Business Requirements Document (BRD)

for

Essential Survey Tool

Group 29

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Introduction

Executive Summary

essential survey tool is an online system for both creating and filling survey forms, this system offers the needed tools for creating your forms and analyzing the results in a friendly interface, the system can be used by everyone ranging from students or teachers to business managers, researchers across all industries, with essential survey tool we will get you all the feedback and data you need to enhance the wisdom of your decision making.

Document Overview

This document introduces essential survey tool product study plan. It introduces general description, technical description and operation plan.

Business Objectives

- Offer easy and reliable online surveying.
- Offer over 6 different types of input questions.
- Offer editability and control over created forms.
- Offer real-time analysis tools.
- Offer free and self-growing service to everyone.

Background

Today, Online Forms are considered a fast-developing surveying method because of its accuracy and speed. It is also needed less manpower to handle the analysis.

Almost all organizations today, are managing their surveys and feedback by online froms system, since it reduces customers time in filling the surveys.

Organizations can also easily monitor the results of the survey that they created. As a result of this, the result is calculated in less time. It also helps diminishing the need for paper. Online forms systems are very useful to learn it is significantly important to the different institutions and organizations to prepare the survey, saving the time and effort that is required to check the survey papers and to prepare the results reports.

Since the traditional have many drawbacks such as time consuming, Difficulty of analyzing the surveys manually, More observers are required, Results are not accurate since calculations is done manually, Checking of result is time consuming since it is done manually.

System Description

What is Essential Survey Tool

Dynamically create custom forms for feedbacks, surveys and questionnaires at ease. Gather everything under a single page and analyze data right away with a friendly user interface and tools to create awesome surveys, but we also give you cool ways to get responses and analyze your results to make your decisions.
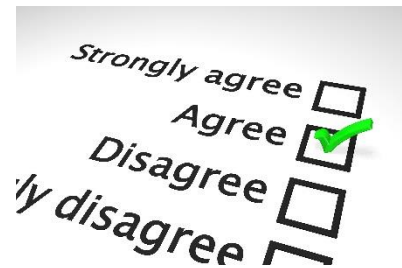
Great looking surveys help you connect with customers to gain valuable insights. Add images, videos, and custom logic to give people who respond a great survey experience.

Starting A Form

First , register for an account on our website then get access to creating , managing and analyzing multiple forms.

Select from multiple input types, drag-and-drop questions and customize values in a Fully customizable interface.

Share your created forms using a generated link for each form.

Manage forms

You will be able to stop responses for a form temporarily or permanently close it, even put deadlines for forms and it will close automatically for you after the date you specified.

You will also be able to edit the appearance of your forms but with the exception of not adding or removing inputs.

Results Analysis

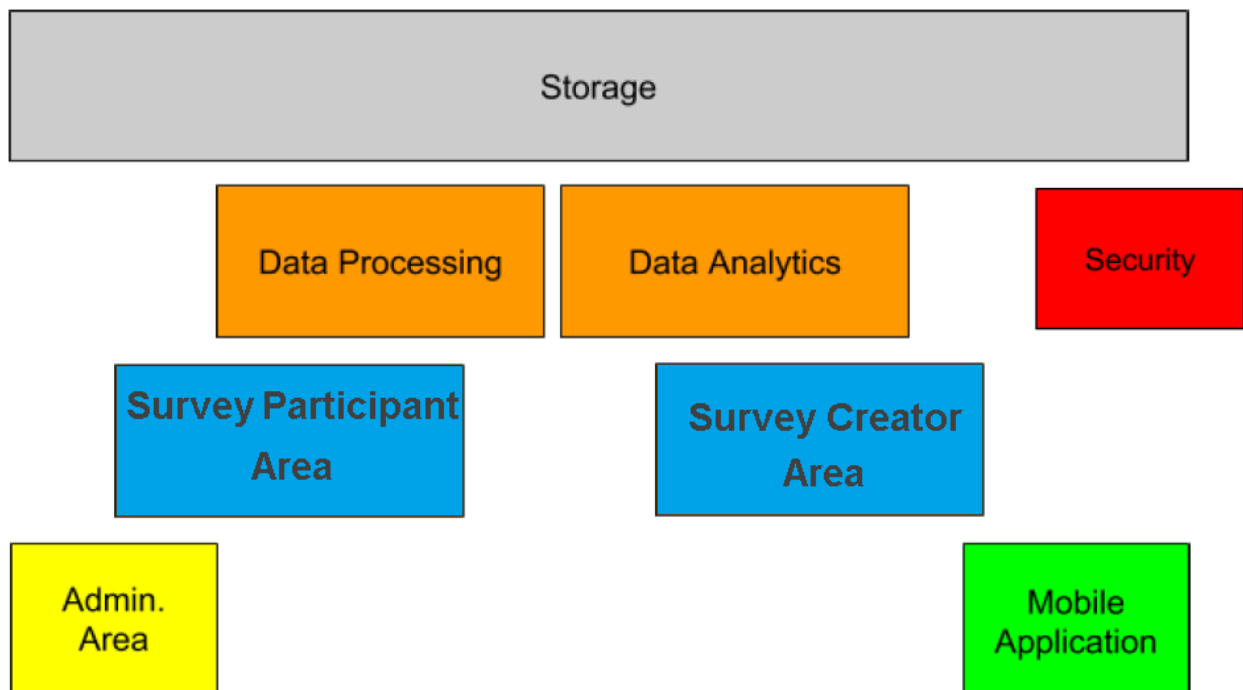Watch responses appear in real time. You can also access the raw data and analyze it with our website or android application.

System Architecture

The system consists of following modules:

1. Storage
2. Data Processing
3. Data Analytics
4. survey creator area
5. Participant Area
6. Admin Area
7. Mobile Application

Storage

- Storing forms.
- Storing form submissions.
- Storing forms input types.

Data Processing

This module is responsible for modeling both forms and form submissions into storable data to be able to be put into database, also it is used for calling back data from database to be analyzed in Data Analytics module.

Data Analytics

This module is important to study the forms results and produce very useful result. Basically this module does Statistical analysis to produce a set of statistical studies regarding users form submissions. For example, this analysis can study the distribution of number of people participating in the form vs. time or region or language.

Security

To take care of authentication and identification of users, through login and register system and prevent malicious users from taking other users identity.

Survey Creator

The module responsible for managing or editing already created forms.

Admin

Higher class user who is able to look into all forms for all authors and have high authority, and take higher actions like adding or removing forms or authors.

Mobile Application

The whole system will be available as android mobile application.

System Features

Functional Features

Creating Survey forms

The customer can create an online survey to know the public opinion about a certain topic, get insight from people in his target market or to get feedback from customers for example the customer can create customer satisfaction survey, employee engagement survey or event planning survey and more. The customer can select from different types of questions drag ang drop them easily then specify his/her own questions he also can divide them into groups and sub-groups to create his/her own survey. Also, the customer can specify who can access his/her survey.

Varity of question types

Customer can choose from different types of survey questions such as:

- Rating scale questions
- Likert-type scales
- Semantic differential
- Multiple choice questions
- Rank order questions
- Dichotomous questions
- Open-ended questions

And other different types.

Drag and drop the questions

Customer can easily choose the type of question he/she wants from the question types provided and drag and drop it into his/her survey page and then specify the question as he wants. He/She can choose as much questions as needed to cover all the points that the customer needs information about.

Control the time of the survey

Customer can choose when to start his survey and the duration that it lasts so it will close automatically at the specified deadline.

Send surveys via web, email, social and more

Customer can reach other people easily by sending the surveys to their emails or simply share his surveys on social media. The customer can also choose who to send the surveys for, sample his audience and to invite specific persons.

Analyzing the data

The customer can get a detailed report in which the collected data is analyzed in different methods that he/she can choose as graphs, charts or simply accessing the raw data. Also, the customer can compare results by respondent group (e.g. women, doctors etc.) or how you collected responses (via email, Facebook etc.). Filter by property (including time period, completed vs. partially completed responses, email address, name, IP address, and one custom data field) to narrow down your results. Also, look for trends based on how respondents answered. (i.e. see how opinions differ between those who say they've tried your product vs. those who haven't.)

User Profile

Every customer will have his own profile where can access his work and all the forms that he had created before.

Skip Logic

Do away with the constraints of a traditional paper survey. Using question and page logic, you can set questions or pages to appear only after a specific answer is given.

Non-Functional Features

Product Requirements

- The database can have at most 10,000 registered users.
- Each user can have at most 100 forms running simultaneously.
- Each form can support at most 30 input questions.
- The number of times the form is submitted is unlimited.

Organizational Requirements

n/a

External Requirements

n/a

System Development and Operation

Overview

The system development is performed using Agile methodology.

Development Plan

	1	2	3	4	5	6	7	8	9	10	11	12	13
Preparation	■	■	■										
Implementation				■	■	■							
Testing							■						
System Testing							■						
Final Release								■					

Team

Name	Role
محمد عاطف عبدالسميع محمد	Team Leader
محمد عشماوى محمد محجوب	Web Developer
مصطفى احمد محمد امام	Web Developer
مؤمن احمد مامون حسن	Web Developer
محمد رضا جودة	Web Developer
كريم محمد كمال	Web Developer
أحمد طارق حسين محمد	Web Developer
محمد خالد عواد متولي	Web Developer
احمد علي احمد	Web Developer
مصطفى محسن كمال محمود	Web Developer

Tools

backend

Laravel php to serve as a server-side script to manage our api.

Database

Mysql to save data about users and forms, **Mongodb** to save the submissions of the form.

Frontend

Angular 6 framework with JWT authentication.

Components for homepage and authentication layouts (sign up and in), for displaying the all the user's previously created forms, and a component for displaying forms and editing forms and previewing forms.

And **Material UI** for creating neat looking pages and components and animations.

D3.js to provide us with a good toolbox to manage data analysis and visualization and to create charts and diagrams.

Bootstrap to design our layouts.

Css3 and **JS**.

Assumptions/Constraints

n/a

Risks

n/a

Related Documents

n/a