**Test Plan**

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| **Case ID** | **Test Case** | **Schedule** | **Assumption** | **Environment** | **Approach** |
| **1** | Register | **From :**  16-11-19  **To:**  18-11-19  **By:** Pranavan | System is up and running  Input validation successfully carried out by the frontend. | Windows 10  Visual Studio 2019  SQL Server 2019  Internet Information Services  Google Chrome  Postman | Blackbox Testing |
| **2** | Login |
| **3** | Logout |
| **4** | Add User Role |
| **5** | Update User Role |
| **6** | Delete User Role |
| **7** | Get User Roles |
| **8** | Add New District |
| **9** | Update District |
| **10** | Delete District |
| **11** | Get Districts |
| **12** | Add New City |
| **13** | Update City |
| **14** | Delete City |
| **15** | Get Cities |
| **16** | Add New Centre |
| **17** | Update Centre |
| **18** | Delete Centre |
| **19** | Get Centres |
| **20** | Add New Party |
| **21** | Update Party |
| **22** | Delete Party |
| **23** | Get Parties |
| **24** | Add New Candidate |
| **25** | Update Candidate |
| **26** | Delete Candidate |
| **27** | Get Candidates |
| **28** | Add New Elector |
| **29** | Update Elector |
| **30** | Delete Elector |
| **31** | Get Electors |
| **32** | Add New Ballot |
| **33** | Delete Ballot |
| **34** | Get Ballot |
| **35** | Cast Vote |
| **36** | Tally Votes |
| **37** | Consolidate Votes |
| **38** | Get Action Log |

**Test Cases**

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| --- | --- |
| **Test Case Name** | Register |
| **Test Case ID** | 1 |
| **Test Date** | 16/11/19 |
| **Purpose** | To test if Web API allows registration of new users. |
| **Step to reproduce** | Send a http post request to “api/auth/Register” passing the following sample data as JSON object in the request body. |
| **Sample Data** | {  "Firstname": "Mohamed",  "Lastname": "Azeem",  "PostalCode": "11500",  "Email": "azeem@mail.com",  "Password":"abcd1234",  "Gender": "Male",  "MobileNo": "0775814241",  "RoleID": "1",  "Location":"main"  } |
| **Exception(s)** | If the Email already exists in the database a warning message will be displayed. |
| If an invalid Location is provided an error message will be displayed. |
| **Expected Result** | User to be registered (saved to the database) and a success response to be displayed. |
| **Actual Result** | User successfully registered and a confirmation response successfully displayed. |
| **Status** | Success |
| **Screenshot(s)** |  |

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| **Test Case Name** | Login |
| **Test Case ID** | 2 |
| **Test Date** | 16/11/19 |
| **Purpose** | To test if Web API allows authorised users to login to the system. |
| **Step to reproduce** | Send a http post request to “api/auth/Login” passing the following sample data as JSON object in the request body. |
| **Sample Data** | {  "Email": "pranaone@live.com",  "Password": "abcd1234",  "Location": "colombo"  } |
| **Exception(s)** | If empty values for Email or Password is provided an error response will be displayed. |
| If an invalid Location is provided an error response will be displayed. |
| If incorrect login credentials are provided by user, the API will respond will a 401 (unauthorized) response. |
| **Expected Result** | User to be authenticated, a token to be generated and user session to be logged to the database. |
| **Actual Result** | User successfully authenticated, token successfully generated, and user session successfully logged to the database. |
| **Status** | Success |
| **Screenshot(s)** |  |

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| **Test Case Name** | Logout |
| **Test Case ID** | 3 |
| **Test Date** | 17/11/19 |
| **Purpose** | To test if Web API allows authorised users to securely log out of the system. |
| **Step to reproduce** | Send a http post request to “api/auth/Logout” passing the following sample data as JSON object in the request body. |
| **Sample Data** | {  "ID": 1,  "Email": "pranaone@live.com",  "Location": "main",  "Token": "eyJhbGciOiJIUzUxMiIsInR5cCI6IkpXVCJ9.eyJuYW1laWQiOiIwIiwidW5pcXVlX25hbWUiOiJwcmFuYW9uZUBsaXZlLmNvbSIsInJvbGUiOiIxIiwibmJmIjoxNTczOTc0NDQwLCJleHAiOjE1NzQwNjA4NDAsImlhdCI6MTU3Mzk3NDQ0MH0.BEIvR3WRHBoONNlGrwjZJpbg6xg16CrWcpTzJoF0uw3YEK\_PR3M2N2DWl3O9bKH9iqWMqxq43\_B\_e6DMQUdE\_w"  } |
| **Exception(s)** | If invalid ID is provided an error response will be displayed. |
| If an invalid Location is provided an error response will be displayed. |
| **Expected Result** | User to be logged out of the system and log out date and time to be recorded in the system. |
| **Actual Result** | User successfully logged out of the system and log out date and time successfully recorded in the system. |
| **Status** | Success |
| **Screenshot(s)** |  |

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| **Test Case Name** | Add User Role |
| **Test Case ID** | 4 |
| **Test Date** | 16/11/19 |
| **Purpose** | To test if Web API allows authorised users to add new roles to the system. |
| **Step to reproduce** | Send a http post request to “api/role/AddUserRole” passing the following sample data as JSON object in the request body, along with bearer token. |
| **Sample Data** | {  "Name": "Staff3",  "Location": "colombo",  "Token": "eyJhbGciOiJIUzUxMiIsInR5cCI6IkpXVCJ9.eyJuYW1laWQiOiIwIiwidW5pcXVlX25hbWUiOiJwcmFuYW9uZUBsaXZlLmNvbSIsInJvbGUiOiIxIiwibmJmIjoxNTczNTM0NzkwLCJleHAiOjE1NzM2MjExOTAsImlhdCI6MTU3MzUzNDc5MH0.h\_9WPMqpf0WBqBm3BH-hJu\_F6vMfpl5RZe89193ty9koEYqK5gybvMj1IYAl4QWDOvV8sHZZoOjkzUp8y12b0g",  "Email": "pranaone@live.com",  "UserID": 1  } |
| **Exception(s)** | If an incorrect UserID, Email and Token is provided an unauthorized error response will be displayed. |
| If the provided token is expired, an error response will be displayed. |
| If an invalid Location is provided an error response will be displayed. |
| **Expected Result** | Role to be saved to the database and a success response to be displayed. |
| **Actual Result** | Role successfully saved to the database and success response displayed. |
| **Status** | Success |
| **Screenshot(s)** |  |

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| **Test Case Name** | Update User Role |
| **Test Case ID** | 5 |
| **Test Date** | 16/11/19 |
| **Purpose** | To test if Web API allows authorised users to update roles to the system. |
| **Step to reproduce** | Send a http post request to “api/role/UpdateUserRole” passing the following sample data as JSON object in the request body, along with bearer token. |
| **Sample Data** | {  "ID": 2,  "Name": "Staff2",  "Location": "colombo",  "Token": "eyJhbGciOiJIUzUxMiIsInR5cCI6IkpXVCJ9.eyJuYW1laWQiOiIwIiwidW5pcXVlX25hbWUiOiJwcmFuYW9uZUBsaXZlLmNvbSIsInJvbGUiOiIxIiwibmJmIjoxNTczODc1MDU0LCJleHAiOjE1NzM5NjE0NTQsImlhdCI6MTU3Mzg3NTA1NH0.84S9wg90bO24ED95AGwUpQlR3v6DbXiMpaSS1a3KzDnIk8NyD\_amBzVQsHLHt3HuLKsZLcDks9Rjl7vNPvT10A",  "Email": "pranaone@live.com",  "UserID": 1  } |
| **Exception(s)** | Same as “Add User Role” Test Case |
| **Expected Result** | Role to be updated to the database and a success response to be displayed. |
| **Actual Result** | Role successfully updated to the database and success response displayed. |
| **Status** | Success |
| **Screenshot(s)** |  |

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| **Test Case Name** | Delete User Role |
| **Test Case ID** | 6 |
| **Test Date** | 16/11/19 |
| **Purpose** | To test if Web API allows authorised users to delete user roles from the system. |
| **Step to reproduce** | Send a http post request to “api/role/DeleteUserRole” passing the following sample data as JSON object in the request body, along with bearer token. |
| **Sample Data** | {  "ID": 2,  "Name": "Staff2",  "Location": "colombo",  "Token": "eyJhbGciOiJIUzUxMiIsInR5cCI6IkpXVCJ9.eyJuYW1laWQiOiIwIiwidW5pcXVlX25hbWUiOiJwcmFuYW9uZUBsaXZlLmNvbSIsInJvbGUiOiIxIiwibmJmIjoxNTczODc1MDU0LCJleHAiOjE1NzM5NjE0NTQsImlhdCI6MTU3Mzg3NTA1NH0.84S9wg90bO24ED95AGwUpQlR3v6DbXiMpaSS1a3KzDnIk8NyD\_amBzVQsHLHt3HuLKsZLcDks9Rjl7vNPvT10A",  "Email": "pranaone@live.com",  "UserID": 1  } |
| **Exception(s)** | Same as “Add User Role” Test Case |
| **Expected Result** | Role to be deleted from the database and a success response to be displayed. |
| **Actual Result** | Role successfully deleted from the database and success response displayed. |
| **Status** | Success |
| **Screenshot(s)** |  |

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| **Test Case Name** | Get User Role |
| **Test Case ID** | 7 |
| **Test Date** | 16/11/19 |
| **Purpose** | To test if Web API allows authorised users to get the list of available roles from the system. |
| **Step to reproduce** | Send a http get request to “api/role/GetUserRoles” passing the following sample data as JSON object in the request body, along with bearer token. |
| **Sample Data** | {  "Location": "colombo",  "Token": "eyJhbGciOiJIUzUxMiIsInR5cCI6IkpXVCJ9.eyJuYW1laWQiOiIwIiwidW5pcXVlX25hbWUiOiJwcmFuYW9uZUBsaXZlLmNvbSIsInJvbGUiOiIxIiwibmJmIjoxNTczODc1MDU0LCJleHAiOjE1NzM5NjE0NTQsImlhdCI6MTU3Mzg3NTA1NH0.84S9wg90bO24ED95AGwUpQlR3v6DbXiMpaSS1a3KzDnIk8NyD\_amBzVQsHLHt3HuLKsZLcDks9Rjl7vNPvT10A",  "Email": "pranaone@live.com",  "UserID": 1  } |
| **Exception(s)** | Same as “Add User Role” Test Case |
| **Expected Result** | A list of available roles to be retrieved from database and displayed. |
| **Actual Result** | List of available roles successfully retrieved and displayed. |
| **Status** | Success |
| **Screenshot(s)** |  |

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| **Test Case Name** | Add New District |
| **Test Case ID** | 8 |
| **Test Date** | 16/11/19 |
| **Purpose** | To test if Web API allows authorised users to add new districts to the system. |
| **Step to reproduce** | Send a http post request to “api/district/AddNewDistrict” passing the following sample data as JSON object in the request body, along with bearer token. |
| **Sample Data** | {  "Name": "Jaffna",  "Location": "colombo",  "Token": "eyJhbGciOiJIUzUxMiIsInR5cCI6IkpXVCJ9.eyJuYW1laWQiOiIwIiwidW5pcXVlX25hbWUiOiJwcmFuYW9uZUBsaXZlLmNvbSIsInJvbGUiOiIxIiwibmJmIjoxNTczODc1MDU0LCJleHAiOjE1NzM5NjE0NTQsImlhdCI6MTU3Mzg3NTA1NH0.84S9wg90bO24ED95AGwUpQlR3v6DbXiMpaSS1a3KzDnIk8NyD\_amBzVQsHLHt3HuLKsZLcDks9Rjl7vNPvT10A",  "Email": "pranaone@live.com",  "UserID": 1  } |
| **Exception(s)** | If an incorrect UserID, Email and Token is provided an unauthorized error response will be displayed. |
| If the provided token is expired, an error response will be displayed. |
| If an invalid Location is provided an error response will be displayed. |
| If District Name already exists in the database an error response will be displayed. |
| **Expected Result** | District record to be saved to the database and a success response to be displayed. |
| **Actual Result** | District record successfully saved to the database and success response displayed. |
| **Status** | Success |
| **Screenshot(s)** |  |

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| **Test Case Name** | Update District |
| **Test Case ID** | 9 |
| **Test Date** | 16/11/19 |
| **Purpose** | To test if Web API allows authorised users to add new districts to the system. |
| **Step to reproduce** | Send a http post request to “api/district/AddNewDistrict” passing the following sample data as JSON object in the request body, along with bearer token. |
| **Sample Data** | {  "ID": 8,  "Name": "Galle",  "IsAvalailable": true,  "Location": "colombo",  "Token": "eyJhbGciOiJIUzUxMiIsInR5cCI6IkpXVCJ9.eyJuYW1laWQiOiIwIiwidW5pcXVlX25hbWUiOiJwcmFuYW9uZUBsaXZlLmNvbSIsInJvbGUiOiIxIiwibmJmIjoxNTczODc1MDU0LCJleHAiOjE1NzM5NjE0NTQsImlhdCI6MTU3Mzg3NTA1NH0.84S9wg90bO24ED95AGwUpQlR3v6DbXiMpaSS1a3KzDnIk8NyD\_amBzVQsHLHt3HuLKsZLcDks9Rjl7vNPvT10A",  "Email": "pranaone@live.com",  "UserID": 1  } |
| **Exception(s)** | * If an invalid UserID, Email and Token is provided an error response will be displayed. * If the provided token is expired, an error response will be displayed. * If an invalid Location is provided an error response will be displayed.   (Similar to “Add New District” Test Case) |
| If District ID doesn’t exist in the database an error response will be displayed. |
| **Expected Result** | District record to be updated in the database and success response to be displayed. |
| **Actual Result** | District record successfully updated in the database and success response displayed. |
| **Status** | Success |
| **Screenshot(s)** |  |

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| **Test Case Name** | Delete District |
| **Test Case ID** | 10 |
| **Test Date** | 16/11/19 |
| **Purpose** | To test if Web API allows authorised users to delete districts from the system. |
| **Step to reproduce** | Send a http post request to “api/district/DeleteDistrict” passing the following sample data as JSON object in the request body, along with bearer token. |
| **Sample Data** | {  "ID": 8,  "Name": "Galle",  "Location": "colombo",  "Token": "eyJhbGciOiJIUzUxMiIsInR5cCI6IkpXVCJ9.eyJuYW1laWQiOiIwIiwidW5pcXVlX25hbWUiOiJwcmFuYW9uZUBsaXZlLmNvbSIsInJvbGUiOiIxIiwibmJmIjoxNTczODc1MDU0LCJleHAiOjE1NzM5NjE0NTQsImlhdCI6MTU3Mzg3NTA1NH0.84S9wg90bO24ED95AGwUpQlR3v6DbXiMpaSS1a3KzDnIk8NyD\_amBzVQsHLHt3HuLKsZLcDks9Rjl7vNPvT10A",  "Email": "pranaone@live.com",  "UserID": 1  } |
| **Exception(s)** | * If an invalid UserID, Email and Token is provided an error response will be displayed. * If the provided token is expired, an error response will be displayed. * If an invalid Location is provided an error response will be displayed. * If District ID doesn’t exist in the database an error response will be displayed.   (Similar to “Update District” Test Case) |
| **Expected Result** | District record to be deleted from the database and success response to be displayed. |
| **Actual Result** | District record successfully deleted from the database and success response displayed. |
| **Status** | Success |
| **Screenshot(s)** |  |

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| **Test Case Name** | Get Districts |
| **Test Case ID** | 11 |
| **Test Date** | 16/11/19 |
| **Purpose** | To test if Web API allows authorised users to retrieve list of districts from the system. |
| **Step to reproduce** | Send a http post request to “api/district/GetDistricts” passing the following sample data as JSON object in the request body, along with bearer token. |
| **Sample Data** | {  "Location": "colombo",  "Token": "eyJhbGciOiJIUzUxMiIsInR5cCI6IkpXVCJ9.eyJuYW1laWQiOiIwIiwidW5pcXVlX25hbWUiOiJwcmFuYW9uZUBsaXZlLmNvbSIsInJvbGUiOiIxIiwibmJmIjoxNTczODc1MDU0LCJleHAiOjE1NzM5NjE0NTQsImlhdCI6MTU3Mzg3NTA1NH0.84S9wg90bO24ED95AGwUpQlR3v6DbXiMpaSS1a3KzDnIk8NyD\_amBzVQsHLHt3HuLKsZLcDks9Rjl7vNPvT10A",  "Email": "pranaone@live.com",  "UserID": 1  } |
| **Exception(s)** | * If an invalid UserID, Email and Token is provided an error response will be displayed. * If the provided token is expired, an error response will be displayed. * If an invalid Location is provided an error response will be displayed.   (Similar to “Update District” Test Case) |
| **Expected Result** | A list of available districts to be retrieved from the database and to be displayed. |
| **Actual Result** | A list of available districts successfully retrieved from the database and displayed. |
| **Status** | Success |
| **Screenshot(s)** |  |

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| **Test Case Name** | Add New City |
| **Test Case ID** | 12 |
| **Test Date** | 16/11/19 |
| **Purpose** | To test if Web API allows authorised users to add new city records to the system. |
| **Step to reproduce** | Send a http post request to “api/city/AddNewCity” passing the following sample data as JSON object in the request body, along with bearer token. |
| **Sample Data** | {  "Name": "Minwangoda",  "DistrictID": 1,  "Location": "colombo",  "Token": "eyJhbGciOiJIUzUxMiIsInR5cCI6IkpXVCJ9.eyJuYW1laWQiOiIwIiwidW5pcXVlX25hbWUiOiJwcmFuYW9uZUBsaXZlLmNvbSIsInJvbGUiOiIxIiwibmJmIjoxNTczODc1MDU0LCJleHAiOjE1NzM5NjE0NTQsImlhdCI6MTU3Mzg3NTA1NH0.84S9wg90bO24ED95AGwUpQlR3v6DbXiMpaSS1a3KzDnIk8NyD\_amBzVQsHLHt3HuLKsZLcDks9Rjl7vNPvT10A",  "Email": "pranaone@live.com",  "UserID": 1  } |
| **Exception(s)** | If an invalid UserID, Email and Token is provided an error response will be displayed. |
| If the provided token is expired, an error response will be displayed. |
| If an invalid Location is provided an error response will be displayed. |
| If city Name already exists in the database an error response will be displayed. |
| **Expected Result** | City record to be saved to the database and success response to be displayed. |
| **Actual Result** | City record successfully saved to the database and success response displayed. |
| **Status** | Success |
| **Screenshot(s)** |  |

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| **Test Case Name** | Update City |
| **Test Case ID** | 13 |
| **Test Date** | 16/11/19 |
| **Purpose** | To test if Web API allows authorised users to update city record in the system. |
| **Step to reproduce** | Send a http post request to “api/city/UpdateCity” passing the following sample data as JSON object in the request body, along with bearer token. |
| **Sample Data** | {  "ID": 3,  "Name": "Ja Ela",  "DistrictID": 1,  "Location": "colombo",  "Token": "eyJhbGciOiJIUzUxMiIsInR5cCI6IkpXVCJ9.eyJuYW1laWQiOiIwIiwidW5pcXVlX25hbWUiOiJwcmFuYW9uZUBsaXZlLmNvbSIsInJvbGUiOiIxIiwibmJmIjoxNTczODc1MDU0LCJleHAiOjE1NzM5NjE0NTQsImlhdCI6MTU3Mzg3NTA1NH0.84S9wg90bO24ED95AGwUpQlR3v6DbXiMpaSS1a3KzDnIk8NyD\_amBzVQsHLHt3HuLKsZLcDks9Rjl7vNPvT10A",  "Email": "pranaone@live.com",  "UserID": 1  } |
| **Exception(s)** | * If an invalid UserID, Email and Token is provided an error response will be displayed. * If the provided token is expired, an error response will be displayed. * If an invalid Location is provided an error response will be displayed.   (Similar to “Add New City” Test Case) |
| If an invalid city ID is provided an error response will be displayed. |
| **Expected Result** | City record to be updated to the database and success response to be displayed. |
| **Actual Result** | City record successfully updated to the database and success response displayed. |
| **Status** | Success |
| **Screenshot(s)** |  |

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| **Test Case Name** | Delete City |
| **Test Case ID** | 14 |
| **Test Date** | 16/11/19 |
| **Purpose** | To test if Web API allows authorised users to delete city record from the system. |
| **Step to reproduce** | Send a http post request to “api/city/DeleteCity” passing the following sample data as JSON object in the request body, along with bearer token. |
| **Sample Data** | {  "ID": 3,  "Name": "Ja Ela",  "DistrictID": 1,  "Location": "colombo",  "Token": "eyJhbGciOiJIUzUxMiIsInR5cCI6IkpXVCJ9.eyJuYW1laWQiOiIwIiwidW5pcXVlX25hbWUiOiJwcmFuYW9uZUBsaXZlLmNvbSIsInJvbGUiOiIxIiwibmJmIjoxNTczODc1MDU0LCJleHAiOjE1NzM5NjE0NTQsImlhdCI6MTU3Mzg3NTA1NH0.84S9wg90bO24ED95AGwUpQlR3v6DbXiMpaSS1a3KzDnIk8NyD\_amBzVQsHLHt3HuLKsZLcDks9Rjl7vNPvT10A",  "Email": "pranaone@live.com",  "UserID": 1  } |
| **Exception(s)** | * If an invalid UserID, Email and Token is provided an error response will be displayed. * If the provided token is expired, an error response will be displayed. * If an invalid Location is provided an error response will be displayed. * If an invalid city ID is provided an error response will be displayed.   (Similar to “Update City” Test Case) |
| **Expected Result** | City record to be deleted from the database and success response to be displayed. |
| **Actual Result** | City record successfully deleted from the database and success response displayed. |
| **Status** | Success |
| **Screenshot(s)** |  |

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| **Test Case Name** | Get Cities |
| **Test Case ID** | 15 |
| **Test Date** | 16/11/19 |
| **Purpose** | To test if Web API allows authorised users to retrieve list of cities from the system. |
| **Step to reproduce** | Send a http get request to “api/city/GetCities” passing the following sample data as JSON object in the request body, along with bearer token. |
| **Sample Data** | {  "Location": "colombo",  "Token": "eyJhbGciOiJIUzUxMiIsInR5cCI6IkpXVCJ9.eyJuYW1laWQiOiIwIiwidW5pcXVlX25hbWUiOiJwcmFuYW9uZUBsaXZlLmNvbSIsInJvbGUiOiIxIiwibmJmIjoxNTczODc1MDU0LCJleHAiOjE1NzM5NjE0NTQsImlhdCI6MTU3Mzg3NTA1NH0.84S9wg90bO24ED95AGwUpQlR3v6DbXiMpaSS1a3KzDnIk8NyD\_amBzVQsHLHt3HuLKsZLcDks9Rjl7vNPvT10A",  "Email": "pranaone@live.com",  "UserID": 1  } |
| **Exception(s)** | * If an invalid UserID, Email and Token is provided an error response will be displayed. * If the provided token is expired, an error response will be displayed. * If an invalid Location is provided an error response will be displayed.   (Similar to “Add New City” Test Case) |
| **Expected Result** | A list of available cities to be retrieved from the database and to be displayed. |
| **Actual Result** | A list of available cities successfully retrieved from the database and displayed. |
| **Status** | Success |
| **Screenshot(s)** |  |

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| **Test Case Name** | Add New Centre |
| **Test Case ID** | 16 |
| **Test Date** | 16/11/19 |
| **Purpose** | To test if Web API allows authorised users to add new centre records to the system. |
| **Step to reproduce** | Send a http post request to “api/center/AddNewCenter” passing the following sample data as JSON object in the request body, along with bearer token. |
| **Sample Data** | {  "Name": "Center 1",  "CityID": 2,  "Voters": 25,  "Location": "colombo",  "Token": "eyJhbGciOiJIUzUxMiIsInR5cCI6IkpXVCJ9.eyJuYW1laWQiOiIwIiwidW5pcXVlX25hbWUiOiJwcmFuYW9uZUBsaXZlLmNvbSIsInJvbGUiOiIxIiwibmJmIjoxNTczODc1MDU0LCJleHAiOjE1NzM5NjE0NTQsImlhdCI6MTU3Mzg3NTA1NH0.84S9wg90bO24ED95AGwUpQlR3v6DbXiMpaSS1a3KzDnIk8NyD\_amBzVQsHLHt3HuLKsZLcDks9Rjl7vNPvT10A",  "Email": "pranaone@live.com",  "UserID": 1  } |
| **Exception(s)** | * If an invalid UserID, Email and Token is provided an error response will be displayed. * If the provided token is expired, an error response will be displayed. * If an invalid Location is provided an error response will be displayed. |
| If Centre Name already exists in the database an error response will be displayed |
| **Expected Result** | Centre record to be saved to the database and success response to be displayed. |
| **Actual Result** | Centre record successfully saved to the database and success response displayed. |
| **Status** | Success |
| **Screenshot(s)** |  |

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| **Test Case Name** | Update Centre |
| **Test Case ID** | 17 |
| **Test Date** | 16/11/19 |
| **Purpose** | To test if Web API allows authorised users to update centre record in the system. |
| **Step to reproduce** | Send a http post request to “api/center/UpdateCenter” passing the following sample data as JSON object in the request body, along with bearer token. |
| **Sample Data** | {  "ID": 1,  "Name": "Center 4",  "CityID": 2,  "Voters": 25,  "Location": "colombo",  "Token": "eyJhbGciOiJIUzUxMiIsInR5cCI6IkpXVCJ9.eyJuYW1laWQiOiIwIiwidW5pcXVlX25hbWUiOiJwcmFuYW9uZUBsaXZlLmNvbSIsInJvbGUiOiIxIiwibmJmIjoxNTczODc1MDU0LCJleHAiOjE1NzM5NjE0NTQsImlhdCI6MTU3Mzg3NTA1NH0.84S9wg90bO24ED95AGwUpQlR3v6DbXiMpaSS1a3KzDnIk8NyD\_amBzVQsHLHt3HuLKsZLcDks9Rjl7vNPvT10A",  "Email": "pranaone@live.com",  "UserID": 1  } |
| **Exception(s)** | * If an invalid UserID, Email and Token is provided an error response will be displayed. * If the provided token is expired, an error response will be displayed. * If an invalid Location is provided an error response will be displayed. |
| If an invalid centre ID is provided an error response will be displayed. |
| **Expected Result** | Centre record to be updated to the database and success response to be displayed. |
| **Actual Result** | Centre record successfully updated to the database and success response displayed. |
| **Status** | Success |
| **Screenshot(s)** |  |

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| **Test Case Name** | Delete Centre |
| **Test Case ID** | 18 |
| **Test Date** | 16/11/19 |
| **Purpose** | To test if Web API allows authorised users to delete centre record from the system. |
| **Step to reproduce** | Send a http post request to “api/center/DeleteCenter” passing the following sample data as JSON object in the request body, along with bearer token. |
| **Sample Data** | {  "ID": 3,  "Location": "colombo",  "Token": "eyJhbGciOiJIUzUxMiIsInR5cCI6IkpXVCJ9.eyJuYW1laWQiOiIwIiwidW5pcXVlX25hbWUiOiJwcmFuYW9uZUBsaXZlLmNvbSIsInJvbGUiOiIxIiwibmJmIjoxNTczODc1MDU0LCJleHAiOjE1NzM5NjE0NTQsImlhdCI6MTU3Mzg3NTA1NH0.84S9wg90bO24ED95AGwUpQlR3v6DbXiMpaSS1a3KzDnIk8NyD\_amBzVQsHLHt3HuLKsZLcDks9Rjl7vNPvT10A",  "Email": "pranaone@live.com",  "UserID": 1  } |
| **Exception(s)** | * If an invalid UserID, Email and Token is provided an error response will be displayed. * If the provided token is expired, an error response will be displayed. * If an invalid Location is provided an error response will be displayed. * If an invalid centre ID is provided an error response will be displayed.   (Similar to “Update Centre” test case) |
| **Expected Result** | Centre record to be deleted from the database and success response to be displayed. |
| **Actual Result** | Centre record successfully deleted from the database and success response displayed. |
| **Status** | Success |
| **Screenshot(s)** |  |

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| **Test Case Name** | Get Centres |
| **Test Case ID** | 19 |
| **Test Date** | 16/11/19 |
| **Purpose** | To test if Web API allows authorised users to retrieve list of centres from the system. |
| **Step to reproduce** | Send a http get request to “api/center/GetCenters” passing the following sample data as JSON object in the request body, along with bearer token. |
| **Sample Data** | {  "Location": "colombo",  "Token": "eyJhbGciOiJIUzUxMiIsInR5cCI6IkpXVCJ9.eyJuYW1laWQiOiIwIiwidW5pcXVlX25hbWUiOiJwcmFuYW9uZUBsaXZlLmNvbSIsInJvbGUiOiIxIiwibmJmIjoxNTczODc1MDU0LCJleHAiOjE1NzM5NjE0NTQsImlhdCI6MTU3Mzg3NTA1NH0.84S9wg90bO24ED95AGwUpQlR3v6DbXiMpaSS1a3KzDnIk8NyD\_amBzVQsHLHt3HuLKsZLcDks9Rjl7vNPvT10A",  "Email": "pranaone@live.com",  "UserID": 1  } |
| **Exception(s)** | * If an invalid UserID, Email and Token is provided an error response will be displayed. * If the provided token is expired, an error response will be displayed. * If an invalid Location is provided an error response will be displayed.   (Similar to “Update Centre” test case) |
| **Expected Result** | A list of available centres to be retrieved from the database and to be displayed. |
| **Actual Result** | A list of available centres successfully retrieved from the database and displayed. |
| **Status** | Success |
| **Screenshot(s)** |  |

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| **Test Case Name** | Add New Party |
| **Test Case ID** | 20 |
| **Test Date** | 16/11/19 |
| **Purpose** | To test if Web API allows authorised users to add new party records to the system. |
| **Step to reproduce** | Send a http post request to “api/party/AddNewParty” passing the following sample data as JSON object in the request body, along with bearer token. |
| **Sample Data** | {  "Name": "Common Party",  "Location": "colombo",  "Token": "eyJhbGciOiJIUzUxMiIsInR5cCI6IkpXVCJ9.eyJuYW1laWQiOiIwIiwidW5pcXVlX25hbWUiOiJwcmFuYW9uZUBsaXZlLmNvbSIsInJvbGUiOiIxIiwibmJmIjoxNTczODc1MDU0LCJleHAiOjE1NzM5NjE0NTQsImlhdCI6MTU3Mzg3NTA1NH0.84S9wg90bO24ED95AGwUpQlR3v6DbXiMpaSS1a3KzDnIk8NyD\_amBzVQsHLHt3HuLKsZLcDks9Rjl7vNPvT10A",  "Email": "pranaone@live.com",  "UserID": 1  } |
| **Exception(s)** | * If an invalid UserID, Email and Token is provided an error response will be displayed. * If the provided token is expired, an error response will be displayed. * If an invalid Location is provided an error response will be displayed. |
| If party Name already exists in the database an error response will be displayed. |
| **Expected Result** | Party record to be saved to the database and success response to be displayed. |
| **Actual Result** | Party record successfully saved to the database and success response displayed. |
| **Status** | Success |
| **Screenshot(s)** |  |

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| **Test Case Name** | Update Party |
| **Test Case ID** | 21 |
| **Test Date** | 16/11/19 |
| **Purpose** | To test if Web API allows authorised users to update party record in the system. |
| **Step to reproduce** | Send a http post request to “api/party/UpdateParty” passing the following sample data as JSON object in the request body, along with bearer token. |
| **Sample Data** | {  "ID": 5,  "Name": "Party 5",  "Location": "colombo",  "Token": "eyJhbGciOiJIUzUxMiIsInR5cCI6IkpXVCJ9.eyJuYW1laWQiOiIwIiwidW5pcXVlX25hbWUiOiJwcmFuYW9uZUBsaXZlLmNvbSIsInJvbGUiOiIxIiwibmJmIjoxNTczODc1MDU0LCJleHAiOjE1NzM5NjE0NTQsImlhdCI6MTU3Mzg3NTA1NH0.84S9wg90bO24ED95AGwUpQlR3v6DbXiMpaSS1a3KzDnIk8NyD\_amBzVQsHLHt3HuLKsZLcDks9Rjl7vNPvT10A",  "Email": "pranaone@live.com",  "UserID": 1  } |
| **Exception(s)** | * If an invalid UserID, Email and Token is provided an error response will be displayed. * If the provided token is expired, an error response will be displayed. * If an invalid Location is provided an error response will be displayed. |
| If an invalid party ID is provided an error response will be displayed. |
| **Expected Result** | Party record to be updated to the database and success response to be displayed. |
| **Actual Result** | Party record successfully updated to the database and success response displayed. |
| **Status** | Success |
| **Screenshot(s)** |  |

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| **Test Case Name** | Delete Party |
| **Test Case ID** | 22 |
| **Test Date** | 16/11/19 |
| **Purpose** | To test if Web API allows authorised users to delete party record from the system. |
| **Step to reproduce** | Send a http post request to “api/party/DeleteParty” passing the following sample data as JSON object in the request body, along with bearer token. |
| **Sample Data** | {  "ID": 5,  "Name": "Party 5",  "Location": "colombo",  "Token": "eyJhbGciOiJIUzUxMiIsInR5cCI6IkpXVCJ9.eyJuYW1laWQiOiIwIiwidW5pcXVlX25hbWUiOiJwcmFuYW9uZUBsaXZlLmNvbSIsInJvbGUiOiIxIiwibmJmIjoxNTczODc1MDU0LCJleHAiOjE1NzM5NjE0NTQsImlhdCI6MTU3Mzg3NTA1NH0.84S9wg90bO24ED95AGwUpQlR3v6DbXiMpaSS1a3KzDnIk8NyD\_amBzVQsHLHt3HuLKsZLcDks9Rjl7vNPvT10A",  "Email": "pranaone@live.com",  "UserID": 1  } |
| **Exception(s)** | * If an invalid UserID, Email and Token is provided an error response will be displayed. * If the provided token is expired, an error response will be displayed. * If an invalid Location is provided an error response will be displayed. * If an invalid party ID is provided an error response will be displayed.     (Similar to “Update Party” Test Case) |
| **Expected Result** | Party record to be deleted from the database and success response to be displayed. |
| **Actual Result** | Party record successfully deleted from the database and success response displayed. |
| **Status** | Success |
| **Screenshot(s)** |  |

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| **Test Case Name** | Get Parties |
| **Test Case ID** | 23 |
| **Test Date** | 16/11/19 |
| **Purpose** | To test if Web API allows authorised users to retrieve list of parties from the system. |
| **Step to reproduce** | Send a http get request to “api/party/GetParties” passing the following sample data as JSON object in the request body, along with bearer token. |
| **Sample Data** | {  "Location": "colombo",  "Token": "eyJhbGciOiJIUzUxMiIsInR5cCI6IkpXVCJ9.eyJuYW1laWQiOiIwIiwidW5pcXVlX25hbWUiOiJwcmFuYW9uZUBsaXZlLmNvbSIsInJvbGUiOiIxIiwibmJmIjoxNTczODc1MDU0LCJleHAiOjE1NzM5NjE0NTQsImlhdCI6MTU3Mzg3NTA1NH0.84S9wg90bO24ED95AGwUpQlR3v6DbXiMpaSS1a3KzDnIk8NyD\_amBzVQsHLHt3HuLKsZLcDks9Rjl7vNPvT10A",  "Email": "pranaone@live.com",  "UserID": 1  } |
| **Exception(s)** | * If an invalid UserID, Email and Token is provided an error response will be displayed. * If the provided token is expired, an error response will be displayed. * If an invalid Location is provided an error response will be displayed. |
| **Expected Result** | A list of available parties to be retrieved from the database and to be displayed. |
| **Actual Result** | A list of available parties successfully retrieved from the database and displayed. |
| **Status** | Success |
| **Screenshot(s)** |  |

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| **Test Case Name** | Add New Candidate |
| **Test Case ID** | 24 |
| **Test Date** | 16/11/19 |
| **Purpose** | To test if Web API allows authorised users to add new candidate records to the system. |
| **Step to reproduce** | Send a http post request to “api/candidate/AddNewCandidate” passing the following sample data as JSON object in the request body, along with bearer token. |
| **Sample Data** | {  "Name": "Candidate 2",  "PartyID": 1,  "DistrictID": 1,  "Location": "colombo",  "Token": "eyJhbGciOiJIUzUxMiIsInR5cCI6IkpXVCJ9.eyJuYW1laWQiOiIwIiwidW5pcXVlX25hbWUiOiJwcmFuYW9uZUBsaXZlLmNvbSIsInJvbGUiOiIxIiwibmJmIjoxNTczODc1MDU0LCJleHAiOjE1NzM5NjE0NTQsImlhdCI6MTU3Mzg3NTA1NH0.84S9wg90bO24ED95AGwUpQlR3v6DbXiMpaSS1a3KzDnIk8NyD\_amBzVQsHLHt3HuLKsZLcDks9Rjl7vNPvT10A",  "Email": "pranaone@live.com",  "UserID": 1  } |
| **Exception(s)** | * If an invalid UserID, Email and Token is provided an error response will be displayed. * If the provided token is expired, an error response will be displayed. * If an invalid Location is provided an error response will be displayed. |
| If candidate Name already exists in the database an error response will be displayed. |
| **Expected Result** | Candidate record to be saved to the database and success response to be displayed. |
| **Actual Result** | Candidate record successfully saved to the database and success response displayed. |
| **Status** | Success |
| **Screenshot(s)** |  |

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| **Test Case Name** | Update Candidate |
| **Test Case ID** | 25 |
| **Test Date** | 16/11/19 |
| **Purpose** | To test if Web API allows authorised users to update candidate records in the system. |
| **Step to reproduce** | Send a http post request to “api/candidate/UpdateCandidate” passing the following sample data as JSON object in the request body, along with bearer token. |
| **Sample Data** | {  "ID": 4,  "Name": "Candidate 4",  "PartyID": 1,  "DistrictID": 1,  "Votes": 10,  "Location": "colombo",  "Token": "eyJhbGciOiJIUzUxMiIsInR5cCI6IkpXVCJ9.eyJuYW1laWQiOiIwIiwidW5pcXVlX25hbWUiOiJwcmFuYW9uZUBsaXZlLmNvbSIsInJvbGUiOiIxIiwibmJmIjoxNTczODc1MDU0LCJleHAiOjE1NzM5NjE0NTQsImlhdCI6MTU3Mzg3NTA1NH0.84S9wg90bO24ED95AGwUpQlR3v6DbXiMpaSS1a3KzDnIk8NyD\_amBzVQsHLHt3HuLKsZLcDks9Rjl7vNPvT10A",  "Email": "pranaone@live.com",  "UserID": 1  } |
| **Exception(s)** | * If an invalid UserID, Email and Token is provided an error response will be displayed. * If the provided token is expired, an error response will be displayed. * If an invalid Location is provided an error response will be displayed. |
| If an invalid candidate ID is provided an error response will be displayed. |
| **Expected Result** | Candidate record to be updated in the database and success response to be displayed. |
| **Actual Result** | Candidate record successfully updated in the database and success response displayed. |
| **Status** | Success |
| **Screenshot(s)** |  |

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| **Test Case Name** | Delete Candidate |
| **Test Case ID** | 26 |
| **Test Date** | 16/11/19 |
| **Purpose** | To test if Web API allows authorised users to delete candidate records from the system. |
| **Step to reproduce** | Send a http post request to “api/candidate/DeleteCandidate” passing the following sample data as JSON object in the request body, along with bearer token. |
| **Sample Data** | {  "ID": 4,  "Name": "Candidate 4",  "Location": "colombo",  "Token": "eyJhbGciOiJIUzUxMiIsInR5cCI6IkpXVCJ9.eyJuYW1laWQiOiIwIiwidW5pcXVlX25hbWUiOiJwcmFuYW9uZUBsaXZlLmNvbSIsInJvbGUiOiIxIiwibmJmIjoxNTczODc1MDU0LCJleHAiOjE1NzM5NjE0NTQsImlhdCI6MTU3Mzg3NTA1NH0.84S9wg90bO24ED95AGwUpQlR3v6DbXiMpaSS1a3KzDnIk8NyD\_amBzVQsHLHt3HuLKsZLcDks9Rjl7vNPvT10A",  "Email": "pranaone@live.com",  "UserID": 1  } |
| **Exception(s)** | * If an invalid UserID, Email and Token is provided an error response will be displayed. * If the provided token is expired, an error response will be displayed. * If an invalid Location is provided an error response will be displayed. * If an invalid candidate ID is provided an error response will be displayed.   (Similar to “Update Candidate” Test Case) |
| **Expected Result** | Candidate record to be deleted from in the database and success response to be displayed. |
| **Actual Result** | Candidate record successfully deleted from the database and success response displayed. |
| **Status** | Success |
| **Screenshot(s)** |  |

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| **Test Case Name** | Get Candidates |
| **Test Case ID** | 27 |
| **Test Date** | 16/11/19 |
| **Purpose** | To test if Web API allows authorised users to retrieve candidate records from the system. |
| **Step to reproduce** | Send a http get request to “api/candidate/GetCandidates” passing the following sample data as JSON object in the request body, along with bearer token. |
| **Sample Data** | {  "Location": "colombo",  "Token": "eyJhbGciOiJIUzUxMiIsInR5cCI6IkpXVCJ9.eyJuYW1laWQiOiIwIiwidW5pcXVlX25hbWUiOiJwcmFuYW9uZUBsaXZlLmNvbSIsInJvbGUiOiIxIiwibmJmIjoxNTczODc1MDU0LCJleHAiOjE1NzM5NjE0NTQsImlhdCI6MTU3Mzg3NTA1NH0.84S9wg90bO24ED95AGwUpQlR3v6DbXiMpaSS1a3KzDnIk8NyD\_amBzVQsHLHt3HuLKsZLcDks9Rjl7vNPvT10A",  "Email": "pranaone@live.com",  "UserID": 1  } |
| **Exception(s)** | * If an invalid UserID, Email and Token is provided an error response will be displayed. * If the provided token is expired, an error response will be displayed. * If an invalid Location is provided an error response will be displayed. |
| **Expected Result** | Candidate records to be retrieved from the database and to be displayed. |
| **Actual Result** | Candidate records successfully retrieved from the database and displayed. |
| **Status** | Success |
| **Screenshot(s)** |  |

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| **Test Case Name** | Add New Elector |
| **Test Case ID** | 28 |
| **Test Date** | 16/11/19 |
| **Purpose** | To test if Web API allows authorised users to add new elector records to the system. |
| **Step to reproduce** | Send a http post request to “api/elector/AddNewElector” passing the following sample data as JSON object in the request body, along with bearer token. |
| **Sample Data** | {  "Name": "Elector 3",  "NIC": "932500672V",  "DOB": "1993-06-02T10:10:35",  "Address": "Negombo",  "Contact":"0768536328",  "HasVoted": false,  "CityID": 2,  "CenterID": 1,  "Location": "colombo",  "Token": "eyJhbGciOiJIUzUxMiIsInR5cCI6IkpXVCJ9.eyJuYW1laWQiOiIwIiwidW5pcXVlX25hbWUiOiJwcmFuYW9uZUBsaXZlLmNvbSIsInJvbGUiOiIxIiwibmJmIjoxNTczODc1MDU0LCJleHAiOjE1NzM5NjE0NTQsImlhdCI6MTU3Mzg3NTA1NH0.84S9wg90bO24ED95AGwUpQlR3v6DbXiMpaSS1a3KzDnIk8NyD\_amBzVQsHLHt3HuLKsZLcDks9Rjl7vNPvT10A",  "Email": "pranaone@live.com",  "UserID": 1  } |
| **Exception(s)** | * If an invalid UserID, Email and Token is provided an error response will be displayed. * If the provided token is expired, an error response will be displayed. * If an invalid Location is provided an error response will be displayed. |
| If elector NIC already exists in the database an error response will be displayed. |
|  | If elector age is less than voting legal age (18 years), an error response will be displayed. |
| **Expected Result** | Elector record to be saved to the database and success response to be displayed. |
| **Actual Result** | Elector record successfully saved to the database and success response displayed. |
| **Status** | Success |
| **Screenshot(s)** |  |

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| **Test Case Name** | Update Elector |
| **Test Case ID** | 29 |
| **Test Date** | 16/11/19 |
| **Purpose** | To test if Web API allows authorised users to update elector records in the system. |
| **Step to reproduce** | Send a http post request to “api/elector/UpdateElector” passing the following sample data as JSON object in the request body, along with bearer token. |
| **Sample Data** | {  "ID": 17,  "Name": "Elector 4",  "NIC": "932500672V",  "DOB": "1993-06-02T10:10:35",  "Address": "Seeduwa",  "Contact":"0314928919",  "HasVoted": false,  "CityID": 2,  "CenterID": 1,  "Location": "colombo",  "Token": "eyJhbGciOiJIUzUxMiIsInR5cCI6IkpXVCJ9.eyJuYW1laWQiOiIwIiwidW5pcXVlX25hbWUiOiJwcmFuYW9uZUBsaXZlLmNvbSIsInJvbGUiOiIxIiwibmJmIjoxNTczODc1MDU0LCJleHAiOjE1NzM5NjE0NTQsImlhdCI6MTU3Mzg3NTA1NH0.84S9wg90bO24ED95AGwUpQlR3v6DbXiMpaSS1a3KzDnIk8NyD\_amBzVQsHLHt3HuLKsZLcDks9Rjl7vNPvT10A",  "Email": "pranaone@live.com",  "UserID": 1  } |
| **Exception(s)** | * If an invalid UserID, Email and Token is provided an error response will be displayed. * If the provided token is expired, an error response will be displayed. * If an invalid Location is provided an error response will be displayed. |
| If an invalid elector ID is provided an error response will be displayed |
| **Expected Result** | Elector record to be updated in the database and success response to be displayed. |
| **Actual Result** | Elector record successfully updated in the database and success response displayed. |
| **Status** | Success |
| **Screenshot(s)** |  |

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| --- | --- |
| **Test Case Name** | Delete Elector |
| **Test Case ID** | 30 |
| **Test Date** | 16/11/19 |
| **Purpose** | To test if Web API allows authorised users to delete elector records from the system. |
| **Step to reproduce** | Send a http post request to “api/elector/DeleteElector” passing the following sample data as JSON object in the request body, along with bearer token. |
| **Sample Data** | {  "ID": 17,  "Name": "Elector 4",  "NIC": "932500672V",  "Location": "colombo",  "Token": "eyJhbGciOiJIUzUxMiIsInR5cCI6IkpXVCJ9.eyJuYW1laWQiOiIwIiwidW5pcXVlX25hbWUiOiJwcmFuYW9uZUBsaXZlLmNvbSIsInJvbGUiOiIxIiwibmJmIjoxNTczODc1MDU0LCJleHAiOjE1NzM5NjE0NTQsImlhdCI6MTU3Mzg3NTA1NH0.84S9wg90bO24ED95AGwUpQlR3v6DbXiMpaSS1a3KzDnIk8NyD\_amBzVQsHLHt3HuLKsZLcDks9Rjl7vNPvT10A",  "Email": "pranaone@live.com",  "UserID": 1  } |
| **Exception(s)** | * If an invalid UserID, Email and Token is provided an error response will be displayed. * If the provided token is expired, an error response will be displayed. * If an invalid Location is provided an error response will be displayed. * If an invalid elector ID and NIC is provided an error response will be displayed.   (Similar to “Update Elector” Test Case) |
| **Expected Result** | Elector record to be deleted from the database and success response to be displayed. |
| **Actual Result** | Elector record successfully deleted from the database and success response displayed. |
| **Status** | Success |
| **Screenshot(s)** |  |

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| --- | --- |
| **Test Case Name** | Get Electors |
| **Test Case ID** | 31 |
| **Test Date** | 16/11/19 |
| **Purpose** | To test if Web API allows authorised users to retrieve elector records from the system. |
| **Step to reproduce** | Send a http get request to “api/elector/GetElectors” passing the following sample data as JSON object in the request body, along with bearer token. |
| **Sample Data** | {  "Location": "colombo",  "Token": "eyJhbGciOiJIUzUxMiIsInR5cCI6IkpXVCJ9.eyJuYW1laWQiOiIwIiwidW5pcXVlX25hbWUiOiJwcmFuYW9uZUBsaXZlLmNvbSIsInJvbGUiOiIxIiwibmJmIjoxNTczODc1MDU0LCJleHAiOjE1NzM5NjE0NTQsImlhdCI6MTU3Mzg3NTA1NH0.84S9wg90bO24ED95AGwUpQlR3v6DbXiMpaSS1a3KzDnIk8NyD\_amBzVQsHLHt3HuLKsZLcDks9Rjl7vNPvT10A",  "Email": "pranaone@live.com",  "UserID": 1  } |
| **Exception(s)** | * If an invalid UserID, Email and Token is provided an error response will be displayed. * If the provided token is expired, an error response will be displayed. * If an invalid Location is provided an error response will be displayed. |
| **Expected Result** | Elector records to be retrieved from the database and to be displayed. |
| **Actual Result** | Elector records successfully retrieved from the database and displayed. |
| **Status** | Success |
| **Screenshot(s)** |  |

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| **Test Case Name** | Add New Ballot |
| **Test Case ID** | 32 |
| **Test Date** | 16/11/19 |
| **Purpose** | To test if Web API allows authorised users to add new ballot records to the system. |
| **Step to reproduce** | Send a http post request to “api/ballot/AddNewBallot” passing the following sample data as JSON object in the request body, along with bearer token. |
| **Sample Data** | {  "CandidateID": 6,  "DistrictID": 1,  "CenterID": 1,  "Location": "colombo",  "Token": "eyJhbGciOiJIUzUxMiIsInR5cCI6IkpXVCJ9.eyJuYW1laWQiOiIwIiwidW5pcXVlX25hbWUiOiJwcmFuYW9uZUBsaXZlLmNvbSIsInJvbGUiOiIxIiwibmJmIjoxNTczODc1MDU0LCJleHAiOjE1NzM5NjE0NTQsImlhdCI6MTU3Mzg3NTA1NH0.84S9wg90bO24ED95AGwUpQlR3v6DbXiMpaSS1a3KzDnIk8NyD\_amBzVQsHLHt3HuLKsZLcDks9Rjl7vNPvT10A",  "Email": "pranaone@live.com",  "UserID": 1  } |
| **Exception(s)** | * If an invalid UserID, Email and Token is provided an error response will be displayed. * If the provided token is expired, an error response will be displayed. * If an invalid Location is provided an error response will be displayed. |
| **Expected Result** | Ballot record to be saved to the database and success response to be displayed. |
| **Actual Result** | Ballot record successfully saved to the database and success response displayed. |
| **Status** | Success |
| **Screenshot(s)** |  |

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| **Test Case Name** | Delete Ballot |
| **Test Case ID** | 33 |
| **Test Date** | 16/11/19 |
| **Purpose** | To test if Web API allows authorised users to remove ballot records from the system. |
| **Step to reproduce** | Send a http post request to “api/ballot/DeleteBallot” passing the following sample data as JSON object in the request body, along with bearer token. |
| **Sample Data** | {  "ID":12,  "CandidateID": 6,  "DistrictID": 1,  "CenterID": 1,  "Location": "colombo",  "Token": "eyJhbGciOiJIUzUxMiIsInR5cCI6IkpXVCJ9.eyJuYW1laWQiOiIwIiwidW5pcXVlX25hbWUiOiJwcmFuYW9uZUBsaXZlLmNvbSIsInJvbGUiOiIxIiwibmJmIjoxNTczODc1MDU0LCJleHAiOjE1NzM5NjE0NTQsImlhdCI6MTU3Mzg3NTA1NH0.84S9wg90bO24ED95AGwUpQlR3v6DbXiMpaSS1a3KzDnIk8NyD\_amBzVQsHLHt3HuLKsZLcDks9Rjl7vNPvT10A",  "Email": "pranaone@live.com",  "UserID": 1  } |
| **Exception(s)** | * If an invalid UserID, Email and Token is provided an error response will be displayed. * If the provided token is expired, an error response will be displayed. * If an invalid Location is provided an error response will be displayed. |
| If an invalid ballot ID is provided an error response will be displayed |
| **Expected Result** | Ballot record to be deleted from the database and success response to be displayed. |
| **Actual Result** | Ballot record successfully deleted from the database and success response displayed. |
| **Status** | Success |
| **Screenshot(s)** |  |

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| **Test Case Name** | Get Ballots |
| **Test Case ID** | 34 |
| **Test Date** | 16/11/19 |
| **Purpose** | To test if Web API allows authorised users to retrieve ballot records from the system. |
| **Step to reproduce** | Send a http get request to “api/ballot/GetBallots” passing the following sample data as JSON object in the request body, along with bearer token. |
| **Sample Data** | {  "Location": "colombo",  "Token": "eyJhbGciOiJIUzUxMiIsInR5cCI6IkpXVCJ9.eyJuYW1laWQiOiIwIiwidW5pcXVlX25hbWUiOiJwcmFuYW9uZUBsaXZlLmNvbSIsInJvbGUiOiIxIiwibmJmIjoxNTczODc1MDU0LCJleHAiOjE1NzM5NjE0NTQsImlhdCI6MTU3Mzg3NTA1NH0.84S9wg90bO24ED95AGwUpQlR3v6DbXiMpaSS1a3KzDnIk8NyD\_amBzVQsHLHt3HuLKsZLcDks9Rjl7vNPvT10A",  "Email": "pranaone@live.com",  "UserID": 1  } |
| **Exception(s)** | * If an invalid UserID, Email and Token is provided an error response will be displayed. * If the provided token is expired, an error response will be displayed. * If an invalid Location is provided an error response will be displayed. |
| **Expected Result** | Ballot records to be retrieved from the database and to be displayed. |
| **Actual Result** | Ballot records successfully retrieved from the database and displayed. |
| **Status** | Success |
| **Screenshot(s)** |  |

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| **Test Case Name** | Cast Vote |
| **Test Case ID** | 35 |
| **Test Date** | 16/11/19 |
| **Purpose** | To test if Web API allows authorised users to cast votes. |
| **Step to reproduce** | Send a http post request to “api/ballot/CastVote” passing the following sample data as JSON object in the request body, along with bearer token. |
| **Sample Data** | {  "ElectorID": 12,  "CandidateID": 1,  "CenterID": 1,  "DistrictID": 1,  "Location": "colombo",  "Token": "eyJhbGciOiJIUzUxMiIsInR5cCI6IkpXVCJ9.eyJuYW1laWQiOiIwIiwidW5pcXVlX25hbWUiOiJwcmFuYW9uZUBsaXZlLmNvbSIsInJvbGUiOiIxIiwibmJmIjoxNTczODc1MDU0LCJleHAiOjE1NzM5NjE0NTQsImlhdCI6MTU3Mzg3NTA1NH0.84S9wg90bO24ED95AGwUpQlR3v6DbXiMpaSS1a3KzDnIk8NyD\_amBzVQsHLHt3HuLKsZLcDks9Rjl7vNPvT10A",  "Email": "pranaone@live.com",  "UserID": 1  } |
| **Exception(s)** | * If an invalid UserID, Email and Token is provided an error response will be displayed. * If the provided token is expired, an error response will be displayed. * If an invalid Location is provided an error response will be displayed. |
| If an invalid ElectorID is provided an error response will be displayed. |
| If an invalid CandidateID is provided an error response will be displayed. |
| If the elector has already voted, an error response will be displayed. |
| **Expected Result** | Vote to be recorded in database, elector voted status to be updated and success response to be displayed. |
| **Actual Result** | Vote successfully recorded in database, elector voted status updated and success response displayed. |
| **Status** | Success |
| **Screenshot(s)** |  |

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| **Test Case Name** | Tally Votes |
| **Test Case ID** | 36 |
| **Test Date** | 16/11/19 |
| **Purpose** | To test if Web API allows authorised users to the tally votes and the get the summary of the total no of votes acquired by each candidate. |
| **Step to reproduce** | Send a http get request to “api/admin/GetTotalBallotCount” passing the following sample data as JSON object in the request body, along with bearer token. |
| **Sample Data** | {  "Location": "colombo",  "Token": "eyJhbGciOiJIUzUxMiIsInR5cCI6IkpXVCJ9.eyJuYW1laWQiOiIwIiwidW5pcXVlX25hbWUiOiJwcmFuYW9uZUBsaXZlLmNvbSIsInJvbGUiOiIxIiwibmJmIjoxNTczODc1MDU0LCJleHAiOjE1NzM5NjE0NTQsImlhdCI6MTU3Mzg3NTA1NH0.84S9wg90bO24ED95AGwUpQlR3v6DbXiMpaSS1a3KzDnIk8NyD\_amBzVQsHLHt3HuLKsZLcDks9Rjl7vNPvT10A",  "Email": "pranaone@live.com",  "UserID": 1  } |
| **Exception(s)** | If an invalid UserID, Email and Token is provided an unauthorized error response will be displayed. |
| If the provided token is expired, an error response will be displayed. |
| If an invalid Location is provided an error response will be displayed. |
| **Expected Result** | Total no of votes acquired by candidates to be calculated and displayed. |
| **Actual Result** | Total no of votes acquired by candidates successfully calculated and displayed. |
| **Status** | Success |
| **Screenshot(s)** |  |

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| **Test Case Name** | Consolidate Votes |
| **Test Case ID** | 37 |
| **Test Date** | 17/11/19 |
| **Purpose** | To test if Web API allows authorised users to consolidate votes from various districts to a central database. |
| **Step to reproduce** | Send a http get request to “api/admin/ConsolidateVotes” passing the following sample data as JSON object in the request body, along with bearer token. |
| **Sample Data** | {  "Location": "colombo",  "Token": "eyJhbGciOiJIUzUxMiIsInR5cCI6IkpXVCJ9.eyJuYW1laWQiOiIwIiwidW5pcXVlX25hbWUiOiJwcmFuYW9uZUBsaXZlLmNvbSIsInJvbGUiOiIxIiwibmJmIjoxNTczODc1MDU0LCJleHAiOjE1NzM5NjE0NTQsImlhdCI6MTU3Mzg3NTA1NH0.84S9wg90bO24ED95AGwUpQlR3v6DbXiMpaSS1a3KzDnIk8NyD\_amBzVQsHLHt3HuLKsZLcDks9Rjl7vNPvT10A",  "Email": "pranaone@live.com",  "UserID": 1  } |
| **Exception(s)** | * If an invalid UserID, Email and Token is provided an error response will be displayed. * If the provided token is expired, an error response will be displayed. * If an invalid Location is provided an error response will be displayed.   (Same as “Tally Votes” Test Case) |
| **Expected Result** | Votes from all district databases to be consolidated into a central database and a success response to be displayed. |
| **Actual Result** | Votes from all district databases successfully consolidated into a central database and success response displayed. |
| **Status** | Success |
| **Screenshot(s)** |  |

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| **Test Case Name** | Get Action Log |
| **Test Case ID** | 38 |
| **Test Date** | 16/11/19 |
| **Purpose** | To test if Web API allows authorised users to view activities performed by all users of the system (for audit purposes). |
| **Step to reproduce** | Send a http get request to “api/admin/GetActionLogDetails” passing the following sample data as JSON object in the request body, along with bearer token. |
| **Sample Data** | {  "Location": "colombo",  "Token": "eyJhbGciOiJIUzUxMiIsInR5cCI6IkpXVCJ9.eyJuYW1laWQiOiIwIiwidW5pcXVlX25hbWUiOiJwcmFuYW9uZUBsaXZlLmNvbSIsInJvbGUiOiIxIiwibmJmIjoxNTczOTYyNjk1LCJleHAiOjE1NzQwNDkwOTUsImlhdCI6MTU3Mzk2MjY5NX0.6qMPl9eRJdMCwGVK2DyMYkEuNJfCvMs7xJVGVyA\_\_GryGgB-x1BCoNW311ybooYWz6NRRRfOmJA\_hNDRvB9i9A",  "Email": "pranaone@live.com",  "UserID": 1  } |
| **Exception(s)** | * If an invalid UserID, Email and Token is provided an error response will be displayed. * If the provided token is expired, an error response will be displayed. * If an invalid Location is provided an error response will be displayed.   (Same as “Tally Votes” Test Case) |
| **Expected Result** | Votes from all district databases to be consolidated into a central database and a success response to be displayed. |
| **Actual Result** | Votes from all district databases successfully consolidated into a central database and success response displayed. |
| **Status** | Success |
| **Screenshot(s)** |  |

**Test Summary**

Total number of requirements identified : 38

Total number of requirements mapped to test cases : 38

**Test Coverage** = (38/38)\*100% = 100%

Total number of defects identified = 1

Total number of test cases executed = 38

**Defect Density** = (1/38) = 0.03