# Simple Online Voting System - Python Project

## Source Code

# Simple Online Voting System  
# Developed in Python  
  
# Data structures to store candidates and voters  
candidates = {'Candidate 1': 0, 'Candidate 2': 0, 'Candidate 3': 0}  
voters = set()  
  
# Function to display the list of candidates  
def display\_candidates():  
 print("\nAvailable Candidates:")  
 for candidate, votes in candidates.items():  
 print(f"{candidate}: {votes} votes")  
  
# Function to allow users to vote  
def vote(voter\_id):  
 if voter\_id in voters:  
 print("You have already voted.")  
 return  
 print("\nPlease choose a candidate to vote for:")  
 display\_candidates()  
 choice = input("Enter the candidate name: ").strip()  
 if choice in candidates:  
 candidates[choice] += 1  
 voters.add(voter\_id)  
 print(f"Thank you for voting! Your vote for '{choice}' has been recorded.")  
 else:  
 print("Invalid candidate. Please try again.")  
  
# Function to view results (admin only)  
def view\_results():  
 print("\nCurrent Voting Results:")  
 for candidate, votes in candidates.items():  
 print(f"{candidate}: {votes} votes")  
  
# Function to reset votes (admin only)  
def reset\_votes():  
 global candidates, voters  
 for candidate in candidates:  
 candidates[candidate] = 0  
 voters.clear()  
 print("\nVoting system has been reset.")  
  
# Main program loop  
def main():  
 while True:  
 print("\n=== Simple Online Voting System ===")  
 print("1. Vote")  
 print("2. View Results (Admin Only)")  
 print("3. Reset Votes (Admin Only)")  
 print("4. Exit")  
 choice = input("Enter your choice: ").strip()  
  
 if choice == '1':  
 voter\_id = input("Enter your Voter ID: ").strip()  
 vote(voter\_id)  
 elif choice == '2':  
 admin\_password = input("Enter admin password: ").strip()  
 if admin\_password == "admin123": # Replace with a secure password  
 view\_results()  
 else:  
 print("Incorrect admin password.")  
 elif choice == '3':  
 admin\_password = input("Enter admin password: ").strip()  
 if admin\_password == "admin123": # Replace with a secure password  
 reset\_votes()  
 else:  
 print("Incorrect admin password.")  
 elif choice == '4':  
 print("Exiting the voting system. Thank you!")  
 break  
 else:  
 print("Invalid choice. Please try again.")  
  
# Entry point of the program  
if \_\_name\_\_ == "\_\_main\_\_":  
 main()