University of Guyana



Faculty of Natural Sciences, Department of Computer Science.

Course Name: Software Engineering I

Course Code: CSE 2101

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Semester Project Submission Four (4), System Testing

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Table of Contents

Functional Requirement #1	3
Functional Requirement #2	5

Functional Requirement #1

The system should compare the identifying information with the information given by GECOM and the government to ensure there is no fraud

Test case ID	TC_BE_1		
Test priority (Low/Medium/High):	High		
Test Title/Name:	Corroborate ID Information		
Test Summary/Description	After the user registers, the system must compare the information they gave with the Voters List and Voter Information provided by GECOM to decide whether or not the User is a valid voter.		
Pre-conditions	 Software must already have GECOM database with voters ID running without any issues Voters should be able to upload a clear picture of their ID. 		
Dependencies	 Voter's list database should be working without issues or bugs. Function to accept the user information is working and free of bugs. Function to compare the users' ID information to the ID in GECOM's Voters database to check eligibility must be ready and free of bugs or issues before testing. Function to check if a voter already has an account should be functioning properly. 		
Test Steps	 The user must input their personal information and a scan of their ID. The system must access the Voters List previously provided by GECOM. Using the provided first, middle and last names, addresses, occupations and ID numbers. 		

- 4. If the voter is present on the list, the system will flag that voter's account as such.
- 5. Otherwise, the system will flag the user as absent.
- 6. The flagged accounts are set aside for verification by the IT Administrator

Test Data

	OFFICIAL LIST OF ELECTORS					
District 1 Division Number: 111111 Division Name: BARAMA HEAD/MATARKAI						
No.	Surname	First Name	Middle Name	Address	Occupation	ID Number
1	ABBENSETTS	TIMOTHY	OSCAR	BARAMITA	MINER	157304610
2	ALANZO	ALLAN		CENTRAL BARAMITA	FARMER	130162652
				BARAMITA		
3	ALANZO	AMELIA		BARAMITA		151427089
4	ALANZO	AMELIA		BARAMITA		147029982
5	ALANZO	AUSTIN		BARAMITA	FARMER	161399368
6	ALANZO	BREANNIE		BARAMITA		159952031
7	ALANZO	CARLTON		LAST RESORT BARAMITA		167457115
8	ALANZO	CAROLYN		ARANKA BARAMITA	FARMER	169193027
9	ALANZO	CINDY		LAST RESORT BARAMITA		166027044
10	ALANZO	CLIVE		BARAMITA	FARMER	159945726
11	ALANZO	DAWN		LAST RESORT BARAMITA		167005289
12	ALANZO	DORIS	JAMES	BARAMITA	-	157324495
13	ALANZO	EDGINA		ARANKA BARAMITA		169206704
14	ALANZO	ELENE		BARAMITA		166446375
15	ALANZO	GARREN		BARAMITA	MINER	166034125
16	ALANZO	INEZ		CENTRAL BARAMITA	HOUSEWIFE	130162555
				BARAMITA		
17	ALANZO	IRIS		CENTRAL BARAMITA	FARMER	130164495
				BARAMITA		

Image 1: Snippet of the 2020 Voters List

Name	Jane1 Doe2
Age	146
Gender	Goose
Height	1094cm
Nationality	Atlantean
National Identification Number	0000000000

Table 2: Voter Information provided during registration



Image 2: Scan of ID card provided by User.

Expected Results

When a user has uploaded their ID information, the system will compare it to the voters list from the database used by GECOM.

- ❖ Providing that the voter is of age, hasn't already registered, or isn't deceased(any form of fraud), the system will register them and give them access to the dashboard to vote/view results. (user will receive a welcome to system message)
- ❖ If the voter has already registered, is deceased and someone tried to impersonate the deceased, or is not of age, the voter is of age, hasn't already registered, or isn't deceased(any form of fraud) (user will be given a warning message displaying that they are denied access and the reason for that)

Post Condition

The system should display a loading screen that tells the user that their ID is being verified. If verified and is eligible the voter will have access to the system else they will be reviewed by IT administrator and be given a confirmation of status.

Functional Requirement #2

The system should deny access to anyone who doesn't meet the voting criteria e.g under 18, has voted already, is not on the voters' list, or insufficient ID proof.

Test case ID	TC_IU_2	
Test priority (Low/Medium/High):	High	
Test Title/Name:	Deny Access to Invalid User	
Test Summary/Description	After deciding that the user is an invalid voter, the system must deny access to that user.	
Pre-conditions	 The system should be able to successfully accept user input into the respective registration fields. The system should be able to allow users to successfully cast a vote. 	
Dependencies	 System must have access to the voters list on GECOM's database which should be working without any issues or bugs. Function to compare user ID to ID in the GECOM voter's database to check eligibility must be ready and free of bugs or issues before testing. The system must be able to confirm votes casted and afterwards add the voters to a section of the database that contains persons who have already voted. (This serves to prevent double voting.) 	

Test Steps

- 1. Information pertaining to the user's personal information is entered into the appropriate registration fields.
- 2. Information that indicates the user is underage is provided into the registration fields, and the system should be able to identify and highlight this issue.
- 3. Information indicating that a person does not exist on GECOM's voters' list is entered into the registration fields, and the system should be able to compare the information with GECOM's database and flag this problem.
- 4. Information suggesting that someone that has already voted is entered into the registration fields and the system should be able to compare this information with the database consisting of persons who have already voted.
- 5. Information is entered into the registration fields along with inadequate or no ID proof and the system should be able to detect and flag this issue.
- 6. The system notifies the IT administrator of each suspicious activity listed prior, and the administrator refuses access to those invalid users.

Test Data

Name	Jane1 Doe2
Age	146
Gender	Goose
Height	1094cm
Nationality	Atlantean
National Identification Number	0000000000

Table 2: Voter Information provided during registration

