Election Class Diagram

Election Database

<<pkey>>: voterID Hash

voterID: Hash
candidate: Hash

1 ← stored- in — 3..*

Ballot

voterID: Hash
candidate: Hash

selectCandidate(candidate): void
submitBallot(): void

3..* — contains — 1

Voting System

candidates: Array List
parties: Array List

selectByParty(): void
search(candidate): void

1

certified-by

1

Administrator

adminLogin: String
snn: String
password: String
electsBotCode: String

login(username, password): void
register(username,password): void
selectElectionPeriod(start,end): void
countCandidateVote(): int
endElection(): void

1

Voter

voterID: String
password: String
driverLicense: String
snn: String
dateOfBirth: String
hasVoted: Boolean
race: String

login(username, password): void
register(username,password): void

3..* — 1..*

uses

Voting Terminal

adminLogin: String
electionID: String
machineNum: Int
location: String

initialize(): void
terminalSetup(): void
returnHome(): void

hosts

1

1..*

3..*

sets-up

1..*

verifies

registers

1

Registration System

adminLogin: String

addAdmin(admin, electsBotCode): void
addVoter(Voter): void
validateInput(): void
returnHome(): void

1 — stored in — 1

1

Authentication Database

<<pkey>>: SNN Hash

adminLogin: Hash
voterID: Hash
password: Hash
dateOfBirth: Hash
hasVoted: Boolean