**Software Requirements**

**Specification**

**for**

**Ancywax Survey System**

**Version 1.0 approved**

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# Introduction

## Purpose

This is a Software Requirement Specification (herein SRS) document for the Ancywax Survey System. This is going to be the initial release. This SRS describes the whole project.

## Document Conventions

The documentations used in this project have the Times New Roman font style with the body having font size 11 and 14 for headings. The reference format used is the IEEE format.

## Intended Audience and Reading Suggestions

The document is to help the interns who are the project members as well as the developers. The document shall also be read by the internship supervisor, Mr. Bwire Ancel, who is also the customer of the system. The SRS has six sections, the first one being Introduction followed by Overall Description, External Interface Requirements, System Features, Other Non-functional Requirements and other requirements. The last pages have Appendix. The reader can jump straight to the area of interest with the help of the table of content.

## Product Scope

The end product of this project is a fully functional web based system which shall be able to perform the requirements as specified later in this document.

# Overall Description

## Product Perspective

We shall have a survey tool that can be carrying out mobile and web surveys for organizations that contract us to do so on their behalf. We shall be getting users to participate in fun question format which we anticipate should take no longer than 7 minutes. It will be a user friendly interface with a clear format. The color scheme will also be of high standard so as participants can be able to input their feedback without getting bored or disinterested after a short period of time. It will also have automated on research findings hence accuracy, reach out to majority of Uganda’s mobile and web users, weekly reports on industry insights through an interactive show on TV, Web and Radio, diverse service offering to multiple industries, share API to interact with clients systems and collaborative team software, brands can run video ads from app, localize surveys into Ugandan languages and user interface that can be customized using clients brand colors and logo.

We shall also localize surveys into major Ugandan languages so as we can get as many participants as possible.

## Product Functions

Carrying out mobile and web surveys for brands to ascertain accuracy on perception of services and products offered by them

Web App and Mobile App for customers who are primarily organizations

Generate reports for clients

Share API to interact with clients systems and collaborative team softwares

Also our app to be also easily integrated when using other APIs

Brands Can Run Video Ads From App

Customized Interface For Clients

## User Classes and Characteristics

General public who may have interest in using the system.

Ancywax that will act as the system administration.

Ancywax clients who will be able to create design and share survey with their correspondents.

## Operating Environment

The web based system shall be hosted on the world wide web. Users shall be able to access the system by using web browsers.

## Design and Implementation Constraints

Limited time due to parallel documentation and implementation.

Changing requirements.

## User Documentation.

Apart from the SRS, other documents that will be delivered with the end product include;

Software Design Documentation.

# External Interface Requirements

## 3.1. User Interfaces

The users shall interact with the system using web browser and android apps where they will have access to its Graphical User Interface.

## 3.2. Hardware Interfaces

The minimum hardware requirement is a computer with enough memory and processing power and a smartphone.

## 3.3. Software Interfaces

Windows, Linux and Mac operating systems can be used depending on the users’ choice. It also requires a mobile smart phone to run the mobile app.

**3.4.** Communications Interfaces

Communications will be through the World Wide Web.

# Main System Features

## 4.1. Create Survey

### 4.1.1 Description and Priority

This is a dynamic form creator that allows a user to create questions and select the type of answer the question requires. It has a high priority since the entire system revolves around this functionality.

### 4.1.2 Stimulus/Response Sequences

Use clicks on the “create survey button” that will be provided in the home page.

### 4.1.3 Functional Requirements

To enable user create a customizable questionnaire and share with correspondents.

## 4.2. View Responses to your Survey

### 4.2.1 Description and Priority

This is an interface that allows a user logged in to check the survey he/she has created before. They are displayed in tabular format. It has a high priority.

### 4.2.2 Stimulus/Response Sequences

A user clicks on “View other survey created by you” button.

### 4.2.3 Functional requirements

Display response to survey created by the logged in user.

# Other Nonfunctional Requirements

## 5.1. Performance Requirements

Since the application will be fetching web pages from a server, the response time for a particular request should not be greater than 3-4 seconds for a respectable internet connection speed.

Error handling should be implemented and the application should be able to handle all run time errors.

The application should be flexible for future enhancements, for example, the addition of new features.

## Safety Requirements

If there is extensive damage to a wide portion of the system due to catastrophic failure, such as a disk crash, the recovery method restores a past copy of the system files that was backed up to flash disk storage and reconstructs a more current state by reapplying or redoing the operations of committed transactions from the backed up log, up to the time of failure.

## Security Requirements

A user must log in as required when creating a survey and viewing previous analysis and later after the user is urged to logout using the logout button.

The system should be implemented using secure web development frameworks.

## Software Quality Attributes

5.4.1 Availabilit**y:** The system is always available for use since it is on a web server running 24 hours.

5.4.2 Correctness: The system should correctly perform all the requirements.

5.4.3 Maintainability**:** The testing phase which will include testing the complete application after implementation. Unit testing and functional testing will be a part of the testing phase. Thus the product will be thoroughly tested periodically and updated for each functional requirement and documented for its reliability.

5.4.4 Usability: As the system is easy to handle and navigates in the most expected way with no delays. In that case the system program reacts accordingly and traverses quickly between its states.

## Business Rules

Users who likes to design surveys must first log in and accept to become clients of Ancywax.

# Other Requirements

### Interactive Homepage

### Displaying Analysis page for users to view.

* + 1. **Carrying out demographic surveys**

# References

1. <https://geopoll.com>

2. <https://surveymonkey.com>