

# **PROJECT PROPOSAL FOR MINI PROJECT**

**TITLE:**

**RURAL ECONOMIC DEVELOPMENT THROUGH THE INFORMATION  
TECHNOLOGY.**

**(Introducing chatbot using IT for private farming organization)**

**RED Builders**

**Cluster-06**

**Group no-02**

**Department of IT**

**Faculty of Computing**

**ICST UNIVERSITY PARK**

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## Introduction

Bridging the Gap Between Rural Farmers and Global Markets In the picturesque landscapes of Sri Lanka's eastern coast, the city of Punnani stands as a beacon of hope and a testament to the untapped potential of rural agriculture. Our groundbreaking project, "Rural Economic Development through Information Technology," aims to revolutionize the way local farmers connect with consumers, both domestically and internationally, ushering in a new era of prosperity for rural communities.

### 1.1 Project Background:

Crescent Farm Tec (pvt) Ltd, incorporated in 2011, was founded with the vision of creating a sustainable and integrated farming operation in the tropical region of Kinniya. The farm began with a focus on mango cultivation, utilizing the region's favorable climate for growing high quality tropical fruits. Over the years, the company diversified its operations to include poultry farming, dairy production, and other animal products, becoming a fully integrated agricultural business. With its strategic location in Katkuli, Soorangal Crescent Farm Tec has established a strong presence in both the local and regional agricultural markets, emphasizing quality and sustainability in all its operations.

## **1.2 Problem Identification:**

Nowadays agriculture farm are facing many challenges and issues. such as technical issues, weather conditions, maintenance issues, export, import issues, water scarcity, pest and disease, market fluctuations, social challenges. Although the agricultural farm is performing well overall, successful y navigating these common challenge faced by that industry today. However one significant gab has been identified: exporting inputs and procuring raw material. We conducted a thorough SWOT analysis, assessing the agricultural farm's strength, weekness, opportunity and threats.

### **1. Strength:**

- Visionary leadership with a forward thinking approach.
- Cost-effective and skilled labor force.
- A geographically advantageous location ideal for farming.
- Reduced dependence on weather conditions due to stable local climate.

## **2. Weakness:**

- Limited access to advanced farming technology, restricted by the availability in the country and financial constraints.
- Limited distribution networks, which restrict market reach.
- Lack of automation for efficient livestock management and tracking.
- Inefficient labor management systems, leading to heavy reliance on the owner for day-to-day operations.

## **3. Opportunities:**

- Expansion into sustainable and organic farming practices, capitalizing on the growing demand for eco-friendly products.
- Investment in smart farming technologies such as sensors, automation, and data driven decision making.
- Establishing partnerships with international buyers to tap into global markets for fresh and processed products.

## **4. Threats:**

- Market fluctuations affecting product pricing and profitability.
- Rising operational expenses due to inflation and political instability.
- Lack of governmental support, bureaucratic inefficiencies and corruption hindering smooth operations.

## 1.3 Aims and objective

### **Aim:**

The aim should provide a broad, high-level description of the chatbot's overall purpose. It usually addresses the question, "What is the general goal of this project?"

### **Objectives:**

#### **1.Problem Identification:**

We have conducted a targeted analysis of the agricultural system and pinpointed its most significant challenge.

#### **2.Swot Analysis:**

"The organization of elements has been categorized by \*Strengths, Weaknesses, Opportunities, and Threats\* using a \*SWOT Analysis approach\*.



### **3. Finding the solution:**

**"Analyzing the identified problems and developing appropriate solutions for them" or "Conducting an analysis of the identified problems and determining suitable solutions for each."**

### **4. Project Report and presentation:**

**"Presenting the selected organization's issues, decisions, and countermeasures through a brief report and presentation."**

### **5. Implementation:**

**"Taking steps to technically implement the selected solutions based on the identified problems."**

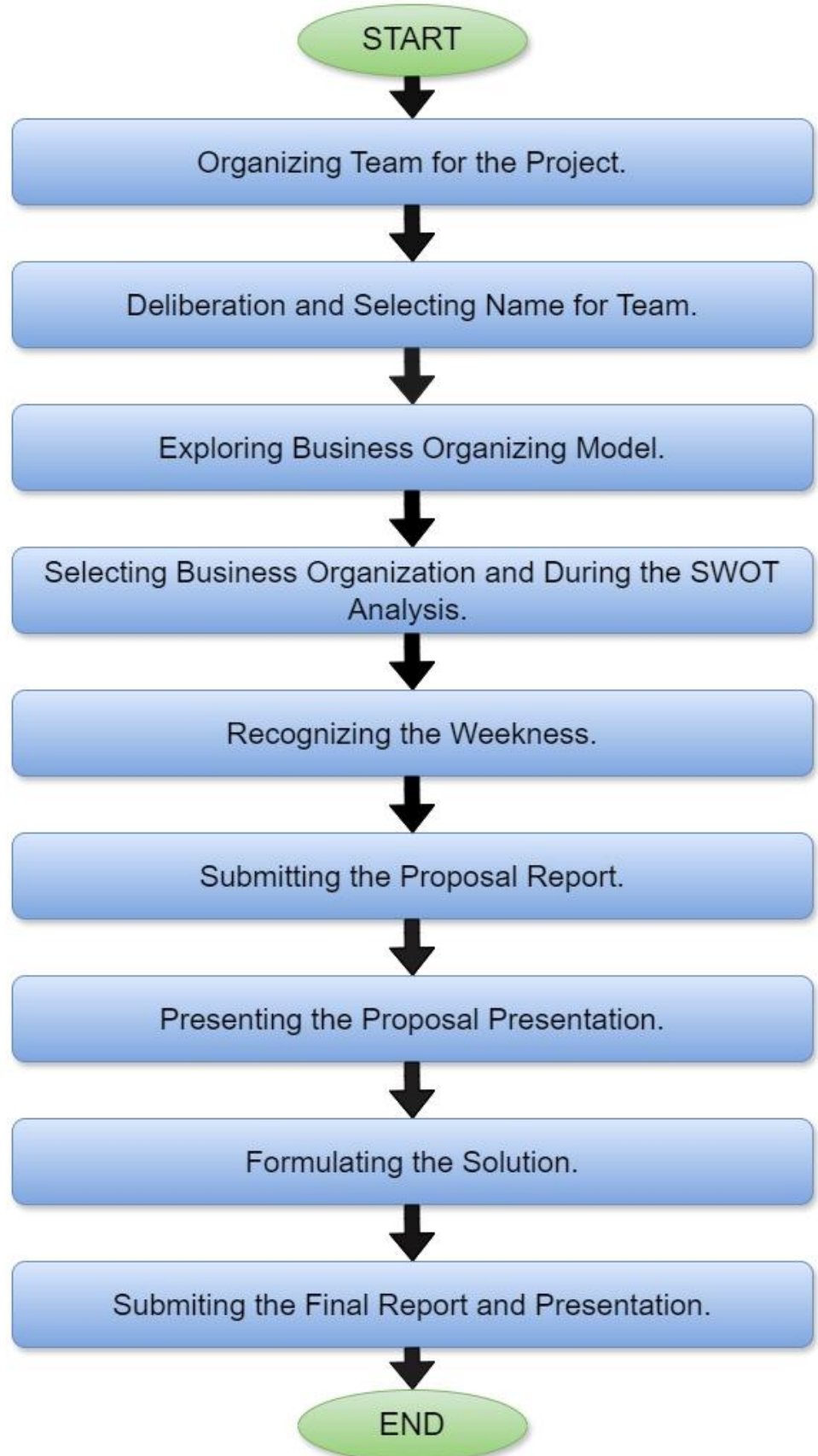
## 2. Project Description:

Farming is the practice of cultivating land, raising animals, and producing food and other products to sustain communities and economies. As we explore the world of farming, we will examine the importance in feeding the communities and the ongoing efforts to create a resilient and sustainable agricultural future.

It is for this reason that we chose the topic “Rural Economic Development through IT” for our project in agricultural farming. For this we have selected a medium sized agricultural farm (Crescent Farm Tec (pvt)(Ltd). During the discussion with the organization, we found that the major problem was exporting inputs and procuring raw materials. Considering this we chose a resolution to create an organization as a rural economic system. In that, a small-scale farming village (Punanai) will create a place to export people’s input and organically.

produced raw materials to destinations where they are needed. Apart from that, we are also going to provide a technical chat bot to the organization. In that they will discuss about the inputs, raw materials, trial crops and prices, methods of transportation required by the farmers and dealers and more...

### 3. Methodology:



## **4.Resources:**

### **1. Software Resources:**

- ✓ Drawio
- ✓ Chatgpt
- ✓ MS Word
- ✓ Adobe Acrobat

### **2. Hardware Resources:**

- ✓ laptops
- ✓ Mobile Phones
- ✓ Printer

## 5.Individual Contribution:

NAME	CONTRIBUTION
<u>R.F.Shimlah</u>	<ul style="list-style-type: none"> <li>Directed the project (Team lead).</li> <li>Collected necessary information.</li> <li>Created a questionnaire and interviewed the manager.</li> <li>Created the report document.</li> </ul>
M.R.Reeha	<ul style="list-style-type: none"> <li>Collected other information.</li> <li>Photographed the necessary information.</li> <li>Co-ordinated for the project.</li> </ul>
F.F. sahya	<ul style="list-style-type: none"> <li>Consulted with the project supervisor and gathered relevant information.</li> <li>Helped creating the report document.</li> <li>Drew the methodology.</li> </ul>
M.A.F.Aftha	<ul style="list-style-type: none"> <li>Looked into the problems faced by the organizations, did research on them and found some solutions.</li> </ul>
T.F.Afriha	<ul style="list-style-type: none"> <li>Edited some files</li> </ul>
M.F.F.Sifna	<ul style="list-style-type: none"> <li>Looked into the problems faced by the organizations, did research on them and found some solutions.</li> </ul>
S.T.F.Hana	<ul style="list-style-type: none"> <li>Looked into the problems faced by the organizations, did research On them and found some solution.</li> </ul>
U.K.R.Maduri	<ul style="list-style-type: none"> <li>Looked into the problems faced by the organizations, did research On them and found some solution.</li> </ul>
M.R.J.Begam	<ul style="list-style-type: none"> <li>Looked into the problems faced by the organizations, did research On them and found some solution.</li> </ul>
A.R.F.Simha	<ul style="list-style-type: none"> <li>Looked into the problems faced by the organizations, did research On them and found some solution.</li> </ul>
W.Nivedhika	<ul style="list-style-type: none"> <li>Conducted SWOT analysis</li> </ul>

M.F.F.Hansa	<ul style="list-style-type: none"> <li>• Conducted SWOT analysis.</li> <li>• Carrier out the threats analysis.</li> </ul>
A.K.P.Sahama	<ul style="list-style-type: none"> <li>• Conducted SWOT analysis.</li> <li>• Carrier out the threats analysis.</li> </ul>
M.K.F.S.Sadha	<ul style="list-style-type: none"> <li>• Conducted SWOT analysis.</li> <li>• Carrier out the threats analysis.</li> </ul>
A.M.Amani	<ul style="list-style-type: none"> <li>• Resource Sharing</li> <li>• Access to some advice</li> </ul>
M.M.F.Sasna	<ul style="list-style-type: none"> <li>• Conducted some research</li> </ul>
M.N.Nisadh	<ul style="list-style-type: none"> <li>• Conducted some research</li> </ul>
S.F.Sasna	<ul style="list-style-type: none"> <li>• Looked into the problems faced by the organizations, did research On them and found some solution.</li> </ul>
H.M.Z.Hana	<ul style="list-style-type: none"> <li>• Conducted SWOT analysis.</li> <li>• Carrier out the threats analysis.</li> </ul>