

TECHSOW

INTEGRATED CROP AND SOIL MONITORING SYSTEM

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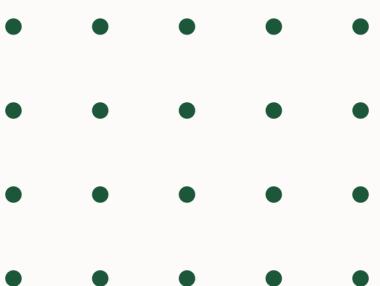


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Problem Statement

Farmers face critical challenges in agriculture due to their inability to accurately detect soil contents and plant diseases. This lack of precision leads to improper fertilization, delayed disease identification, and erosion issues. Inadequate moisture detection further complicates irrigation management. Innovative solutions are urgently needed to empower farmers with precise information for optimal agricultural practices.



LITERATURE

The Crop and Soil Monitoring System (CSMS) is a cutting-edge agricultural solution that harnesses technology to optimize crop health and yield. Through real-time IoT-enabled soil nutrient monitoring, AI-driven disease detection from smartphone images, soil stability assessment using smartphone accelerometers, and precise moisture content analysis, this system empowers farmers with actionable insights. By integrating predictive analytics and weather data, it not only enhances decision-making but also offers timely alerts and recommendations. This comprehensive approach to precision agriculture not only increases productivity but also reduces resource waste, contributes to sustainable farming practices, and has the potential to revolutionize modern agriculture.

Objectives



Disease Detection



Soil Stability



Soil Moisture Content



Soil Nutrition Content



Real time monitoring



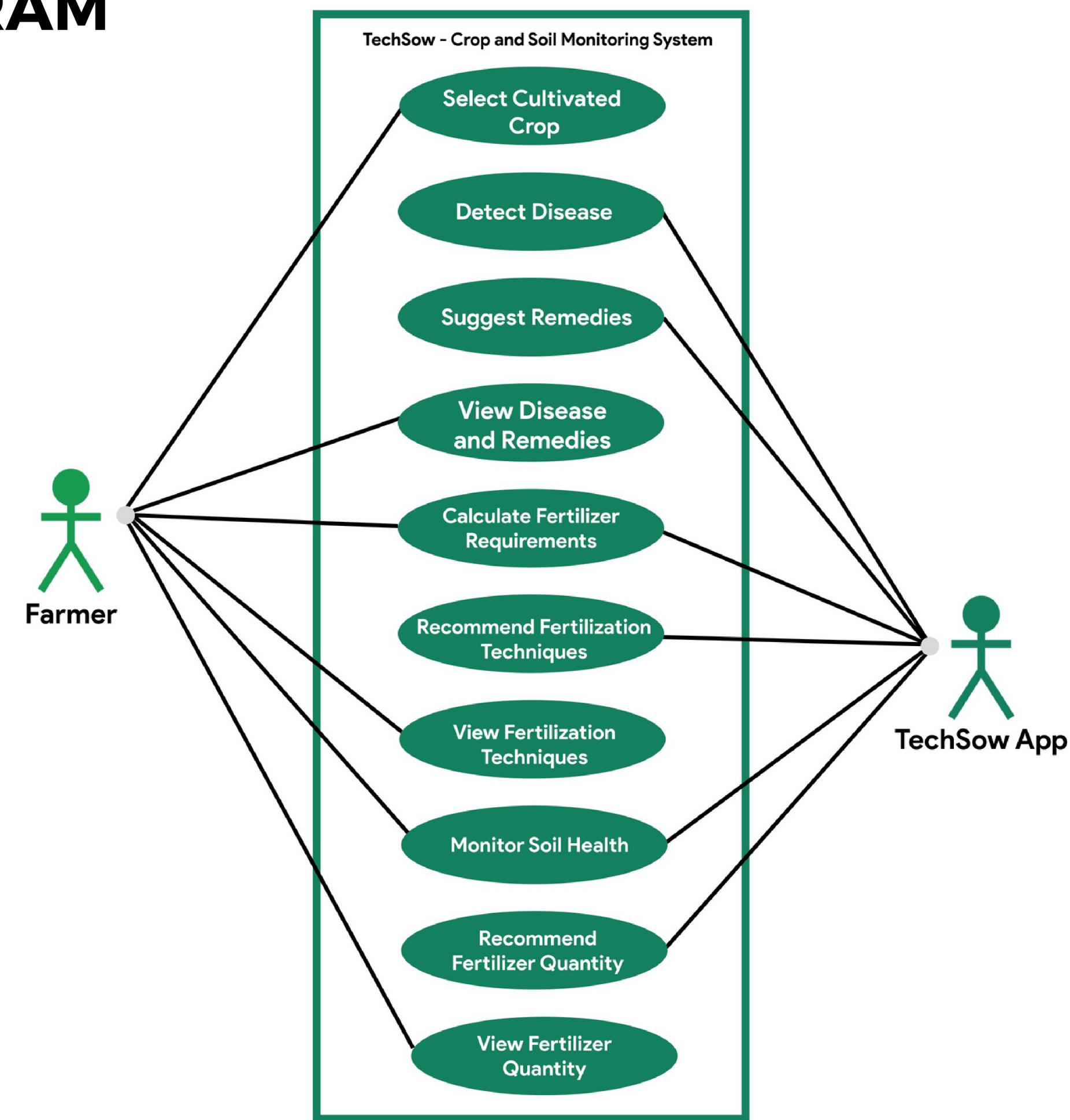
irrigation recommendations

CONCLUSION

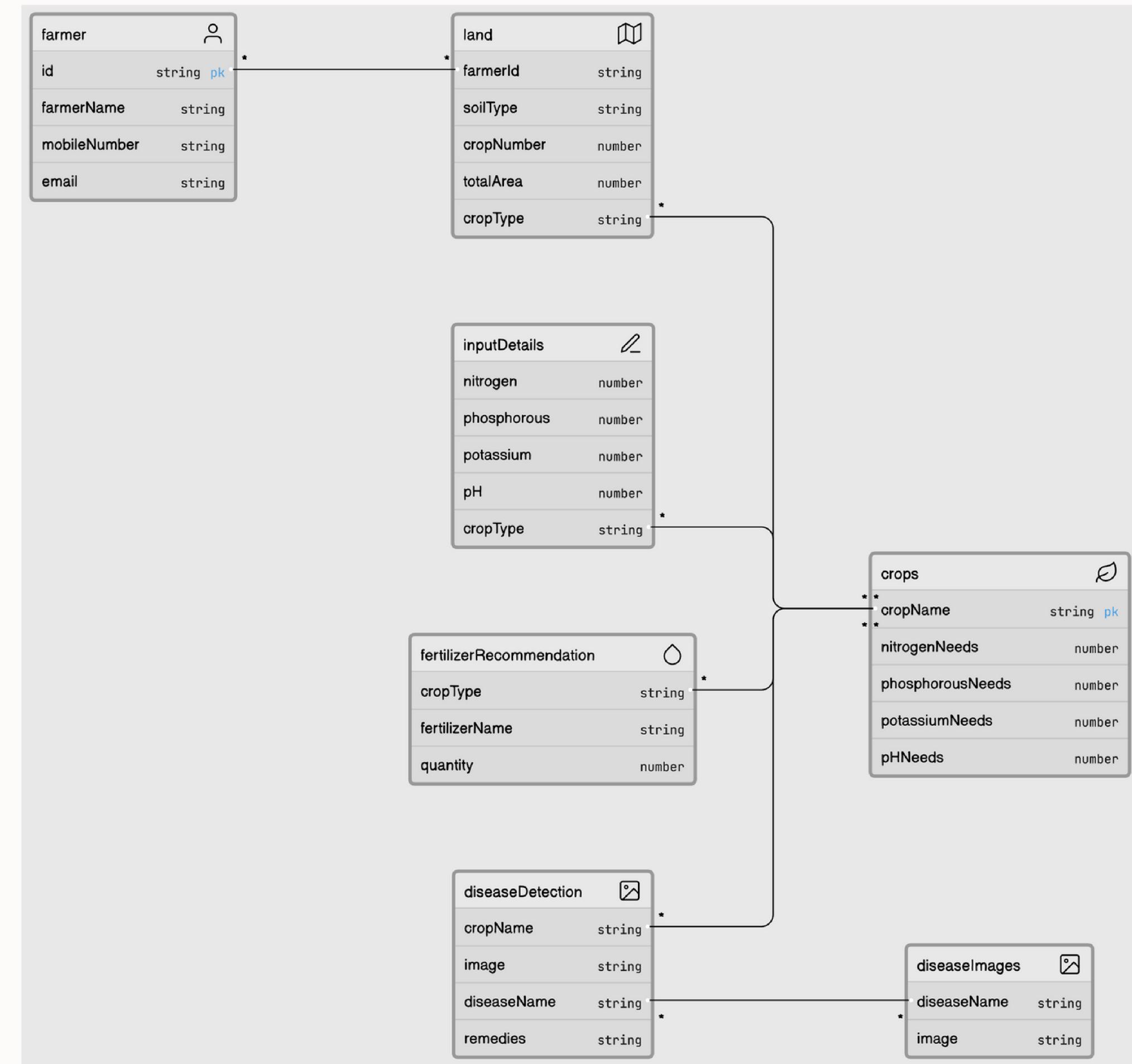
In conclusion, addressing the challenges faced by farmers in soil content detection, disease identification, and soil stability assessment is imperative for sustainable agriculture. Innovative solutions leveraging technology can revolutionize farming practices and enhance crop yield while conserving resources. Empowering farmers with accurate information is key to ensuring a resilient and productive agricultural future.

**THANK
YOU**

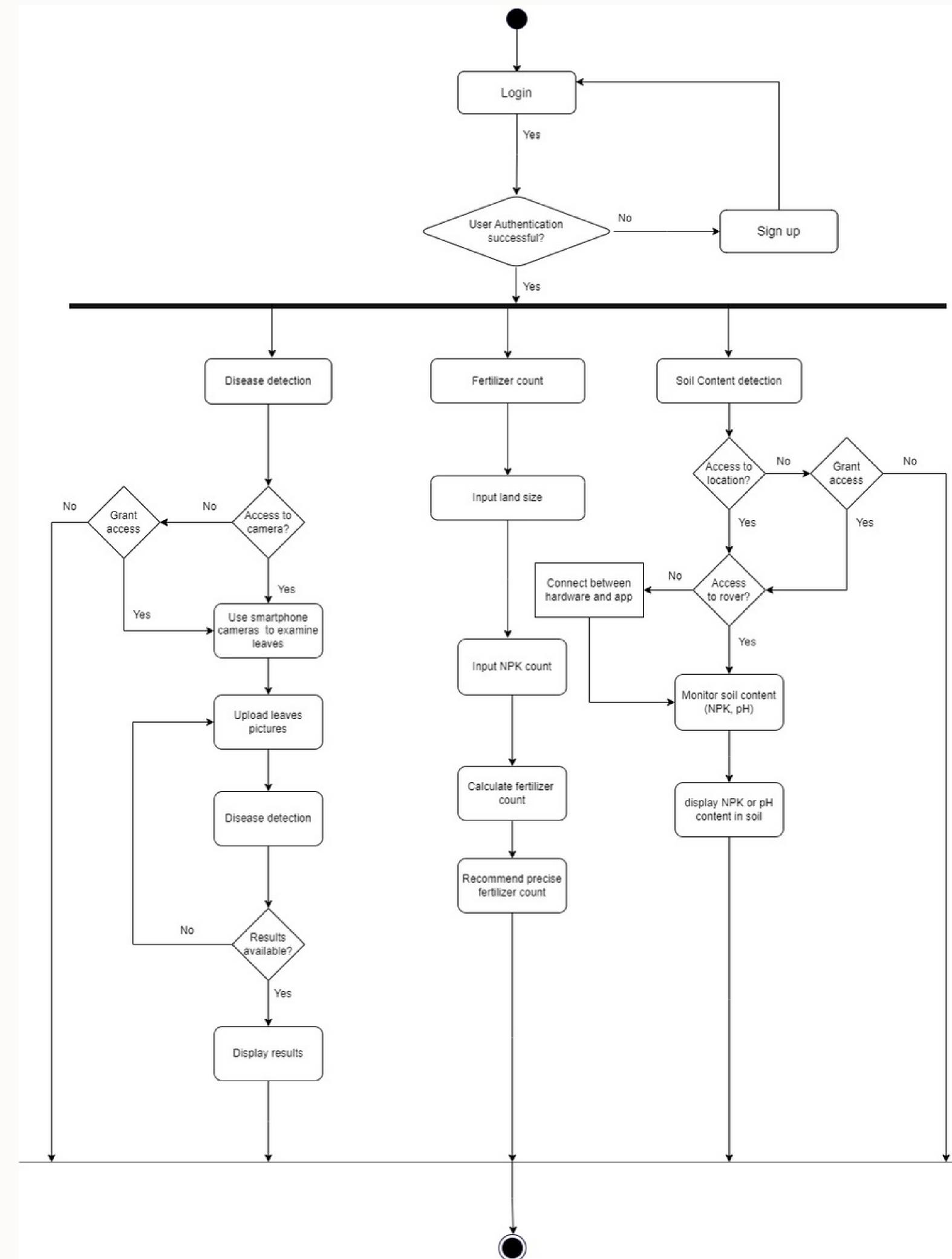
USE CASE DIAGRAM



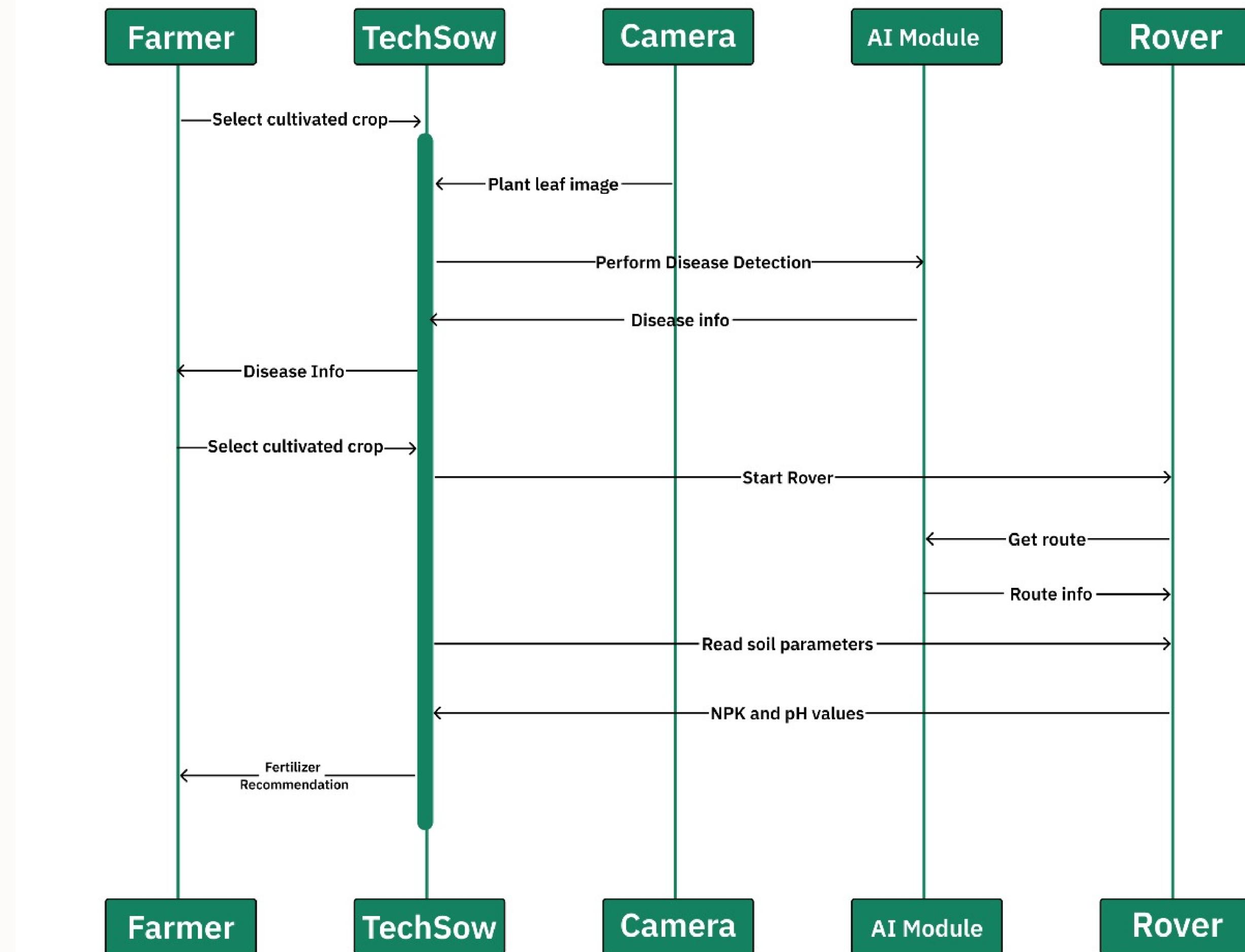
SCHEMA DIAGRAM



ACTIVITY DIAGRAM



SEQUENCE DIAGRAM





DESIGN

TITLES

CONTENT

PROBLEM STATEMENT

LITERATURE SURVEY-how much paper referred to be said also about the algo and reasons

OBJECTIVE

REQUIREMENT ANALYSIS

DESIGN DIAGRAMS

MODERN TOOLS USED-including project repository

COST ESTIMATION ENTIRE PROJECT

GANTT CHART

PROJECT FILE

