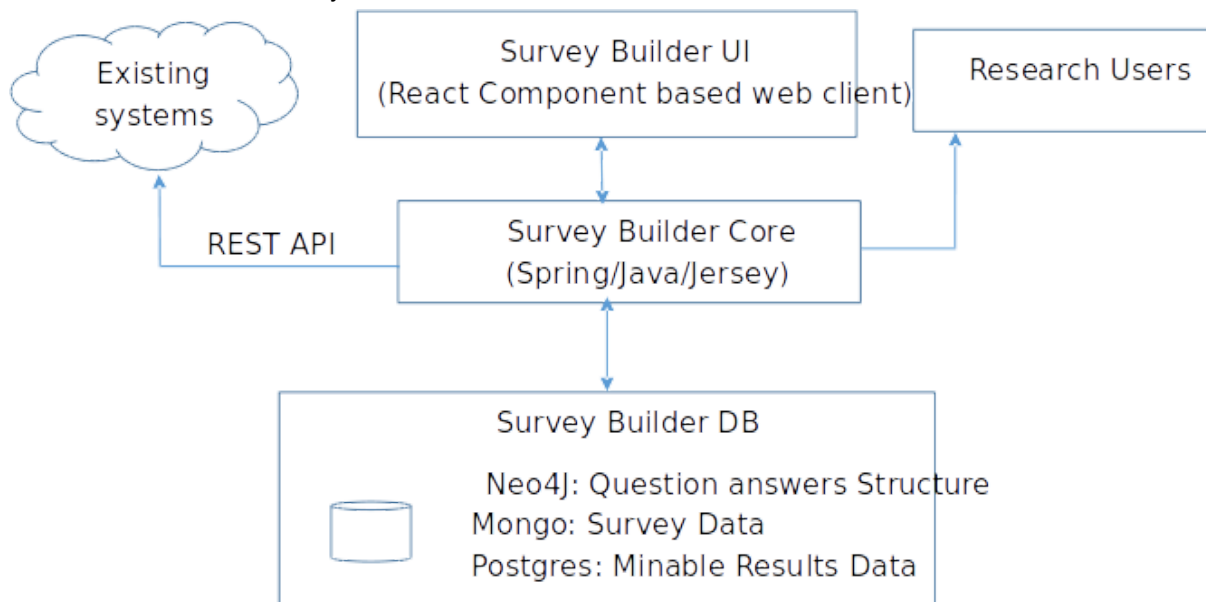


## Survey Builder System

### 1. Overview

One of the way of collecting datas from people is giving questions and answer and storing the answer to analyse according to our requirement. There will be many types of questions. Question provided may have subquestions according to user's answer. Answer may be options, text and image. The question we given for a context may change according to time and users. so questions and answer creation should be dynamic.



As shown in above figure system will have react component based web client user interface where multiple user access the system. Answers from datacollectors users will be saved to the system. Admin user can create questions with question type and sub-questions and answer type specifications including options, text and multimedia features like images. Admin user and Research users will get minable data from system. System can seamlessly integrate dynamic surveys with already existing systems which requires dynamic surveys.

### 2. Objective

- Design and implementation of user interface for system clients
- Admin privileged user should be able to create questions with question type and sub-questions and answer type specifications including options, text and multimedia features like images.
- Data collector/public users to conduct/participate remote survey using created questions and answers stacks
- Admin user to review and analytics users should be able to get minable data from system.
- Seamlessly integrate dynamic surveys with already existing systems which requires dynamic surveys.

### 3. Need for the project

This system will be integrated with project soul which is a patient management system. They expect to survey like below in system

#### 07. Particulars of Animals/ Birds :

Animals/Birds	Dog	Cat	Cow	Goat	Pig	Hen	Others
Number							

7.1 Dog registered by Pradeshiya Sabha?

Yes 1

No 2

7.2 If yes, mark the registration number: .....

7.3 Anti Rabies Vaccination (ARV) was given / not (within one year): Yes 1  
No 2

#### 08. Protection form Mosquito Bite : (Can circle more than one choice)

8.1 Method use:

Mosquito net 1

Mosquito coil 2

Oils/ Chemicals 3

Not use anyone 4

Others (Specify): .....

8.2 If using the mosquito net, how did you get?

Own (purchased) 1

Given by Government 2

Given by NGO 3

Others (Specify): .....

#### 09. Health Officer meet within last 3 months

No. of times

Private Doctor 1 .....

Government Doctor 2 .....

Medical Officer of Health 3 .....

Public Health Inspector 4 .....

Family Health Officer 5 .....

### 4. Scope

- Admin - create questions with question type and sub-questions and answer type specifications including options, text and multimedia features like images. Review minable data
- Normal User - Answer to questionnaire
- Analytic User - Can extract minable data

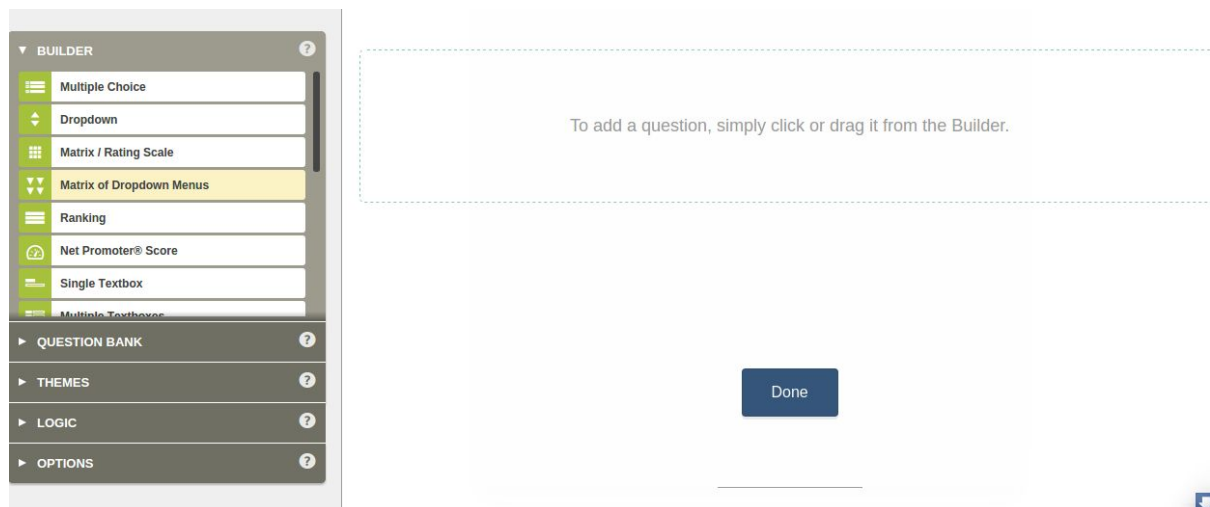
## 5. Deliverables

An interactive Web Application with intuitive and attractive user interface. Data handled in system is sensitive so application will be secure in order to face current security vulnerabilities. This system can be easily integrable with other system.

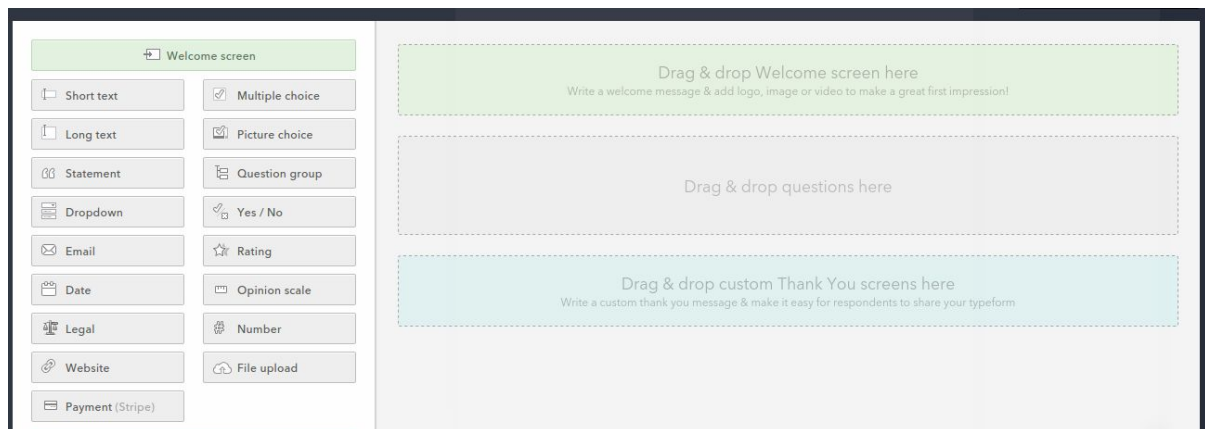
## 6. Overview of Existing Systems

There are many survey builder system available currently. some of them are survey monkey, typeform, google forms, client heartbeat, zoho survey, surveygizmo and survey planet

- Survey monkey - Probably the most well known name in the realm of online survey tools, Survey Monkey is an obvious contender. In the free version, you'll get 10 questions, 100 respondents, 15 question types, and Light theme customization and templates. The system is well designed, pretty easy to use, and you can embed surveys. The stinker: no exporting your data. Paid versions start at \$26/month, with more questions, more respondents, and other features.



- **Typeform** - Typeform wins the championship belt for creative survey creation. Typeform interface is elegant and its style is attractive, reflecting the company's motto, "Asking questions should be easy, human, and beautiful". The free version, nicknamed the CORE plan, has a ton to offer, including Unlimited questions, Unlimited answers, Data export, Custom design themes or choose from templates and Basic reporting. These are some pretty great features to find in a free version, especially the unlimited questions and answers. While logic jumps aren't available for CORE users, you can pipe respondent answers into the text of your survey (for example, if a user gives their name, you can call them by name in the following questions). The Pro version, for \$25/month, includes payment fields, a calculator feature for scoring and pricing, options to send respondents follow-up emails, etc. With a beautiful design and hefty capabilities even in the free version, Typeform is definitely worth checking out.



- **Google Forms** - Google Forms is another feather in the cap of the wonder that is Google. Some awesome features of Google Forms are Unlimited surveys, Unlimited respondents, Survey answers and data are automatically collected in Google Spreadsheets, Lots of theme options, Add your own custom logo, Add images or videos, Skip logic and page branching, Embed survey into emails or website, Add collaborators and 100% free. Google Forms is the only free online survey tool that provides free skip logic, which is pretty awesome. This will probably be the first pick for most.
- **Client Heartbeat** - Client Heartbeat is a pricier survey option starting at \$25/month. Honestly though, since the basic version only allows for 50 contacts, you'll probably want the Gold version at \$57/month. That's a pretty big price tag compared to the other survey creator tools we've been looking at. However, Client Heartbeat does offer some much more advanced reporting features. You'll get alerts to warn you of unhappy customers, see how your customer satisfaction compares against your industry benchmark, as well as a testimonial widget that can display endorsements on your website.

## **7. Technology**

React - React is an open-source JavaScript library providing a view for data rendered as HTML

Jersey - Jersey RESTful Web Services framework is an open source framework for developing RESTful Web Services in Java.

Spring - The Spring Framework is an application framework and inversion of control container for the Java platform.

Neo4j - Neo4j is a graph database management system developed by Neo Technology, Inc. Described by its developers as an ACID-compliant transactional database with native graph storage and processing, Neo4j is the most popular graph database according to db-engines.com.

MongoDB - MongoDB is a cross-platform document-oriented database. Classified as a NoSQL database, MongoDB eschews the traditional table-based relational database structure in favor of JSON-like documents with dynamic schemas(MongoDB calls the format BSON), making the integration of data in certain types of applications easier and faster.

PostgreSQL - An object-relational database management system (ORDBMS) with an emphasis on extensibility and standards-compliance

## **8. References**

<http://www.wordstream.com/blog/ws/2014/11/10/best-online-survey-tools> [13 - march - 2016]

<https://www.surveymonkey.com/> [13 - march - 2016]

<https://www.typeform.com/> [13 - march - 2016]