOTE

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Android Voting System

Abstract :

The android voting system is an android application that provides a new technique of casting votes using mobile phones. This application is especially developed for organizations, corporations and commercial businesses to get employees opinions whenever there is any new policy implemented or any issue being investigated or during controversies. The project provides an effective solution in resolving all the arguments that occurs in organizations by considering all employees opinions.

Introduction:

The system has an admin login that has overall control over it. Admin feed the issues or arguments in the system along with desired options. These questions can then be visible to all the employees through android devices. Employees have to first create an account into the system for casting their votes. At the end of the voting process the system counts all the votes casted and generates a brief report of the total votes accounted for yes, no and neutral. Eventually, the report is made available to admin and he may view the maximum votes casted for. Hence the system helps admin to receive appropriate response from employees for the matters in question.

Existing System

- 1- In existing system, if you wish to vote for someone, then you have to go to the destination where the voting procedure is going on and then only you can vote for him or her.
- 2- Existing system does not provide people the way in which they can get the details about the nominees as well. They can't get to know the history of the people for whom they are standing in queue for giving their votes.
- 3- The problems of the existing manual system of voting include among others the following:
 - Expensive and Time Consuming
 - Too Much Paper Work
 - Errors during data Entry
 - Loss of registration forms

PROJECT JUSTIFICATION

- 1- Provision of improved voting services to voter through fast and convenient voting.
- 2- Reduction of the cost incurred by the organization during voting time in paying the very many clerks employed for the sake of success of the manual system.
- 3- Check to ensure that the members who are registered are the only ones who should vote.
- 4- reinforce its transparency and fairness.
- 5- Increased turnout of Votes.

Proposed System

- 1- Proposed system is highly automated and greatly technical In this system, not even you can vote via sitting at your own place but also you can learn about laws and regulations related to voting.
- 2- Also not only this but you can access the profile of the nominees through which you can learn about their history, their education, and their personal details and so on.
- 3- Using this online voting android based project, end users do not faces any difficulties as because they don't have to make registration before submitting their answers.

Overview of the System

- 1- The Android voting system is an application which is a new process of casting votes from any place and at any time.
- 2- The proposed system is a flexible means of casting the votes irrespective of the place and time of the day.
- 3- This technique is best suited for the modern day organizations where the management can get the opinion of the employees regarding introduction of new policies or rules by taking votes through this system.
- 4- So there are less chances of multiple voting by single voter and hence less chances of manipulation in this system of voting.
- 5- The android voting system is an android application that phones.
- 6- This application is especially developed for organizations, corporations and commercial businesses to get employees opinions whenever there is any new policy implemented or any issue being investigated or during controversies. The project provides an effective solution in resolving all the arguments that occurs in organizations by considering all employees opinions.

Advantages:

- The system can be used anytime and from anywhere by the employees.
- It excludes the use of manual voting process.
- Employees can keep themselves updated with all things going on in the organization.
- No one can cast votes on behalf of others and multiple times.
- Saves time and reduces human intervention.
- It makes employees happy as their opinions are considered for the matters in organization.
- Admin can get instant result.
- The system is flexible and secured to be used.

Disadvantages:

- Every Voter must have an android device for casting the vote.
- It requires a reasonable degree of literacy and numeracy to be used effectively
- Vulnerability to hacking
- Voter verified All fully-electronic (touch screen, internet) voting systems are subject to the limitations and risks of computer technology.
- This includes the inability to detect the presence of hardware and/or software that could be used, deliberately or inadvertently, to alter voting outcomes.

Modules of the System

Voter Module:

In this module, user who is going to give his or her vote have to make his or her account in order to get access to the voting system and into the modules which contains details about the Vote.

Admin Module:

Admin checks the data and the valid voter. Admin also gives the result once the Voting is conducted. Only Admin is authorized to check the Result.

Voting Module:

In this module, all the process related to voting and votes are given into this module. Voters can access to this module via their personal account only.

System Requirement Analysis

Functional Requirements

- The system will be able to allow the Voters to create an account.
- Allow registered users to login to the system.
- The system should authenticate users during login.
i.e the user should be what he/she claims to be.
- The system should allow an authenticated user to cast a vote.
- The system should send voting results to Voters.
- The system should allow the administrator (voting officer) to Manage Voters .

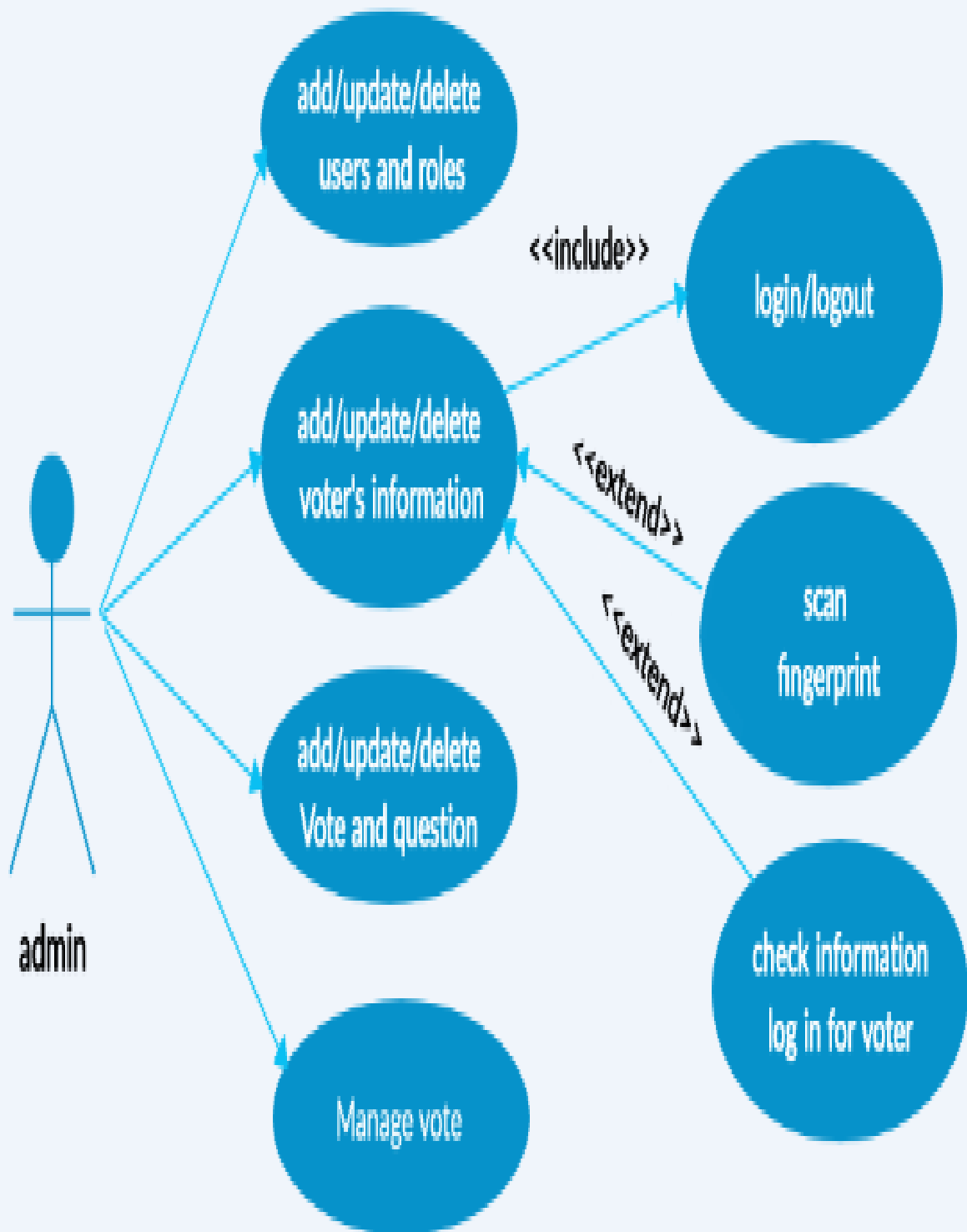
Non-Functional Requirements

- System will support response time for addressing severe issues in less time.
- system will provide documentation to inform users of system functionality and any change to the system .
- system will provide friendly graphical Interface to ensure ease of use when end users utilize system functionality.(Usability) .
- The system will be able to be integrated in future if need be .
- The application will be available all the time for Voters on Google play to download .

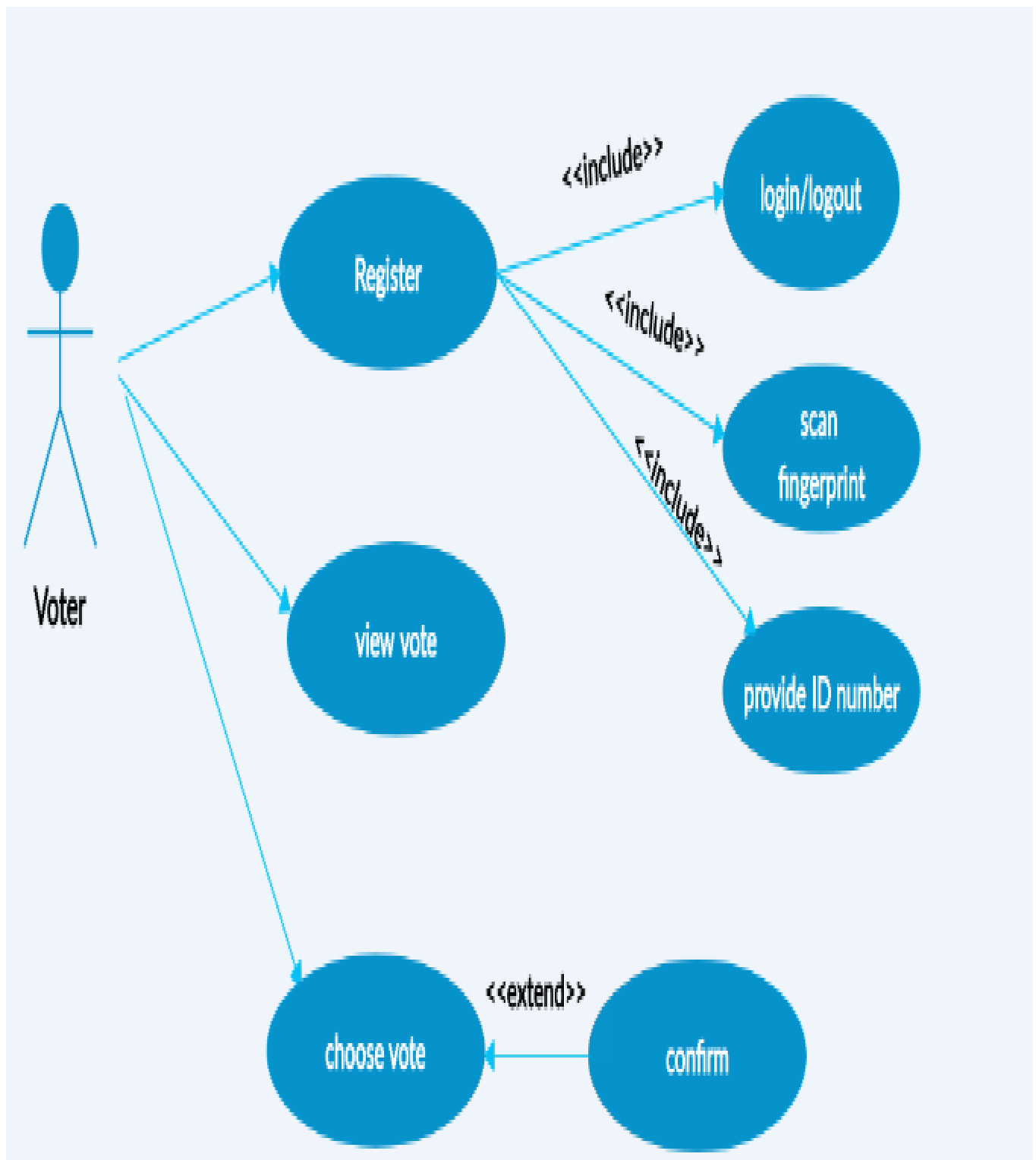
Use Case Diagram

- Use case diagrams are usually referred to as behavior diagrams used to describe a set of actions (use cases) that some system or systems (subject) should or can perform in collaboration with one or more external users of the system (actor)
- Each use case should provide some observable and valuable result to the actors or other stakeholders of the system result .

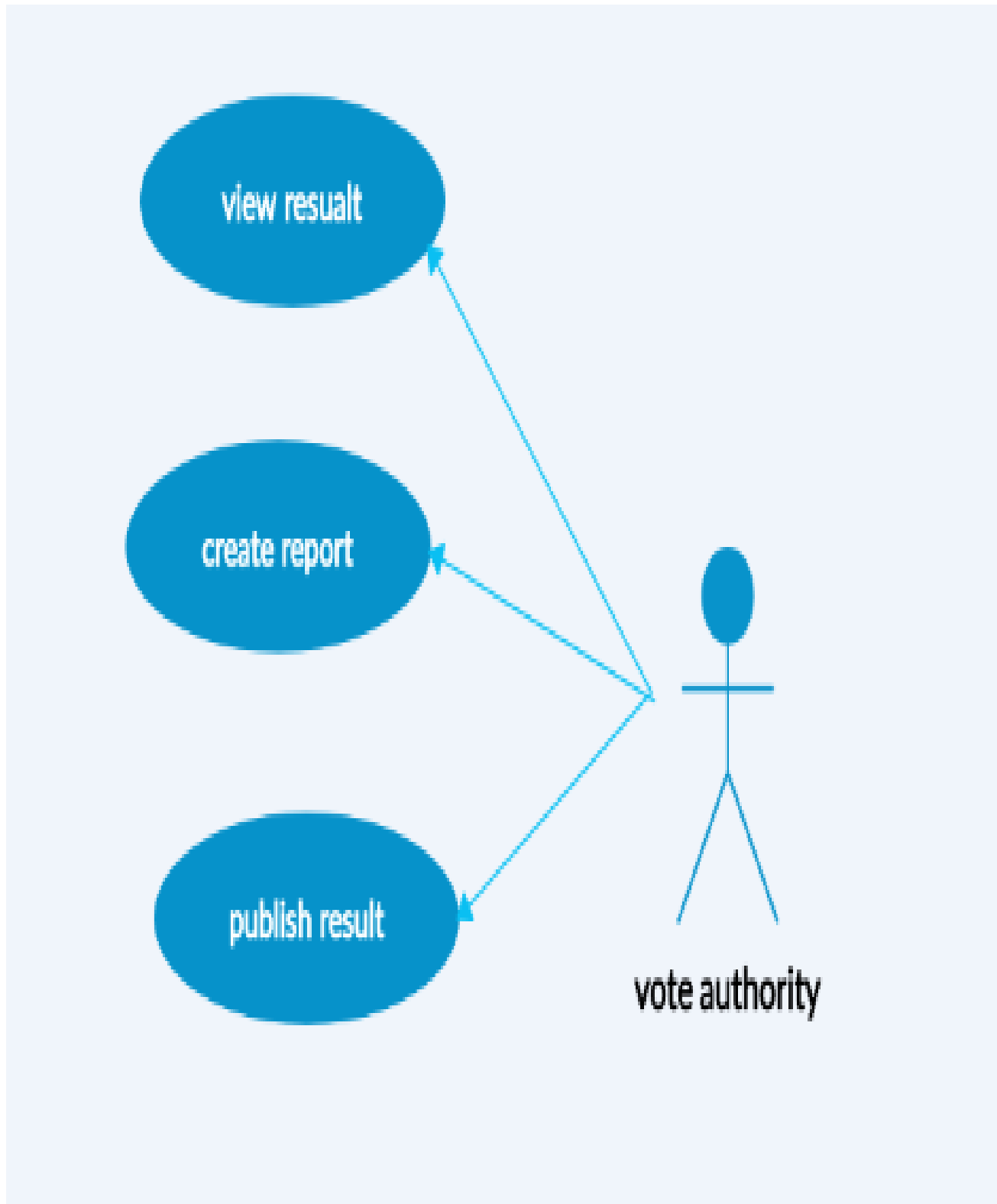
Use case for Admin



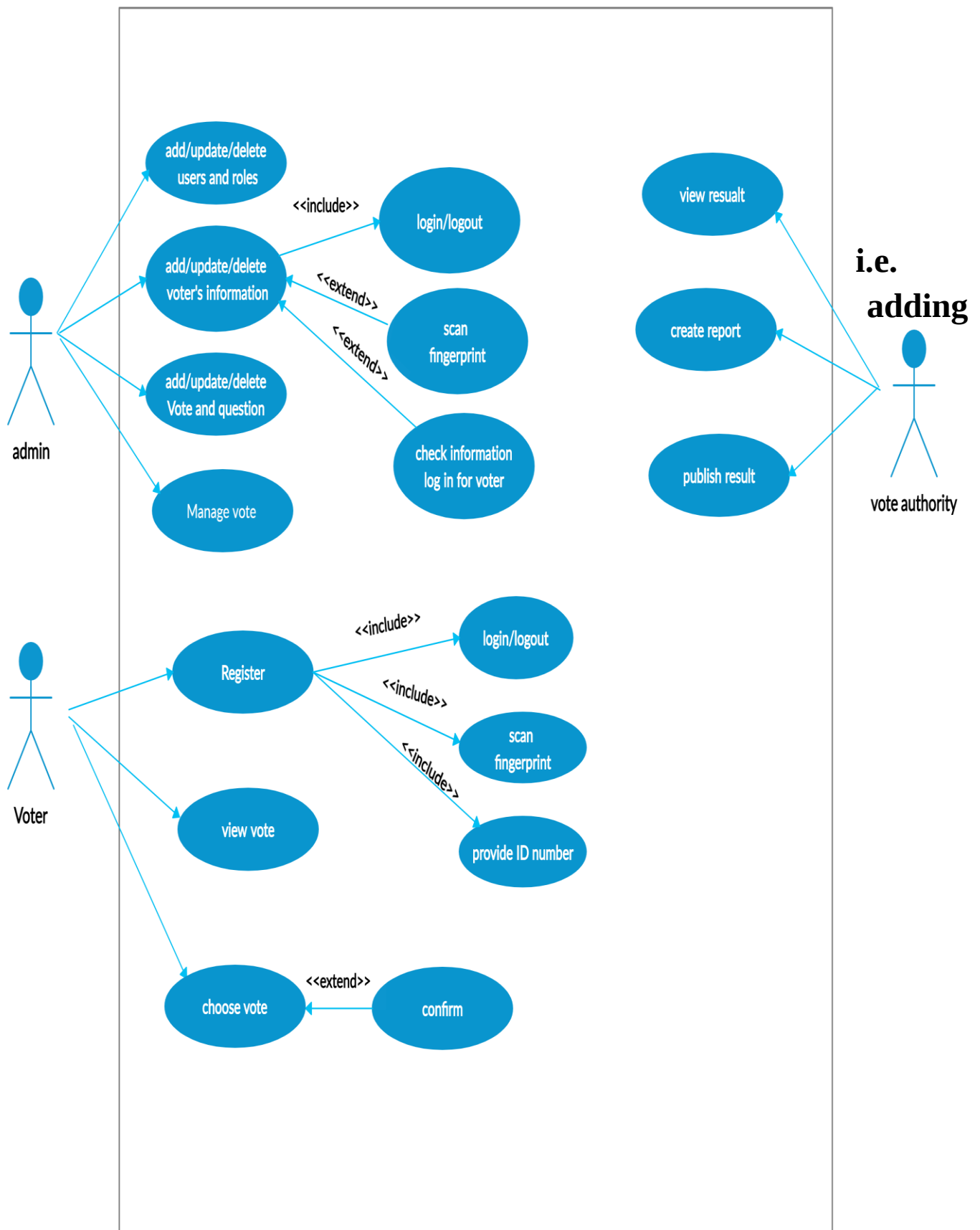
Use case for Voter



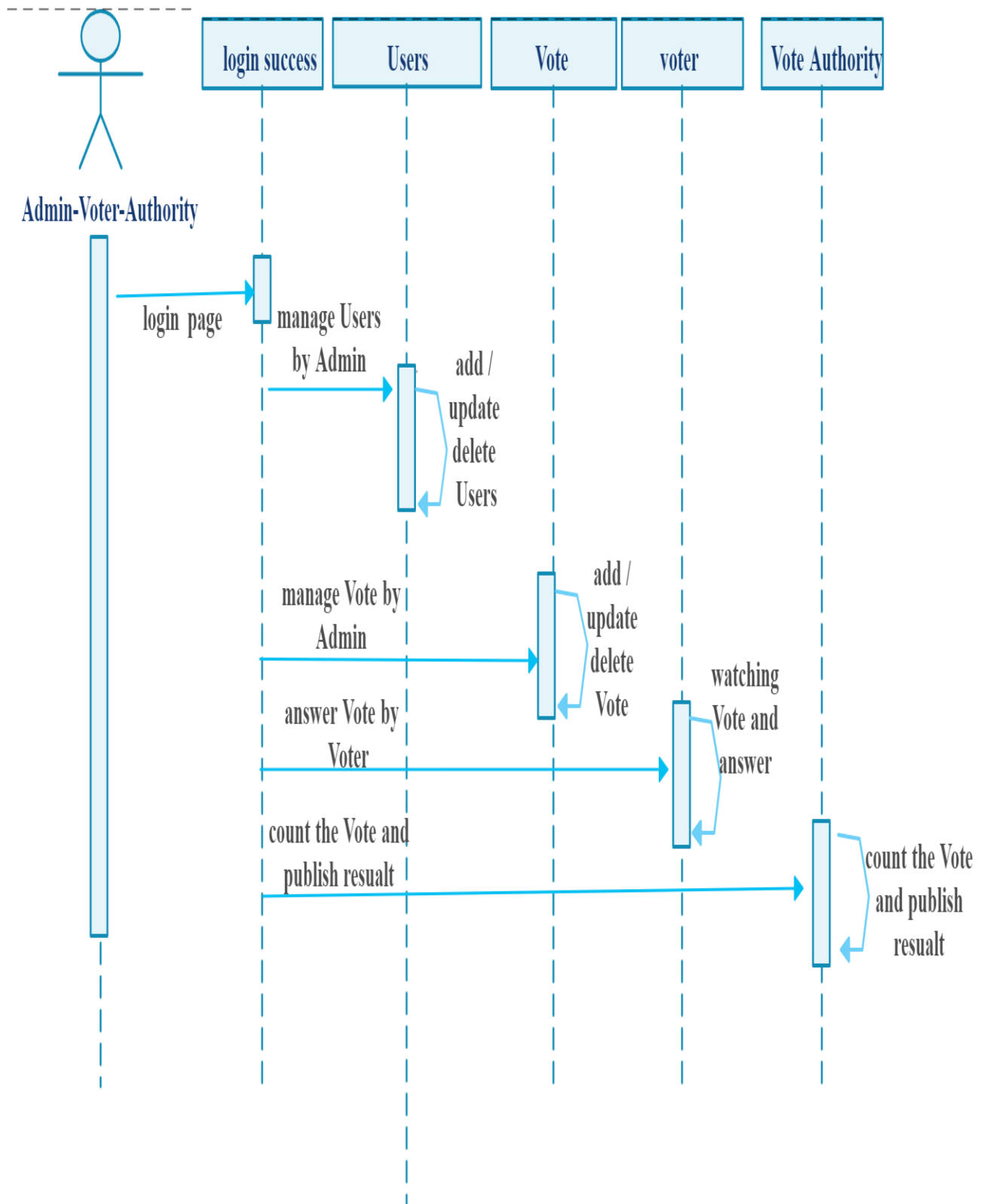
Use case for Authority



Use case for All System



Sequence Diagram



System Design

3.1 ERD : Entity Relationship Diagram

- An entity relationship diagram (ERD) shows the relationships of entity sets stored in a database. An entity in this context is a component of data.
- In other words, ER diagrams illustrate the logical structure of databases.
- At first glance an entity relationship diagram looks very much like a flowchart. It is the specialized symbols, and the meanings of those symbols, that make it unique.

Uses of entity relationship diagrams:

Database design: ER diagrams are used to model and design relational databases, in terms of logic and business rules (in a logical data model) and in terms of the specific technology to be implemented (in a physical data model.) In software engineering, an ER diagram is often an initial step in determining requirements for an information systems project. It's also later used to model a particular database or databases. A relational database has an equivalent relational table and can potentially be expressed that way as needed.

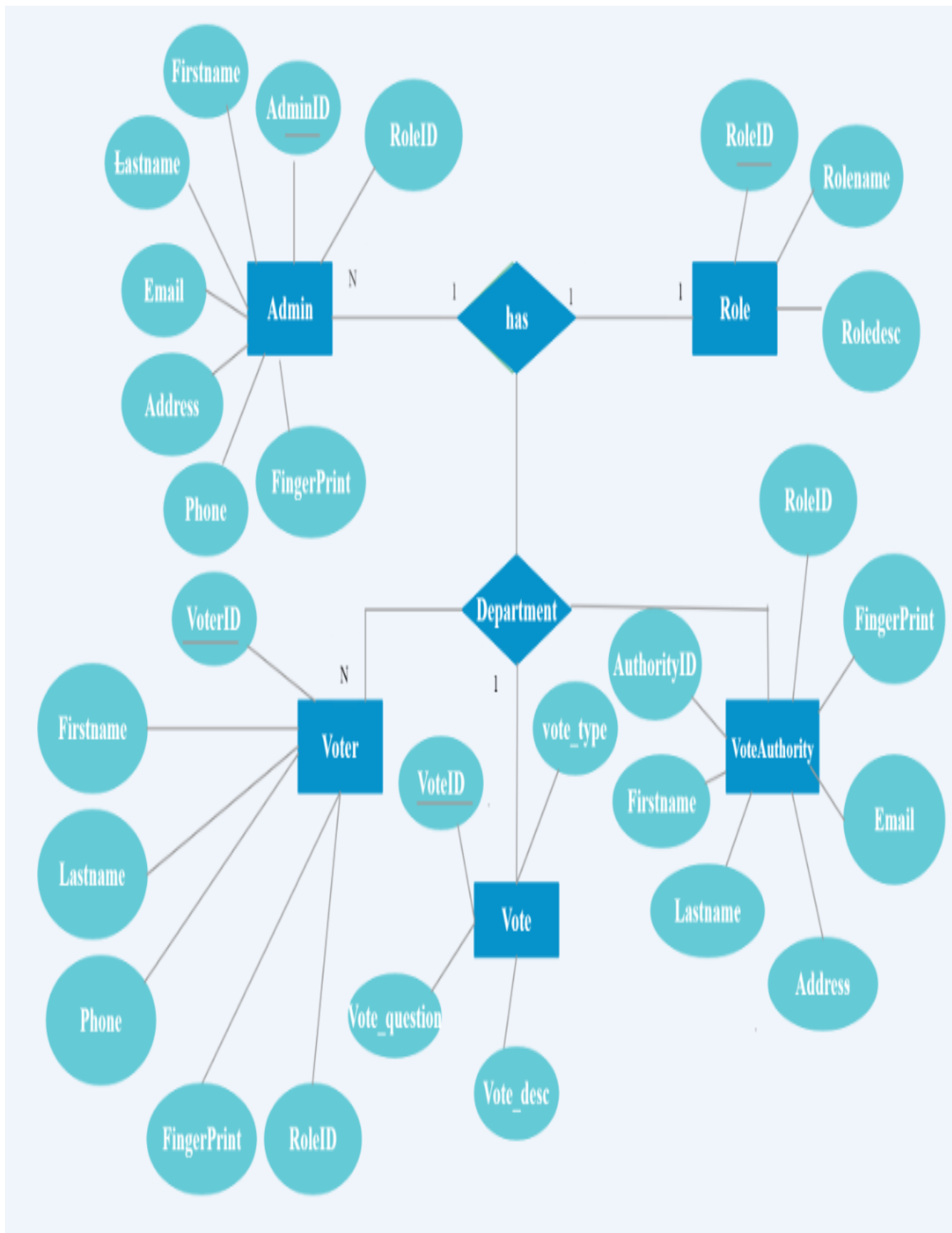
- **Database troubleshooting:**

ER diagrams are used to analyze existing databases to find and resolve problems in logic or deployment. Drawing the diagram should reveal where it's going wrong.

The components and features of an ER diagram:

Component	Shape
Entity	
Relationship	
Attribute	
Cardinality	

ER Diagram



Database Diagram

- 1- The Database Designer is a visual tool that allows you to design and visualize a database to which you are connected.
- 2- When designing a database, you can use Database Designer to create, edit, or delete tables, columns, keys, indexes , relationships, and constraints.
- 3- To visualize a database, you can create one or more diagrams illustrating some or all of the tables, columns, keys, and relationships in it.

Admin Table

	Name	Type	constraint	Description
1	AdminID	Int	Primary Key	ID of the Admin
2	Firstname	Varchar	Not null	First name of the Admin
3	Lastname	Varchar	Not null	Last name of the Admin
4	Email	Varchar	Not null	Email of the Admin
5	Address	Varchar	Null	Address of the Admin
6	Phone	Varchar	Not null	Phone of the Admin
7	Fingerprint	Varchar	Not null	Fingerprint of the Admin
8	RoleID	Int	Foreign key	Permission of the Admin

Voter Table

	Name	Type	constraint	Description
1	Voter ID	Int	Primary Key	ID of the Voter
2	Firstname	Varchar	Not null	First name of the Voter
3	Lastname	Varchar	Not null	Last name of the Voter
4	Email	Varchar	Not null	Email of the Voter
5	Phone	Varchar	Not null	Phone of the Voter
6	Fingerprint	Varchar	Not null	Fingerprint of the Voter
7	RoleID	Int	Foreign key	Permission of the Voter

Voteauthority Table

	Name	Type	constraint	Description
1	AuthorityID	Int	Primary Key	ID of the Vote authority
2	Firstname	Varchar	Not null	First name of the Vote authority
3	Lastname	Varchar	Not null	Last name of the Vote authority
4	Email	Varchar	Not null	Email of the Vote authority
5	Address	Varchar	Null	Address of the Vote authority
6	Phone	Varchar	Not null	Phone of the Vote authority
7	Fingerprint	Varchar	Not null	Fingerprint of the Vote authority
8	RoleID	Int	Foreign key	Permission of the Vote authority

Vote Table

	Name	Type	constraint	Description
1	VoteID	Int	Primary Key	ID of the Vote
2	Votequestion	Varchar	Not null	Question of the Vote
3	Votetype	Varchar	Not null	Type of the Vote
4	Votedesc	Varchar	Not null	Description of the Vote authority

Role Table

	Name	Type	constraint	Description
1	RoleID	Int	Primary Key	ID of the permission
2	Rolename	Varchar	Not null	Name of the permission
3	Roledesc	Varchar	Not null	Description of the permission

Application User Interface

User interface design is the overall design refers to human-computer interaction, operational logic and stunning interface of the software. Good interface design can not only make the application looks special, but also make the operations become more simple and comfortable. It can fully display the positioning and elements of the application. Here are some basic Application user interface design principles that we should be aware of.

Principle 1: Clarity:

Clarity is the most important Application user interface design principle, it means that users can effectively use the interface

Principle 2: User-centered design:

Application UI designers should know about who is your target user and how to put yourself in user's shoes to consider about the design process. User is the one who will experience your final product.

Principle 3: KISS (Keep It Simple And Stupid):

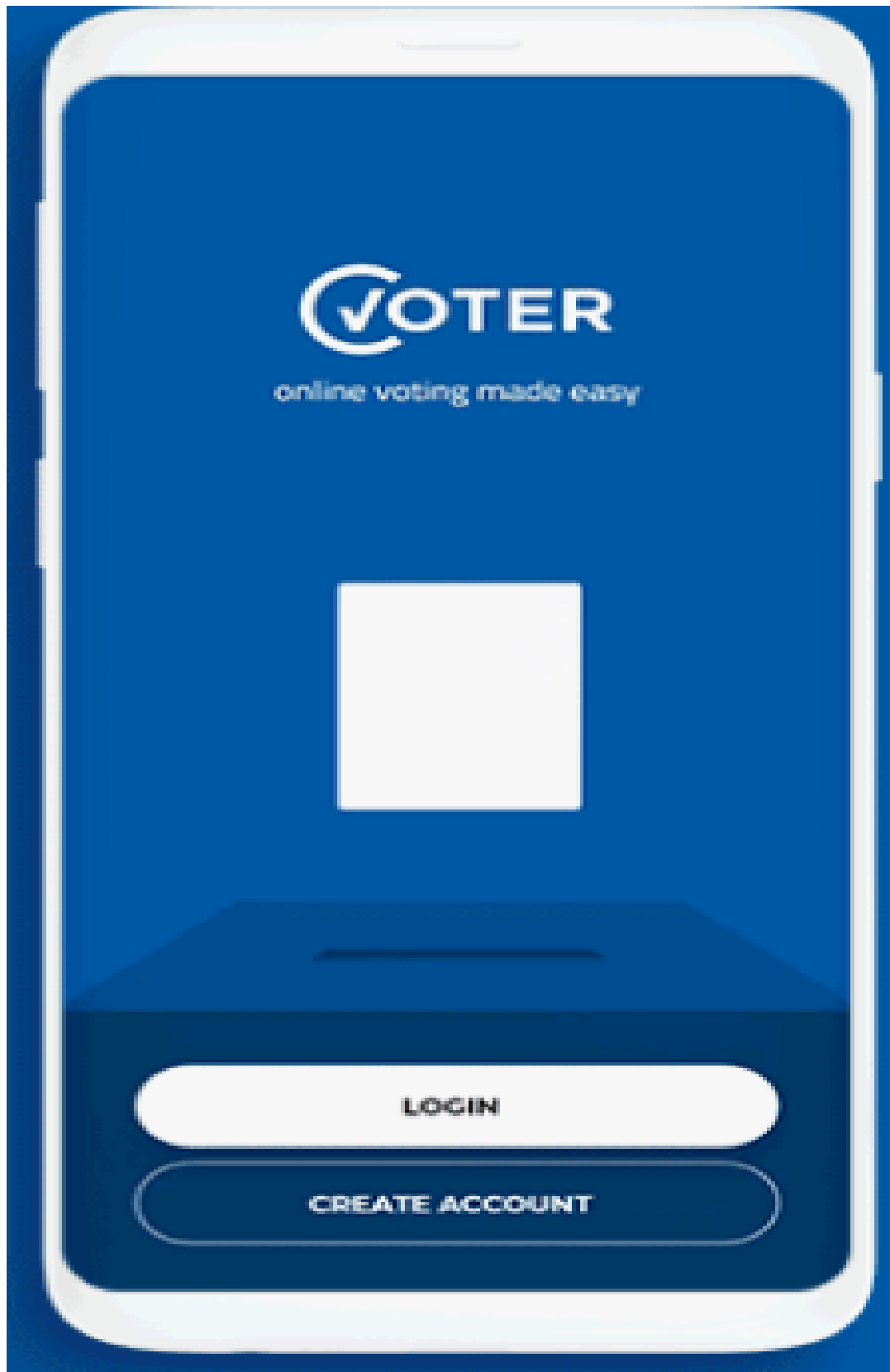
KISS, which is the most basic Application user interface design principle. Users always feel most comfortable when they can control something. User's habits and abilities have a huge difference, they aren't Application designers, and they cannot fully understand the design principles and operations of the Application you have designed, what you do is to reduce the burden on users, keep operations simple and stupid.

Principle 4: Consistency:

Consistency is the main principle of Application UI design. Consistent construction design can leave a good impression on user's mind; Consistent navigation design can guide users to find their most needed information quickly and effectively.

Principle 5: Strong visual hierarchy:

Visual hierarchy is the key principle of Application user interface design and it can be achieved when there is a clear viewing order to the visual elements on a screen.









Conclusion

This is a simple visualization of the site's screens in the design, analysis and initial thinking of the Application. Changes may be made to this design during the final implementation phase of the site. I hope that my project will be on your satisfaction and God is the conciliator.

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