WiT-ACE Hackathon 2021

Agri-Assist

Sustainability Goal - Zero Hunger.

Team – the IncrEdibles

- Leena Bhandari
- Prajakta Patankar
- Shweta Awasthi
- Sudesh Kamble
- Sumit Jamdar

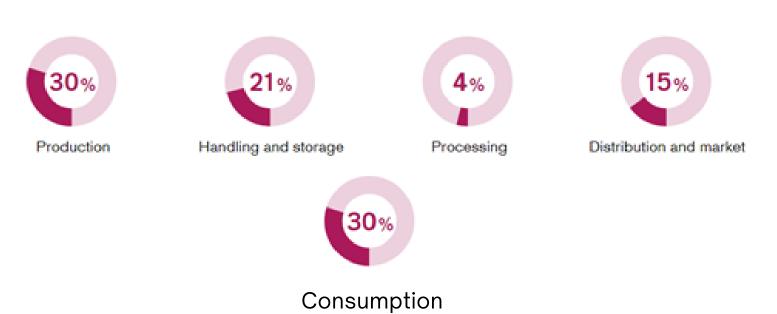


The Problem?

Production Loss accounts to almost 30%, farm-produce loss caused due to complex mix of factors that include:

- Field stability
- Weather
- Pests
- Plant diseases
- Labour availability
- Market prices
- Buyer specifications

Distribution of total food loss and waste across the supply chain



The Idea - Minimizing Farming Production Loss

Our idea revolves around reducing the food loss caused by crop diseases and pests and increase the crop output by suggesting the best crop for each farm land, based upon inputs like, land area, location that deduces the climatic conditions, soil health, etc.

How can technology help?

- Suggestion of Optimum crop options for the geographical area and weather
- Disease Forecasting
- Prevenative measures and Recommendations



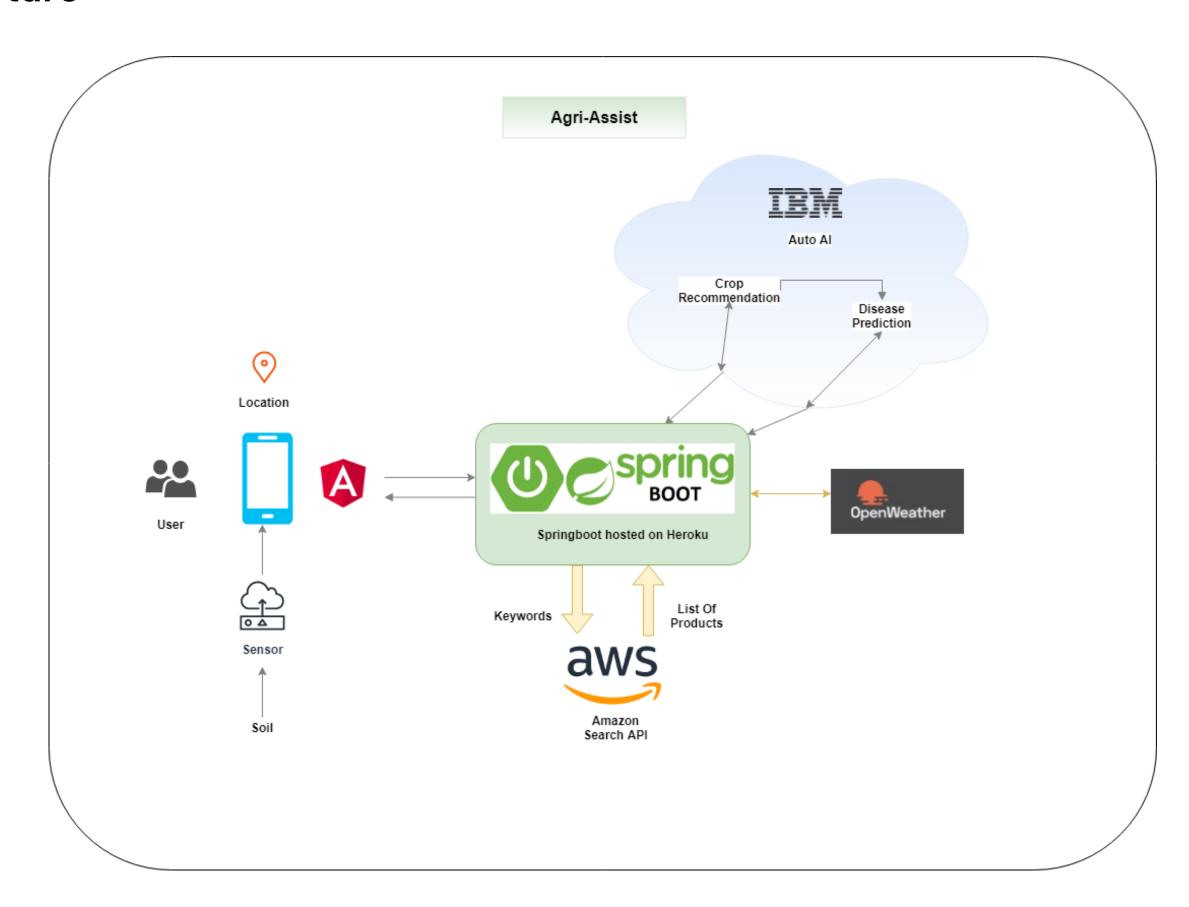








Technical Architecture



FUTURE SCOPE



LOCALIZATION

Regional language support to ensure maximum reach



IOT

IOT based sensors to capture the soil profile and provide accurate inputs to the application



DATA

Acquiring diverse and refined data for diease forecasting



OFFLINE STORES

Extending product recommendation to offline stores.



PRE & POST CARE

Including Pre and Post Crop specific harvest care.



FIELD STABILITY

Covering filed stability factor under prediction report