
Software Requirements Specification

for

Government Free Agriculture System

Version 1.0 approved

MIM Arfadh-21CIS0080

BASL Yasiru-21CIS0058

JAUU Jayakody-21CIS0216

Sabaragamuwa University of Sri Lanka

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1. Introduction

1.1 Purpose

This document outlines the requirements for conducting a needs assessment to evaluate the feasibility and design considerations for a government exempt agricultural system. This includes gathering data from various stakeholders in the agriculture sector, including the needs assessment to understand their perspectives on the challenges, opportunities and potential benefits of the government's liberalized agriculture system.

1.2 Document Conventions

The document was created in Microsoft Word with 'Times New Roman' font. Headings are 20pts font size, subheadings are 16pts, and content is typed using fixed font size 12pt with 1 line spacing. It sets the blanks of the document using the bold attribute. All pages are numbered, except the cover page; Numbers appear in the top right corner of the page. Each figure and data table is numbered.

1.3 Intended Audience and Reading Suggestions

This document is intended for all stakeholders involved in the Government Free Agriculture System needs assessment project, including:

Farmers (Individual and Organizations)
 Agricultural Experts (Researchers, Extension Agents)
 Government Officials (Agriculture Departments, Policymakers)
 Community Leaders (Rural Communities)

1.4 Project Scope

Gathering data from various stakeholders in the agriculture sector to understand their perspectives on the challenges, opportunities and potential benefits of the proposed government's liberalized agriculture system.

Analyze collected data to identify key insights and recommendations for agricultural system design and implementation.

Prepare a report outlining the findings of the needs assessment, including recommendations for policy makers and other relevant stakeholders.

Prepare an assessment report detailing stakeholder perspectives, challenges, opportunities and recommendations.

Presentation summarizing key findings and recommendations for stakeholders.

Data tables and figures illustrating relevant statistics and insights gathered during the assessment.

Farmers – interviews, surveys and focus groups to gather their perspectives on the proposed agricultural system.

Agricultural experts – obtain expert opinions and insights on the feasibility and potential impacts of the proposed system.

Government Officials- Consultation with relevant government agencies to understand policy implications and potential regulatory considerations.

Community Leaders – Engage with community leaders to gain an understanding of the socio-economic dynamics and community needs related to agriculture.

1.5 References

[1] World Bank. (2020). Agriculture and Rural Development. Retrieved from <https://www.worldbank.org/en/topic/agriculture/overview>

[2] Food and Agriculture Organization of the United Nations. (2020). Sustainable Agricultural Development. Retrieved from <http://www.fao.org/agriculture/land-water/land-management/land-resources-planning-toolbox/category-details/en/c/345245/>

[3] United Nations Development Programme. (2020). Strengthening Agricultural Systems. Retrieved from <https://www.undp.org/content/undp/en/home/sustainable-development-goals/goal-2-zero-hunger/targets/strengthen-the-capacity-of-domestic-financial-institutions-and-regulatory-systems-to-address-the-needs-of-small-scale-food-producers/>

2. Overall Description

2.1 Product Perspective

The system being developed through this project will act as a platform to bridge the gap between the stakeholders in the agriculture sector, the Government's Free Agriculture System. This system will enable rapid information sharing, collaboration and problem solving.

2.2 Product Functions

1. Stakeholder Engagement

Develop a recruitment plan to identify and engage with diverse stakeholder groups across different regions, farm sizes and agricultural practices. Develop tailored negotiation guidelines for each stakeholder group with focus.

Farmers- Current Challenges, Resource Constraints, Expected Support Systems in GFAS.

Agricultural experts- technical feasibility of GFAS, potential approaches and resource requirements. Government officials- policy implications of GFAS, potential funding mechanisms and administrative considerations.

Community Leaders- Social and Community Impacts, Infrastructure Needs and Potential Challenges of GFAS.

2. Assessment of farmers' needs

Design a survey Google Form to collect information

There, age, location, size of farm, type of agriculture, Addressing current challenges, production issues, access to resources, financial constraints, market access.

Gather data from farmers, agricultural experts, government officials and community leaders on current challenges in the agriculture sector.

Setting requirements and preferences for potential support systems within GFAS.

Analyze collected data to identify trends and patterns in stakeholder needs and perspectives.

Generate reports summarizing the findings of the needs assessment.

2.3 User Classes and Characteristics

Use of reports by project managers to make informed decisions about next steps in the GFAS development process.

Data collection specialists use the requirements to develop data collection instruments and conduct interviews and surveys.

Data analysts are required to analyze collected data and identify key insights.

Agricultural experts use findings to inform technical considerations in GFAS.

2.4 Operating Environment

Online surveys

Mobile Apps (if applicable)

Personal interviews

Group discussions.

2.5 Assumptions and Dependencies

Stakeholders are willing to participate in interviews, focus groups and surveys.

Required resources.

e.g. translators, internet access