

# Online Voting System in Python

Python · Tkinter (GUI) · OOP

Purpose:

- Digitize the voting process
- Provide secure, user-friendly voting
- Prevent multiple votes by the same user
- Display real-time election results

Presented By:

- Abid Hossain Haque
- Rabby
- Sakib

# System Design

## Object-Oriented Structure

- Voter: Stores name, ID, and voting status
- Candidate: Stores name, party, vote count
- Election: Manages voting logic, stores candidates & voters

## GUI Features (Tkinter):

- Voter login screen
- Candidate selection (radio buttons)
- Vote submission with feedback
- Admin login to view results

# Core Functionalities

- ✓ Double voting is restricted
- ✓ Easy-to-use graphical interface
- ✓ Admin can view live results securely
- ✓ Winner is automatically highlighted with 🏆
- ✓ Each voter gets only one chance to cast their vote

# Conclusion & Future Scope

## Conclusion

- A complete voting simulation using OOP & GUI
- Demonstrates real-world concepts in a simple Python app

## Future Enhancements

- Save/load vote data from files
- Email/OTP verification
- Election start-end time
- Charts for vote distribution