U   **V**

E

1. As an elections officer, I want to be able to login to the system so that I can be authenticated and administer the elections.
    a. correct user name and password enables an EO to login into the system
    b. if either user name or password is incorrect, an error message is displayed
    c. an EO can ask for a password reset and the new password is sent to the EO's email (another US)
    d. after 10 minutes of inactivity, the EO is automatically logged out

2. As an elections officer, I want to be able to reset my password so that I can login even if I forget my password.
    a. an email is sent to EO's address with a new password

3. As an elections officer, I want to be able to logout from the system so that nobody else can use the system without first logging in.
    a. after a logout, no system functions (except for login and password reset) can be performed any longer by an EO

4. As an elections officer, I want to be able to create and update an electoral district so that voters can be subdivided according to their addresses.
    a.

     c.   if the name is not unique, an error message is displayed

8.   As an elections officer, I want to be able to create and update an issue (referendum) so that the voters can vote on it.
     a.   an issue is for an election being created (tied to an election)
     b.   the question of the issue is provided
     c.   the question of the issue is unique on the ballot
     d.   if the question is not unique, an error message is displayed

9.   As an elections officer, I want to be able to create and update a ballot so that the voters can vote on a set of elections and issues.
     a.   an open date and close date are provided
     b.   it is possible to create an election (another US)
     c.   it is possible to create an issue (another US)
     d.   it is possible to reorder the already defined elections and issues

10. As an elections officer, I want to be able to find and view an electoral district so that an existing electoral district can be verified.
     a.   an electoral district's full or partial name is provided and a list of matching electoral districts is displayed
     b.   when an empty name is provided, a full list of electoral districts is displayed
     c.   if no electoral districts matching the search are found a suitable message is displayed
     d.   the name of a selected electoral district is displayed

11. As an elections officer, I want to be able to find and view an election so that an existing election can be verified.
     a.   the full or partial name of the office for the election is provided and a list of matching elections is displayed
     b.   when an empty name is provided, a full list of elections is displayed
     c.   if no elections matching the search are found a suitable message is displayed
     d.   the complete data for a selected election is displayed

12. As an elections officer, I want to be able to find and view election candidates so that the list of candidates can be verified.
     a.   the full or partial name of the candidate is provided and a list of matching candidates is displayed
     b.   when an empty name is provided, a full list of candidates is displayed
     c.   if no candidates matching the search are found a suitable message is displayed
     d.   the name, election office, the political party (if election is partisan), and an electoral district for a selected candidate is displayed

13. As an elections officer, I want to be able to find and view a political party so that the existing political parties can be verified.
     a.   an political party's full or partial name is provided and a list of matching electoral districts is displayed
     b.   when an empty name is provided, a full list of political parties is displayed
     c.   if no political parties matching the search are found a suitable message is displayed

d. the name of a selected political party is displayed

14. As an elections officer, I want to be able to find and view an issue so that the existing issues can be verified.
    a. the full or part of the question of the issue is provided and a list of matching issues is displayed
    b. when an empty question is provided, a full list of issues is displayed
    c. if no issues matching the search are found a suitable message is displayed
    d. the full question and an electoral district for a selected issue is displayed

15. As an elections officer, I want to be able to find and view a ballot so that the existing ballots can be verified.
    a. a ballot is selected from a full list of ballots
    b. if no ballots are found, a suitable message is displayed
    c. the full list of issues and elections, including candidates, electoral districts and political parties, start and end dates for a selected ballot is displayed

16. As an elections officer, I want to be able to delete an electoral district so that an existing district can be removed, if needed.
    a. an electoral district has been located and is displayed
    b. an EO must confirm deletion before an actual removal of an electoral district takes place
    c. if elections or issues for the electoral district exist, removal is not performed and an error message is displayed
    d. an undo, if performed immediately after a deletion, can restore a deleted electoral district

17. As an elections officer, I want to be able to delete an election so that an existing election can be removed from a ballot, if needed.
    a. an electoral district has been located and is displayed
    b. an EO must confirm deletion before an actual removal of an electoral district takes place
    c. if candidates for the election exist, removal is not performed and an error message is displayed
    d. an undo, if performed immediately after a deletion, can restore a deleted election

18. As an elections officer, I want to be able to delete an election candidate so that the existing candidate can be can be removed, if needed.
    a. an election, including its candidates, has been located and is displayed
    b. an EO must confirm deletion before an actual removal of an election candidate takes place
    c. an undo, if performed immediately after a deletion, can restore a deleted election candidate

19. As an elections officer, I want to be able to delete a political party so that an existing political party can be removed, if needed.
    a. a political party has been located and is displayed

b. an EO must confirm deletion before an actual removal of a political party takes place
c. if candidates belonging to the political party exist, removal is not performed and an error message is displayed
d. an undo, if performed immediately after a deletion, can restore a deleted a political party

20. As an elections officer, I want to be able to delete an issue so that an existing issue can be eliminated from a ballot, if needed.
    a. an issue has been located and is displayed
    b. an EO must confirm deletion before an actual removal of an issue takes place
    c. an undo, if performed immediately after a deletion, can restore a deleted issue

21. As an elections officer, I want to be able to delete a ballot so that an existing ballot can be removed, if needed.
    a. a ballot has been located and is displayed
    b. an EO must confirm deletion before an actual removal of a ballot takes place
    c. if confirmed, a deletion of a ballot removes all issues and elections, including candidates included on the ballot
    d. an undo, if performed immediately after a deletion, can restore a deleted ballot

22. As an elections officer, I want to be able to open the system for voting so that the voters can start voting.
    a. at least one ballot exists
    b. the current date is the same as the specified start date on the ballot
    c. if the current date is not the same, a suitable error message is displayed

23. As an elections officer, I want all voters to be able to vote just once so that the election is conducted out properly.
    a. a vote cast by each participating voter must be marked and recorded and any additional voting is disallowed

24. As an elections officer, I want all voters to be able to vote only on elections and issues in their districts so that the voting is conducted properly.
    a. a vote cast by each participating voter on an issue or election must be consistent with the voter's electoral district assignment

25. As an elections officer, I want to be able to close the system for voting so that no more voters can vote.
    a. the current date is the same as the specified end date on the ballot
    b. if the current date is not the same, a suitable error message is displayed
    c. after a system is closed for voting, any votes are disallowed

26. As an elections officer, I want to be able to validate the election results so that they can be approved.
    a. all votes cast by each participating voter on an issue or election is be consistent with the voter's electoral district assignment
    b. no multiple votes by a voter exist

c. the dates of all votes cast are within start and end date of the ballot for which they were cast

27. As an elections officer, I want to be able to publish the election results so the general public can find out the results of the election.
    a. the election has been validated

28. As an elections officer, I want to be able to modify my profile so that it can be kept up-to-date.
    a. new values for any or all data items (first and last name, address, email, and password) can be provided and must be in appropriate formats
    b. all attributes except for the user name (login name) can be changed

V

29. As a voter, I want to be able to register with the system so that I can vote in elections.
    a. all required data items for a voter (first and last name, address, email, user name and password) are provided and are in appropriate formats and the voter selected an electoral district to which the voter belongs
    b. if the selected user name is not unique, an error message is displayed
    c. if registration is successful, the voter is given a voter identifier

30. As a voter, I want to be able to login to the system so that I can be authenticated and use the system.
    a. correct user name and password enables a voter to login into the system
    b. if either user name or password is incorrect, an error message is displayed
    c. a voter can ask for a password reset and the new password is sent to the voter's email (another US)
    d. after 10 minutes of inactivity, the voter is automatically logged out

31. As a voter, I want to be able to reset my password so that I can login if I forget my password.
    a. an email is sent to the voter's address with a new password

32. As a voter, I want to be able to logout from the system so that nobody else can use the system without first logging in.
    a. after a logout, no system functions (except for register, login and password reset) can be performed any longer by a voter

33. As a voter, I want to be able to view and modify my voter profile so that I can keep it up-to-date.
    a. new values for any or all data items (first and last name, address, email, password and an an electoral district) can be provided and must be in appropriate formats
    b. all attributes except for the user name (login name) and voter id can be changed

34. As a voter, I want to be able to view a ballot so that I can prepare how I want to vote when election starts.
    a. a ballot for consistent with the voter's electoral district is displayed, including all issues and elections with their candidates

35. As a voter, I want to be able to vote on some or all of the items included on a ballot so that I can participate in the governance process.
    a. a ballot for consistent with the voter's electoral district is displayed, including all issues and elections with their candidates
    b. the voter can vote on any or all of the ballot items
    c. all votes are recorded, but the identity of the voter is not recorded

36. As a voter, I want to be able to drop my registration so that I can register as a voter elsewhere, if I move.
    a. the voter cannot login afterwards

37. As a voter, I want to be able to see the election results so that I can learn who won the elections.
    a. all ballots for all electoral districts are displayed, including the results for all elections and issues
    b. election results are ordered by the number of votes per each candidate
    c. the winner of each election is clearly indicated
    d. the approval/disapproval of each issue is clearly indicated

E

38. As an elections officer, I want to the system to be implemented in C++ or Java so that is maintainable.

39. As an elections officer, I want to the user interface to be easy-to-use so that an EO and voters can use the system effectively.

40. As an elections officer, I want multiple voters to be able to register and vote all at the same time, so that the system does not impede the electoral process.

41. As an elections officer, I want the system to use the MySQL RDBMS so that the system's cost is low.

42. As an elections officer, I want the system to use established standards so that it is maintainable.