Vote in Election

Description: This allows a student a student to vote in an election that he/she is allowed to vote in.

Inputs: Student Account info

Source: Student

Outputs: Submission successful message

Destination: Student

Processing:

Check if election is ready and voting period is open

Ensure student is permitted to vote in given election

Ensure student has not already filled out a ballot for current election

Load empty ballot

Accept student’s selections

Store ballot in database

Requirements: Empty ballot

Precondition: Has not voted in current election

Voting period is open

Ballot is created

Postcondition: Submitted ballot is stored in database

Updated list of ballots

Side Effects: Already voted

Responses to Abnormal Behavior:

Stability: Stable

Necessity: Mandatory

Backup Records

Description: Used to keep records up to date and store them in the database

Inputs: Records

Source: Admissions and Records

Outputs: Stored records

Destination: System

Processing:

Ensure Records are Accessible

Get records from Admissions & Records

Update records to database

Requirements:

Precondition: Cannot be Sunday

Postcondition: Records backed up to database

Side Effects: Backup failure on Sunday

Responses to Abnormal Behavior: Trying to backup on Sunday – deny access to records

Stability: Volatile

Necessity: Mandatory

Audit Ballot

Description: Used to request a recount and audit an election

Inputs: Ballots

Source: Head of Student Organizations

Outputs: Recounted total of ballots

Destination: Head of Student Organizations

Processing:

Recount is requested

Approve recount

Select election to audit

Ballots recounted

Updated results give

Requirements: Student Records

Precondition: Selected election has ended

Postcondition: Recounted election results

Side Effects: N/A

Responses to Abnormal Behavior: Election still in session

Stability: Stable

Necessity: Strongly encouraged