Software Requirements Specification

For

Online Survey/Campaign creation Software

Version 1.0 approved

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1.Introduction

1.1 Purpose

The purpose of this Software Requirement Specification document is to provide a detailed overview of our software product, its parameters and goals. This document describes the project's target audience and its user interface, hardware and software requirements. It defines how our client, team and audience see the product and its functionality. Nonetheless, it helps any designer and developer to assist in software delivery lifecycle (SDLC) processes.

1.2 Intended Audience and Reading Suggestions

The document describes the scope, functionality and features of an online survey creation software. This document finds relevance to people from various different technical and non-technical backgrounds. The document outlines various corporate goals, business strategies and design features that are important from a management point of view and can be used by project managers. It analyses performance, visibility and brand awareness which is important for marketing and advertising. With detailed analysis of the system design, features, implementation and performance, the document proves highly valuable to developers and testers. Through the rest of the document, one becomes familiarized with the scope of our platform from their purpose, benefits and business strategies. The context and origin of the product as well as its basic functionality are then explained in relevant detail along with an analysis of its different classes, design and implementation. We then detail the interface requirements, build analysis models and examine system features and non-functional requirements.

1.3Product Scope

The main aim of the project is to form a platform to give user the option to choose between creation of survey or campaign to collect the viewpoints of related people about certain issue. In this system, only the users with appropriate login details create a survey or campaign. In order to take any decision in an organization, it is essential to know what actually workers or the members of organization want. The implementation of project for our users can avoid the programs such as meetings, conferences etc.to take any decision or research. With the help of this online system user can easily get to know the viewpoints of public or their customers.

1.4 References

[1]https://www.researchgate.net/publication/341093993_A_SURVEY_OF_SOFTWARE_REQUIREMENTS_SPECIFICATION_AMBIGUITY

[2] https://financesonline.com/survey-software-comprehensive-guide-benefits-features-types-pricing/#:~:text=Survey%20software%20is%20an%20application,drop%20tools%20and%20automated%20functionality

2.Overall Description

2.1 Product Perspective

The product at hand is new and self-contained. The software can be integrated into localised plagiarism checker platforms in educational institutions and research organisations. The integration can be done either by using links to the website or by uploading the software onto the organization's cloud. The organization must have an Internet connection and/or localised cloud servers if they intend to include the software in their portals.

2.2 Product Functions

Enlisted below are all the major functions supported by the online survey / campaign creation along with the user classes.

- **Register**: for registering details before user creates a survey /campaign
- **Login**: for platform users
- **Logout**: for platform users
- **Survey builder**
- **Campaign builder**
- **Customer feedback**

2.3 User Characteristics

The most important user classes for this platform are Organizers, employees and social workers. They constitute the primary individuals who will be using this software the most.

In order to take any decision in an organization, it is essential to know what actually workers or the members of organization want. It may not possible to listen to everybody separately. So, an online survey creation system is the solution of these existing problems in an organization.

Social workers can raise a campaign and give an option between upvoting or downvoting of the solution for an issue and can easily get to know the viewpoints of public.

Head of Managing team in a software company might want to conduct a survey among their employees to get to know their viewpoints and take clear decisions.

2.4 Constraints

Privacy. It's not just an issue with survey solutions, but mainly the entire SaaS industry. An online survey app will get hold of your list; no matter how transparent the terms and disclaimers of the vendor, the fact is you've given away your list by uploading it into the system. Even if you don't have a list to start with, building one that is shared with a third party, the vendor, can be at best an annoying aspect of cloud solutions.

Survey fatigue. What is survey software but to make survey projects easy to create and launch at a low cost? The downside is, everybody can do surveys, which leads to saturation of the respondent pool or oversampling and low response rates. Just how many surveys do you encounter in one internet browsing period and how many of these questionnaires you've given attention, really? In this context, pen-and-paper and phone interviews may provide a good alternative to grab respondent's attention.

Relying on templates. Templates are supposed to guide you or fast track your survey design. It should not replace the design process itself. In short, a template should fit your design and not the other way around. That's why most solutions let you tweak the template to fine tune it along your design structure. If you depend on template to design your questionnaire, you may be compromising the integrity of feedback.

Budget is pulled down. Because many online survey solutions are available at low cost, even free, management may be hesitant to put more budget into your survey. This shift in mindset looks at surveys as a function of software and not a professional discipline that requires investment to guarantee data integrity.

2.5 Assumptions and dependencies

The app dependencies are as follows:

dotenv for reading environment variables from .env file

json for working with JSON

os for getting environment variables

React js for front end development

Node js for back end development and as run time environment

Express js for API's in back end development

Mysql for database management

2.5 Operating Environment

The product can be accessed by directly going to our website. Possession of our IP address/ URL and an Internet connection is sufficient to access and use our services. Our server will take in client entries, search the database/csv file that has been provided to it and display suitable outputs.

If the software is to be integrated to the cloud, then the cloud must have sufficient storage to hold the software (hold the files) that are uploaded by the user. The software will be stateful if integrated onto the cloud i.e it will be able to keep track of all the prior actions performed by users. In such a scenario, the cloud must be sufficiently large enough to store queries, documents and their results.

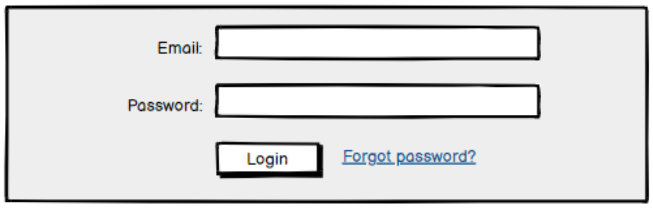
3. External Interface Requirements

3.1:

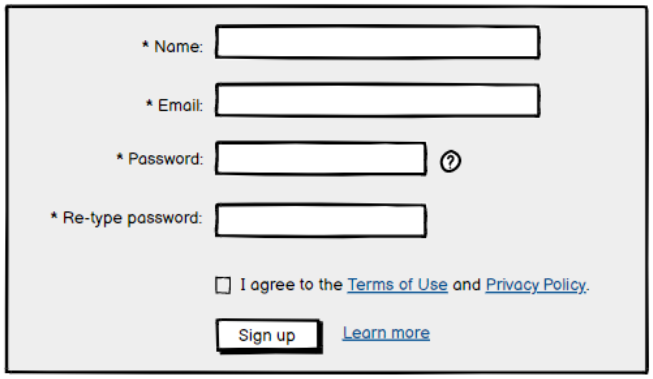
Log in/Sign up

This page allows the users with a from account under this survey software to Sign in to their account. The user can Sign in either with their phone number or email id.
The user, after entering their email id or phone number can click on the continue button. If the entered email id or phone number is valid, the system asks the user to enter the password which if entered correctly, takes the user to the homepage of the system and the user's name is displayed on the top navigation bar.

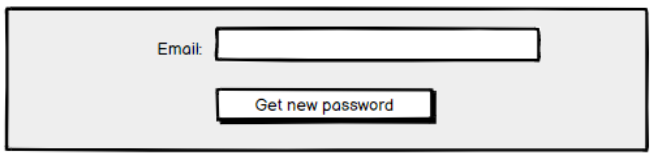
Login



Sign Up



Forgot Password



Home page

The home page of this online survey software is designed to be attractive and user friendly.

Survey page

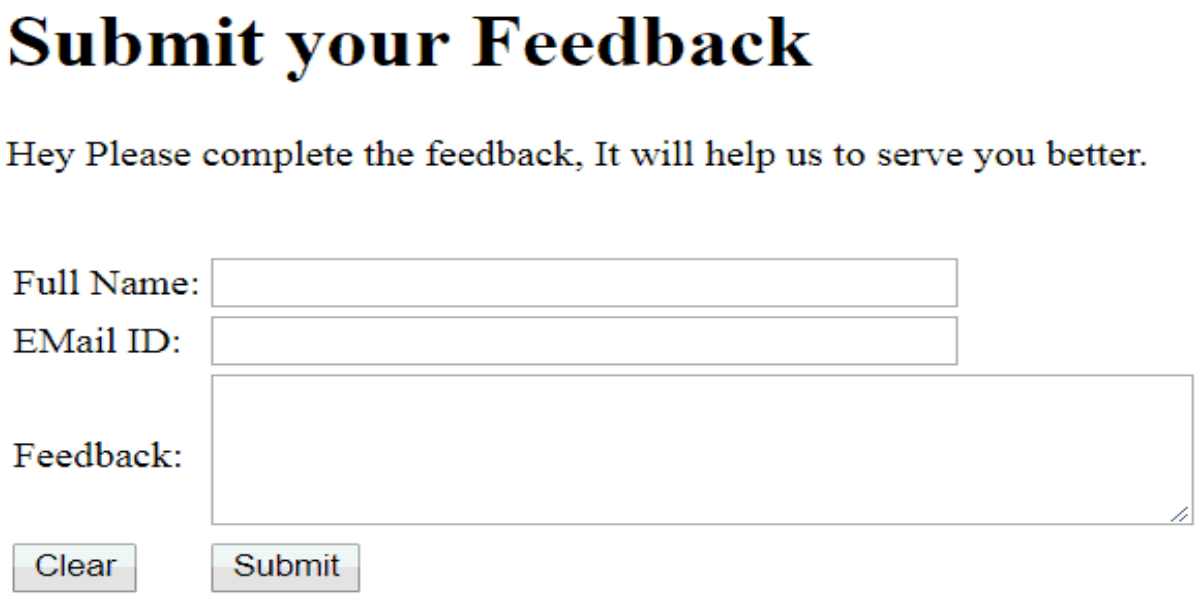
User initiates a survey and gives options to react in the form of polls. Others if they are interested in the survey can participate in the polling. When the survey ends users can see the graph of the polling.

Campaign page

User starts a campaign regarding solution for any real life problems . Others can support by upvoting or oppose by downvoting.

Feedback page

In this page user can enter the feedback, with his email id. So we can get to know what we can do better for user



3.2: Software Interface

All the web pages of this online survey software are majorly built using development tools like HTML, CSS, JavaScript, Bootstrap, React etc.
This online survey software is accessible through the internet on any Operating System like Unix, Linux, Mac, Windows, etc.
This system stores the user data ,survey data and campaign data in multiple databases which are present in data centres located at various geographical locations. The types of databases mainly include MySQL database etc.
The complete information about the survey and campaign is stored in the databases of the system. One user may initiate a survey or start a campaign in which others can participate.
System has login and signup page to verify the valid user.
Home page has option for users to choose what they want to do in our website i.e, initiate/participate in a survey/campaign.
Initiating survey: User initiates a survey and gives options to react in the form of polls. Others if they are interested in the survey can participate in the polling. When the survey ends users can see the graph of the polling.
Start Campaign: User starts a campaign regarding solution for any real life problems. Others can support by upvoting or oppose by downvoting.
Feedback: Feedback form has rating system along with manual feedback that is text field.

3.3 Communications Interfaces

The user can access the online survey software through the internet by searching the system's name on the web browser.

The system shall use the HTTP protocol for communication over the internet.

System shall generate OTP while signing up the new user and send it to the email id given by the user. And also sends feedback copy to the email id which is given by the user.

4. System Features (Functional Requirements)

REGISTRY:

- **User**: User
- **Input**: In sign up page
  - enters name, email-id/phone number and password
- **Output**: Successfully registered, the login page is displayed
- **Alternative flow(s):** In case of repeated/invalid email id or phone number, ask user to re-enter a valid choice

LOGIN:

- **User :** User
- **Input**: In login page
  - enters registered email-id/phone number and password.
- **Output**: Successfully logged in, the home page is displayed.

LOGOUT:

- **User**: User
- **Input**: Click ‘logout’ button in home page
- **Output**: User is logged out of the account, Login page will be displayed

Survey Builder:

User is allowed to add survey with 2 or many polls per survey.

Scoring:

Total percentage of users reacted for each poll.

Campaign Builder:

User is allowed to build campaign. Using a text area.

5. Other Non-functional Features

5.1 : Performance Requirements

Information system: The infrastructure and organization of the information system can crucially affect performance in the following ways

- average response time of web page
- failure rate
- average web page creation time
- site maintenance costs.

In order to maintain an acceptable speed at the maximum number of requests allowed from a particular user, any number of users must be able to access the system at any time. A smooth UI/UX is a necessity for all social applications. While a visually appealing design is essential, image optimization and other techniques can be implemented to ensure that the site is not very heavy. Real-time technologies equip online retailers with tools to keep up with the ever-evolving search ecosystem. Flexible goal setting, third-party data integration and real-time optimization offers a systematic solution to many ongoing challenges.

5.2 Security Requirements

To ensure secure transfer of data, the system must use secure sockets in all transactions that include any confidential user information. The system may choose to automatically log out all users after a period of inactivity and verify by confirmation all the transactions with the user's web browser. The system will ensure that cookies and all temporary storage do not hold any sensitive information. The user's web browser must never display a user's password or credit card details. The system's back-end servers must never display a user's password and these servers must only be accessible to authenticated administrators. These databases must be encrypted and within the company's perimeter.