



Parshvanath Charitable Trust's
A. P. SHAH INSTITUTE OF TECHNOLOGY, THANE
(All Programs Accredited by NBA)

Department of Information Technology



अन्नदाता: A Farmer's Portal

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1. Introduction

- Problem Identified :
 - In today's world along with ongoing pandemic crises farmer has been facing a lot of issues.
 - Some of which identified are:- Cope with climate change, biodiversity loss, soil erosion, market prices of crops etc.
 - Staying resilient against the global economic factor becomes a task for them.
 - All-in-all there are various sector in which farmer has been facing issues since ages.

1. Introduction

Solution Proposed :

- Addressing the above mentioned issues the , project is designed with an aspect to help farmer in various sectors, Here in, we would be designing a web app that will analyse all the above mentioned conditions and provide them the analysis in simpler and there native language. Till now we have completed below mentioned modules an provided a multilingual support to the website, developed a chatbot to solve farmer queries.

Modules:

- Current Weather Conditions.
- Government Schemes.
- Chatbot

2. Literature Review

Sr. No.	Authors	Paper Tittle	Methodologies	Findings
1	Kiran Moraye, Arun Pathvte, Suyog Nikam	Crop Yield Production Using Random Forest Algorithm for Major Cities in Maharashtra	Prediction of the crop yield using Random Forest Algorithm	This Algorithm considers the geographic conditions and generate the list of the crops that could be the best practise in that region.
2	Kanakamedala Deepika, Veeranki Tilekya, Jatroth Mamatha, Subetha T	Jollity Chatbot- A contextual AI Assistant	This Chatbot suggest people with articles,videos and images.Providing instant replay when people want to talk to someone during their tough times.To engage the users with some fun videos and s ongs.	We would be considering this and the technology used behind Jollity Chatbot and modify and upgrade to create our own chatbot for farmers.

3. Objectives

- 1.To develop an chatbot to solve the queries of the farmers.
- 2.To enable Indic language on the conversation system using Google Translate API.
- 3.To provide a multi-lingual support to the portal.
- 4.To notify the farmers about the red flags in weather forecasting.
- 5.To make them aware about the different Govt. Schemes that are beneficial to them and notify them everytime the government launches a new scheme.

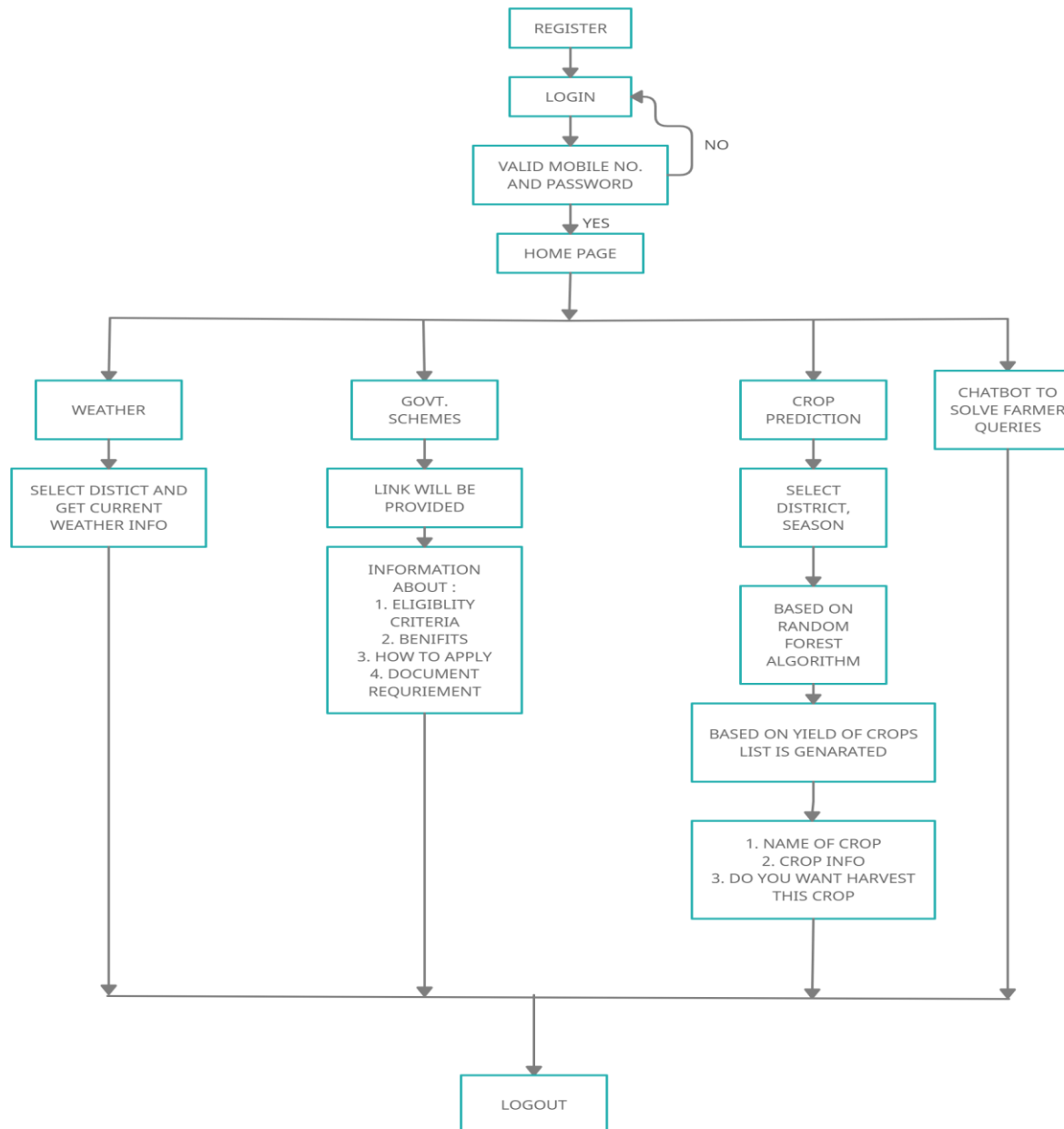
4. Scope

- Can help the farmers by enabling weather prediction system .
- Can provide the farmers with legitimate information about the government schemes.
- A prediction system that would help farmers about the best yielding practices.
- Can enable the farmers to post their queries with the help of chatbot.

5. Technology Stack

1. Python
2. Django
3. Database: SQLite3
4. Rasa for Chatbot

6. Block Diagram to propose project Idea



8. References

Kiran Moraye, Aruna Pavate, Suyog Nikam and Smit Thakkar,” Crop Yield Production Using Random Forest Algorithm for Major Cities in Maharashtra”, International Journal of Innovative Research in Computer Science & Technology (IJIRCST), March 2021.

[Link to pdf](#)

Kanakamedala Deepika, Veeranki Tilekya, Jatroth Mamatha, Subetha T,” Jollity Chatbot- A contextual AI Assistant’, IEEE, November 2020.

Prof. Yashaswini. D. K, Hemalatha. R, Niveditha. G,” Smart Chatbot for Agriculture”, International Journal of Engineering Science and Computing, May 2019

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Thank You...!!