# System Features

## Create Poll:

* + 1. **Description and Priority**
  + This feature enables the creation of a Poll by authorized users (Admins and Group Leaders).
  + The system facilitates the creation of Private Polls and Public Polls.
* Private Polls: The polls in which only specific group of people can participate in.
* Public Polls: The polls in which any user of our system can participate in.
  + Priority – High
    1. **Stimulus/Response Sequences**

1. A poll is created in the system by adding the details of poll to the database
2. The status of poll creation is indicated by means of a message box to the authorized user who has created it
   * 1. **Functional Requirements**

**REQ-1.1.1:** The system must provide a button or link called ‘Create Poll’ to an authorized user, on his/her dashboard

**REQ-1.1.2:** Clicking on ‘Create Poll’ must display a form to the user, which contains the fields that need to be filled-in by the poll creator (A person who is creating the poll): *Poll Head line, Brief description of the Poll, Poll start date, Poll end data, Type of poll (Public/Private), a list of poll options, submit button, cancel button.*

**REQ-1.1.3**: The system should provide options to associate user groups to the private poll

**REQ-1.1.4:** On clicking ‘Submit’ button, the form data must be validated and system’s database must be updated only upon successful data validation.

**REQ-1.1.5:** On clicking ‘Cancel’ button, the form must be exited and system focus must go back to the user’s dashboard

## Create Survey:

* + 1. **Description and Priority**
  + This feature enables the creation of a Survey by authorized users (Admins and Group Leaders).
  + The system facilitates the creation of Private Surveys and Public Surveys.
* Private Surveys: The surveys in which only specific group of people can participate in.
* Public Surveys: The surveys in which any user of our system can participate in.
  + Priority – High.
    1. **Stimulus/Response Sequences**

1. A survey is created in the system by adding the details of survey to the database
2. The status of survey creation is indicated by means of a message box to the authorized user who has created it
   * 1. **Functional Requirements**

**REQ-1.2.1:** The system must provide a button or link called ‘Create Survey’ to an authorized user, on his dashboard

**REQ-1.2.2:** Clicking on the ‘Create Survey’ must display a form to the user, which contains the below fields that need to be filled-in by the survey creator (A person who is creating the survey). *Survey Head line, Brief description of the Survey, Survey start date, Survey end data, Type of Survey (Public/Private), ‘Add Survey Question’ button, ‘Remove Survey Question’ button, ‘Submit’ button, ‘Cancel’ button*

**REQ-1.2.3:** The system must provide an option to associate user groups to the private surveys

**REQ-1.2.4:** Clicking ‘Add Survey Question’ must add a survey question to the survey under creation

**REQ-1.2.5:** In order to remove a survey question before the survey is created, the user must ‘check mark’ the particular survey questions and then click on ‘Remove Survey Question’ button.

**REQ-1.2.6:** Clicking on ‘Submit’ button must validate the form data and the form data must be submitted to the system’s database only upon successful validation

**REQ-1.2.7:** On clicking ‘Cancel’ button, the form must be exited and system focus must go back to the user’s dashboard

## Create User Group:

* + 1. **Description and Priority**
  + This feature enables the creation of a User Group by authorized users (Admins and Group Leaders). The User Groups are created to categorize the people. This ensures a particular category of people to participate only in their relevant private polls/surveys.
  + Priority – High.
    1. **Stimulus/Response Sequences**

1. A user group is created in the system by adding the details of user group to the database
2. The status of user group creation is indicated by means of a message box to the authorized user who has created it
   * 1. **Functional Requirements**

**REQ-1.3.1:** The system must provide a button or link called ‘Create User Group’ to an authorized user, on his dashboard

**REQ-1.3.2:** Clicking on the ‘Create User Group’ must display a form to the user, which contains the fields that need to be filled-in by the user group creator are: *Group Name, Brief description about the group, Option to add users to the group, ‘Submit’ button, ‘Cancel’ button*

**REQ-1.3.3:** Upon clicking ‘Submit’ button, the form data must be validated and submitted to the system’s database only upon successful data validation

**REQ-1.3.4:** On clicking ‘Cancel’ button, the form must be exited and system focus must go back to the user’s dashboard

## Add User to the User Group:

* + 1. **Description and Priority**
  + This feature enables the addition of new users to a particular user group by authorized users (Admins and Group Leader that has created the group). Once a User Group is created, the authorized users can add as many users as needed to that group
  + Priority – Medium.
    1. **Stimulus/Response Sequences**

1. Once a user is added to a user group, he/she can participate in all the polls or surveys that are intended for that user group
2. The users of a particular user group can also view the results of the poll/survey that is conducted for their group.
   * 1. **Functional Requirements**

**REQ-1.4.1:** The system must provide a button or link called ‘Add User to User Group’ on the dashboard of an authorized user, which on clicking must display a list of user groups created by that authorized user.

**REQ-1.4.2:** Upon selecting any one user group and clicking ‘Continue’, the authorized user must be provided an option to add more users to that group

**REQ-1.4.3:** The system must provide a button ‘Save’ to save the changes and ‘Cancel’ to cancel the addition of users to the user group and move the focus of system back to user’s dashboard.

## Remove User from the User Group:

* + 1. **Description and Priority**
* A user is removed from a user group by an authorized user, if the user doesn’t belong to the user group/system any more. The authorized users can remove any user from a user group
  + Priority – Medium.
    1. **Stimulus/Response Sequences**

1. Once a user is removed from a user group, he can no longer access to the poll/survey which is associated to that particular user group
2. The system indicates a permission denial error message if the user tries to access to the group in any manner
   * 1. **Functional Requirements**

**REQ-1.5.1:** The system must provide a button or link called ‘Remove User from User Group’ on the dashboard of an authorized user, which on clicking must display a list of user groups created by that authorized user.

**REQ-1.5.2:** Upon selecting any one user group and clicking on ‘Continue’ button, the authorized user must be provided an option to enter usernames of users who are to be removed.

**REQ-1.5.3:** The system must provide a button ‘Remove’ to remove the users and ‘Cancel’ to cancel the removal operation and move the focus of system back to user’s dashboard.

## Edit User Group:

* + 1. **Description and Priority**
  + This feature enables an authorized user to edit a user group data. The user groups are edited in order to modify the description of the group and add/remove users to/from the group.
  + Priority – Low.
    1. **Stimulus/Response Sequences**

1. Upon making the necessary changes and clicking ‘Submit’ button, the user group details must be updated in the database.
2. The status of user group editing is indicated by means of a message box to the user who is editing the group
   * 1. **Functional Requirements**

**REQ-1.6.1:** The system must provide a button or link called ‘Edit User Group’ on the dashboard of an authorized user, which on clicking must display a list of user groups created by the user.

**REQ-1.6.2:** Upon selecting a user group and clicking ‘Continue’, a form containing the fields that are already populated with the currently selected user group values must be displayed to the user

**REQ-1.6.3:** System must provide options to modify the user group details

**REQ-1.6.4:** Clicking on ‘Submit’ must validate the form data and update system’s database only upon successful validation.

**REQ-1.6.5:** On clicking ‘Cancel’ button, the form must be exited and system focus must go back to the user’s dashboard

## Delete User Group:

* + 1. **Description and Priority**
  + This feature enables an authorized user to delete a user group by. The User Groups are deleted when they are no longer needed (Ex: all the group members might have exited from the system or there is no necessity to create any poll/surveys to that user group, etc.)
  + Priority – Low.
    1. **Stimulus/Response Sequences**

1. The group will be deleted from the system’s database.
2. The status of user groups’ deletion is indicated by means of a message box to the user who has deleted the group.
   * 1. **Functional Requirements**

**REQ-1.7.1:** The system must provide a button or link called ‘Delete User Group’ on the dashboard of an authorized user, which on clicking must display a list of user groups created by the user.

**REQ-1.7.2:** Upon selecting one or more user groups that needs to be deleted and clicking on ‘Delete’ button must delete the selected user groups

## Participate in Poll/Survey:

* + 1. **Description and Priority**
* This feature enables a user to participate in a particular poll/survey by submitting his poll/survey response.
  + Priority – High.
    1. **Stimulus/Response Sequences**

1. The users poll/survey response is submitted to the system by updating the system’s database
2. The status of poll/survey participation is indicated to the user after submitting it
   * 1. **Functional Requirements**

**REQ-1.8.1:** The system must provide a button or link called ‘Participate in Poll/Survey’ on the user’s dashboard, which upon clicking must display a dropdown to the user, where he must to choose one of the these: *1)Public, 2)Private*

**REQ-1.8.2:** Upon selecting any of the above from dropdown, the system must display another dropdown to the user, where he needs to choose one of these: *1) Poll, 2) Survey, 3) Both*

From the REQ-1.8.1 and REQ-1.8.2, the possible combinations of users’ options and their requirement are as follows:

**REQ-1.8.2.1:** Public and Poll – The system must display all public polls

**REQ-1.8.2.2:** Public and Survey – The system must display all public surveys

**REQ-1.8.2.3:** Public and Both – The system must display all public polls & surveys

**REQ-1.8.2.4:** Private and Poll – The system must display all private polls

**REQ-1.8.2.5:** Private and Survey – The system must display all private surveys

**REQ-1.8.2.6:** Private and Both – The system must display all private polls & surveys

**REQ-1.8.3:** On selecting any poll/survey from the list of polls or surveys, the system should display that selected poll or survey form

**REQ-1.8.4:** Option must be provided to provide user’s opinion and submit it to the system, where the database is updated only after the poll/survey is submitted successfully.

## Request for Group Leadership:

* + 1. **Description and Priority**
  + This system feature is used by the normal users to attain the role of a ‘Group Leader’
  + Priority - High
    1. **Stimulus/Response Sequences**

1. The user’s request for role change will be submitted to the Admin in the form of a notification on Admin’s dashboard
2. The admin must decide on whether to approve or reject the request for role change
   * 1. **Functional Requirements**

**REQ-1.9.1:** The system must provide a button or link called ‘Request for Group Leadership’ on the users’ dashboard, which on clicking must display a form to the user, which must contain a text box for capturing the reason for request, a ‘Submit’ button and a ‘Cancel’ button

**REQ-1.9.2:** Clicking on ‘Submit’ must validate the data entered in textbox and submit the request to the administrator only upon successful data validation

**REQ-1.9.3:** Clicking on ‘Cancel’ must exit from the form and display the dashboard of the user

## Respond to Group Leadership Requests:

* + 1. **Description and Priority**
  + This system feature enables the Admin to either approve or reject the Group Leadership request from a normal user. The admin makes a decision based upon the description or reason behind the user’s request.
  + Priority - High
    1. **Stimulus/Response Sequences**

1. A normal user’s role is changed to a Group Leader role
2. The user must now gain all the accesses of a group leader
   * 1. **Functional Requirements**

**REQ-1.10.1:** The system must provide a button or link called ‘Respond to Group Leadership Requests’ on the admin’s dashboard, which upon clicking must display a list of requests that the admin is yet to review and provide his decision.

**REQ-1.10.2:** Upon selecting one particular request, the system must show the details of the request in an action box, which contains ‘Approve’ and ‘Reject’ buttons.

**REQ-1.10.3:** Clicking on ‘Approve’ must change user role from a normal user to a group leader and update the user’s role on system’s database.

**REQ-1.10.4:** Clicking on ‘Reject’ must leave the normal user’s role as it is and exit the action box.

## View Poll Results:

* + 1. **Description and Priority**
* This feature enables a user to view the results of a particular poll that he is authorized to or has participated in.
  + Priority – High.
    1. **Stimulus/Response Sequences**

The users can view the results of the poll

* + 1. **Functional Requirements**

**REQ-1.11.1:** The system must provide a button or link called ‘View Results’ on the users’ dashboard, which upon clicking must display a dropdown to the user, where he needs to choose one of the these: *1)Public, 2)Private*

**REQ-1.11.2:** Upon selecting any of the above from dropdown, the system must display another dropdown to the user, where he needs to choose one of these: *1) Poll, 2) Survey, 3) Both*

From the REQ-1.11.1 and REQ-1.11.2, the possible combinations of users’ options and their requirement are as follows:

**REQ-1.11.2.1:** Public and Poll – The system must display all public polls

**REQ-1.11.2.2:** Public and Survey – The system must display all public surveys

**REQ-1.11.2.3:** Public and Both – The system must display all public polls & surveys

**REQ-1.11.2.4:** Private and Poll – The system must display all private polls

**REQ-1.11.2.5:** Private and Survey – The system must display all private surveys

**REQ-1.11.2.6:** Private and Both – The system must display all private polls & surveys

**REQ-1.11.3:** On selecting any poll/survey from the list of polls or surveys, the system should display the results of the selected poll or survey

## Publish Results:

* + 1. **Description and Priority**
* This feature enables an authorized user to publish the results of a particular poll/survey
  + Priority – High.
    1. **Stimulus/Response Sequences**

The users can view the results of the poll/survey on their dashboard

* + 1. **Functional Requirements**

**REQ-1.12.1:** The system must provide a button or link called ‘Publish Results’ on the authorized users’ dashboard, which upon clicking must display a dropdown to the user, where he needs to choose one of these: *1) Public, 2) Private*

**REQ-1.12.2:** Upon selecting any of the above from dropdown, the system must display another dropdown to the user, where he needs to choose one of the below: *1) Poll, 2) Survey, 3) Both*

From the REQ-1.12.1 and REQ-1.12.2, the possible combinations of users’ options and their requirement are as follows:

**REQ-1.12.2.1:** Public and Poll – The system must display list of all public polls

**REQ-1.12.2.2:** Public and Survey – The system must display list of all public surveys

**REQ-1.12.2.3:** Public and Both – The system must display list of all public polls & surveys

**REQ-1.12.2.4:** Private and Poll – The system must display list of all private polls

**REQ-1.12.2.5:** Private and Survey – The system must display list of all private surveys

**REQ-1.12.2.6:** Private and Both – The system must display list of all private polls & surveys

**REQ-1.12.3:** On selecting any poll/survey from the list of polls or surveys and clicking ‘Continue’, the system should enable ‘Publish’ button, which upon clicking must publish the results of the selected poll or survey

## Create Admin:

* + 1. **Description and Priority**
* This feature enables the root admin to create an additional admin
  + Priority – High.
    1. **Stimulus/Response Sequences**

An admin is created in the system.

* + 1. **Functional Requirements**

**REQ-1.13.1:** The system must provide a button or link called ‘Create Admin’ on the root admin’s dashboard, which upon clicking must display an action box that should contain the following fields: *Text box for entering the new admin username, ‘Create’ button, ‘Cancel’ button*

**REQ-1.13.2:** Upon clicking ‘Create’ button, the system must validate textbox data and create a new admin (Change user role from Normal user or Group Leader to Admin) only upon successful data validation and then the system’s database is updated

**REQ-1.13.3:** Upon clicking ‘Cancel’ button, the admin creation process must cancel and should not make any user role changes in the database.

## Register:

* + 1. **Description and Priority**
* This feature enables a person to register to our system
  + Priority – High.
    1. **Stimulus/Response Sequences**

A user is added to the system, who can access system’s functionalities based upon his role

* + 1. **Functional Requirements**

**REQ-1.14.1:** The system must provide a button or link called ‘Register’ on the home page, which upon clicking must display a form that should contain the following fields: *First Name, Middle Name, Last Name, Email Id, Contact Address, Contact Number, Password, Confirm password, Register button, Cancel button*

* TBD: We may add some additional fields if needed

**REQ-1.14.2:** Upon filling the fields provided and clicking on ‘Register’ button, the system must validate the form data and submit to the system and update database only upon successful data validation

**REQ-1.14.3:** Upon clicking ‘Cancel’ button, the system must exit the registration process and the user should not be created in the database.

## Sign in:

* + 1. **Description and Priority**
* This feature enables a person to sign in to the system
  + Priority – High.
    1. **Stimulus/Response Sequences**

A registered user signs into the system and access his/her dashboard

* + 1. **Functional Requirements**

**REQ-1.15.1:** The system must provide a button or link called ‘Sign In’ on the home page, which upon clicking must display a form that should contain the following fields: *Email Id (user name), Password, Sign In, Register, Forgot Password, TBD: We may add some additional fields if needed*

**REQ-1.15.2:** Upon filling the ‘Email Id’ and ‘Password’ fields and clicking on ‘Sign In’ button, the system must validate the user data, and display the user’s dashboard only upon successful validation of the user id and password.

## Forgot Password:

* + 1. **Description and Priority**
* This feature enables a person to reset his password in case if he has forgotten it.
  + Priority – High.
    1. **Stimulus/Response Sequences**

A user can change or reset his password

* + 1. **Functional Requirements**

**REQ-1.16.1:** The system must provide a button or link called ‘Forgot Password’ on the ‘Sign In’ page, which upon clicking must display a form, that should contain the following fields: *Email Id (user name), Submit, Cancel*

* TBD: We may add some additional fields if needed

**REQ-1.16.2:** Upon filling the ‘Email Id’ field and clicking on ‘Submit’ button, the system must validate the email id and send an email to it, containing a link to reset the password

**REQ-1.16.3:** Upon clicking the link in the previously sent email, a form must be provided to the user with the following fields: *Email Id, New Password, Confirm Password, ‘Save Changes’ button, ‘Cancel’ button*

**REQ-1.16.4:** Upon filling the ‘Email Id’, ‘New Password’, ‘Confirm Password’ fields and clicking on ‘Save Changes’ button, the data entered must be validated and database must be updated only upon successful validation

**REQ-1.16.5:** On clicking ‘Cancel’ button, the form must be exited and system must display the homepage containing the links for ‘Register’ and ‘Sign In’

## Sign Out:

* + 1. **Description and Priority**
* This feature enables a person to exit from his current user session
  + Priority – High.
    1. **Stimulus/Response Sequences**

A user exits from the system, which displays the homepage of the system after user signs out.

* + 1. **Functional Requirements**

**REQ-1.17.1:** The system must provide a button or link called ‘Sign Out’ on the user’s dashboard, which upon clicking must exit the user’s dashboard and end the current user session

**REQ-1.17.2:** The homepage of the system that contains ‘Sign In’ and ‘Register’ links must be displayed to the user once he/she signs out.

## Generic Functional Requirements common to all System Features:

## Form Validation:

* + 1. **Description and Priority**
* Forms are associated with several system features of our product. This feature validates the form data filled and submitted by the user.
  + Priority – High.
    1. **Stimulus/Response Sequences**

1. User fills in the forms that are provided to him during poll/survey creation, etc. and submits the form to the system
2. The form data is validated and submitted to the system only upon successful validation
   * 1. **Functional Requirements**

**REQ-1.18.1:** The system must validate the form data that is submitted by the user

**REQ-1.18.2:** If the form data is invalid, the system must display appropriate validation error message to the user by means of a pop-up box, with an ‘Ok’ button on the pop-up box

**REQ-1.18.3:** Clicking on ‘Ok’ button must exit the pop-up box and highlight the form fields that violated the field constraints in ‘red’ color

**REQ-1.18.4:** If the form data entered is valid, the data must be submitted to the system.

## Error Messages:

* + 1. **Description and Priority**
* The users interact with the system at several points of time. For example: To create Poll/Survey, participate in poll, create user groups etc. If any issues occur within the system (web server might be down, database might be down, etc.), it is communicated to the users, giving them a standardized meaningful error message behind the error, by means of a pop-up box
  + Priority – High.
    1. **Stimulus/Response Sequences**

1. User interacts with the system to create poll/survey, update user group, participate in poll, etc.
2. If any errors are associated while interacting with the system, it is communicated to the users as a meaningful message
   * 1. **Functional Requirements**

**REQ-1.19.1:** The system must identify the errors that occur when a user interacts with the system

**REQ-1.19.2:** The errors are communicated to the users as a standardized error message by means of a pop-up box that contains ‘Ok’ button. The error message must be in a user understandable format

**REQ-1.19.3:** Clicking on ‘Ok’ button must exit the pop-up box and take the focus back to the system