## Objective

Development of an online Survey Management System.

## Abstract of the project

This project is aimed at developing Online Survey Management System. This is an Intranet based application that can be accessed throughout the organization and this is a web based application that can be accessed over the web. This system can be used to create the survey questionnaire, edit old survey (only when not distributed), distribute survey, review survey, display list of responded survey, view the list of pending surveys to be responding, and respond for the survey. This is an integrated system that contains the surveyor, the respondent component and the admin (both surveyor and respondent) component.

## Functional components of the project

Following is a list of functionalities of the system. Wherever, the description of functionality is not adequate, you can make appropriate assumptions and proceed.

There are three categories of people who would access the system viz. Admin (both surveyor and respondent), Surveyor & Respondent. Each one of them would have some exclusive privileges (for e.g. Surveyor can create the survey questionnaire, edit old survey (only when survey is not distributed), distribute survey and review survey.)

1. Surveyor should be able to
   * Login to the system using his/her credentials
   * Create the survey questionnaire by filling the form field’s values for survey title, description, questions. Atleast one question should be mentioned. Questions can be of 4 type as mentioned below:
     1. Question that have choices and more than one option.
     2. Question that have choices and only one correct option.
     3. Question that has a one line answer (max of 250 characters).
     4. Question that has a descriptive answer (max of 4000 characters).
   * Edit the survey details like description and questions based on survey title only if survey is not distributed.
   * Distribute an existing survey to a list of existing respondents.
   * Review the distributed survey responses by viewing the number of responds received against the number of distribution & View the list of pending surveys.
2. The Respondents should be able to
   * Login into the system using his/her credentials.
   * Respond for a survey (from a list) by answering the questionnaires.
   * View list of responded survey.
3. The Admin should be able to do all the activities of both surveyor and respondents.

**Suggested Stack:**

1. **JAVA Track:**

* Java 8
* Angular 6+
* Maven
* Spring Boot 2.x
* SpringREST
* Spring Data JPA
* Postman
* Oracle/Postgres
* JUnit 5/Mockito
* Sonarqube
* JACOCO

1. **.NET Track**

* C#
* Asp.net
* EntityFramework
* Angular 6+
* MSBuild, MSTest/NUnit,
* SQL/MySQL/Oracle/Postgres