



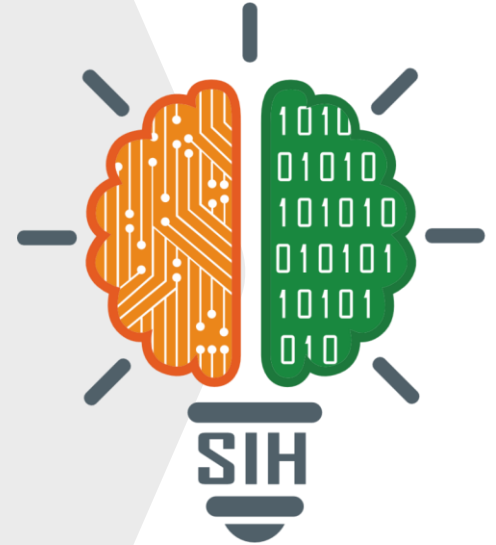
SMART INDIA HACKATHON 2024

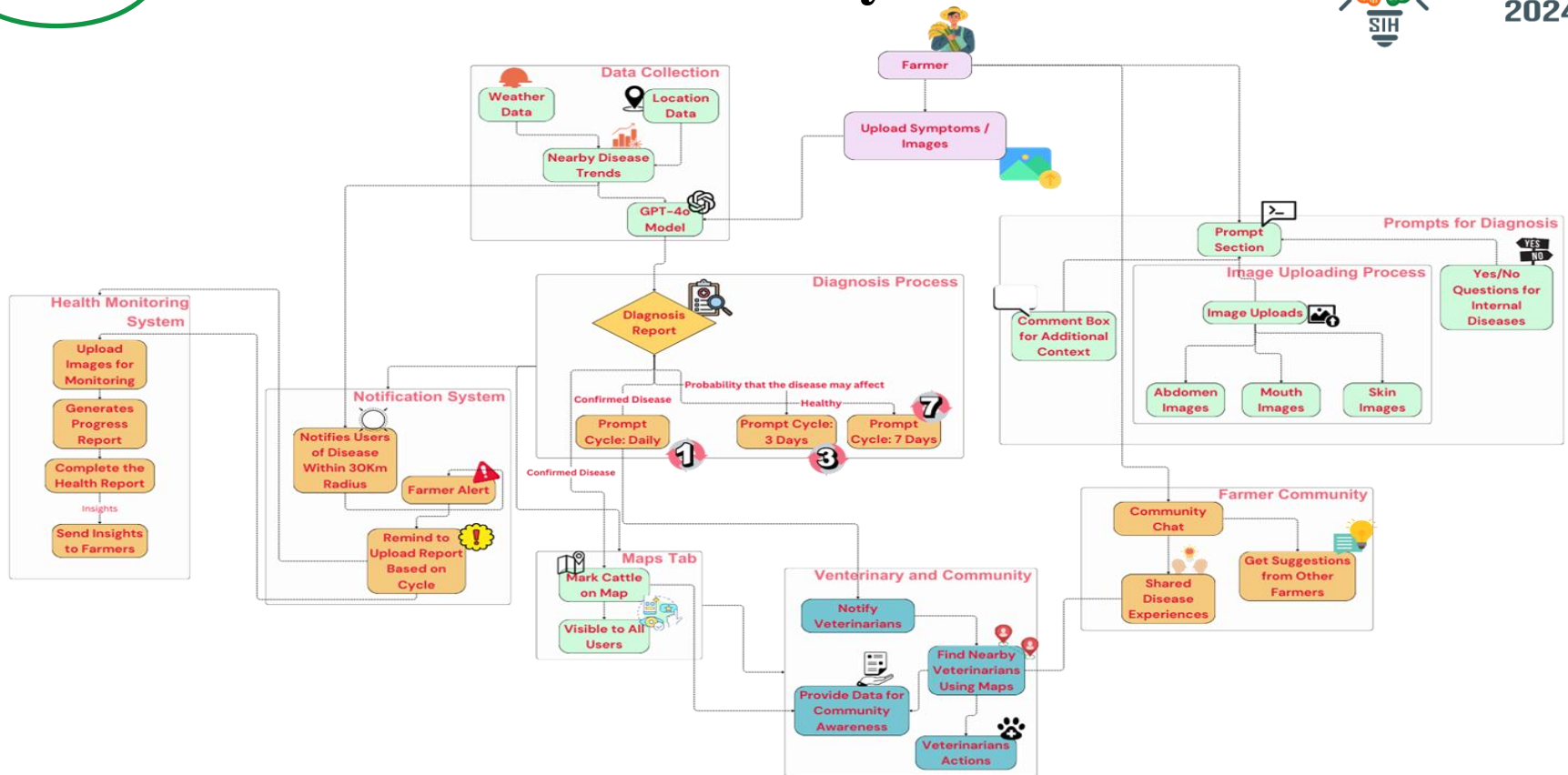


SMART INDIA
HACKATHON
2024

Farmers Disease Diagnostic/Reporting Portal - Mobile Portal AI Based

- Problem Statement ID – **1673**
- Problem Statement Title – **Farmers Disease Diagnostic/Reporting Portal - Mobile Portal AI Based**
- Theme – **Agriculture, FoodTech & Rural Development.**
- Team Leader– **Sam Anderson Y**
- Team ID – **MCA001**
- Team Name (Registered on portal) – **Neural Matrix**





EXPECTED OUTCOME

Farmers Disease Diagnostic/Reporting Portal - Mobile Portal AI Based

Enhanced Disease Diagnosis

Timely Reporting and Intervention

Increased Access to Expert Knowledge

Improved Farm Productivity

Data Collection and Analysis

Cost-Effective Disease Management

Empowerment and Education of Farmers

Integration with Existing Surveillance Systems

Community Engagement and Support

Community Chat

Hari
Dec 10, 2024 at 12:54 PM
What is mastitis?

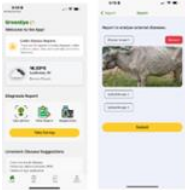
1 2



Kavi
Use of 50 g turmeric powder, 20-25 g lime/lemon juice, 250 g Aloe vera and lemon juice of two fresh lemon, mix it thoroughly to make a paste/150-200 ml of water and apply externally over the affected part of udder. Repeat 10 times a day up to 5 days.

Livestock Disease Suggestions

- Foot and Mouth Disease (FMD)
- Brucellosis
- Pasteurella multocida (PPR)
- Hemorrhagic Septicemia
- Anthrax
- Blue Tongue Disease
- Black Quarter (BQ)
- Swine Fever
- Avian Influenza
- Newcastle disease



- Prevention Steps:**
1. Isolate infected animals to prevent spread.
 2. Vaccinate unaffected livestock.
 3. Implement vector control to reduce spread by insects.
 4. Maintain cleanliness in living areas.



The app notifies veterinarians automatically in severe cases, enabling prompt interventions with real-time location tracking.

The Veterinarians can view the detailed report of the farmer's cattle and give suggestions and appointments according to it

Early detection and effective disease management enhance cattle health, leading to increased productivity and profitability.

Farmers' health reports and real-time disease data are analyzed for regional trends and visualized for decision-making.

The app minimizes costs by reducing reliance on physical vet visits, offering preventive measures and remote solutions.

Farmers receive PDFs and resources on natural remedies and preventive practices, building their self-reliance and knowledge base.

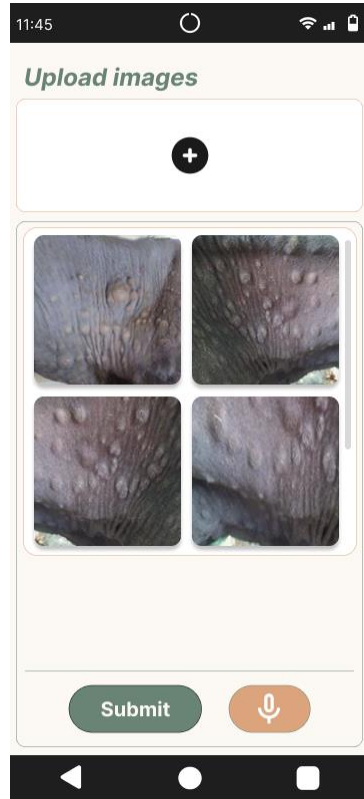
The app integrates state and district-level livestock data, enhancing existing systems with real-time insights and visualizations.

The platform connects farmers and veterinarians, fostering collaboration through shared data, visualizations, and tracking tools.

AI algorithms analyze farmers' uploaded cattle images and health data, accurately identifying diseases for effective treatment.

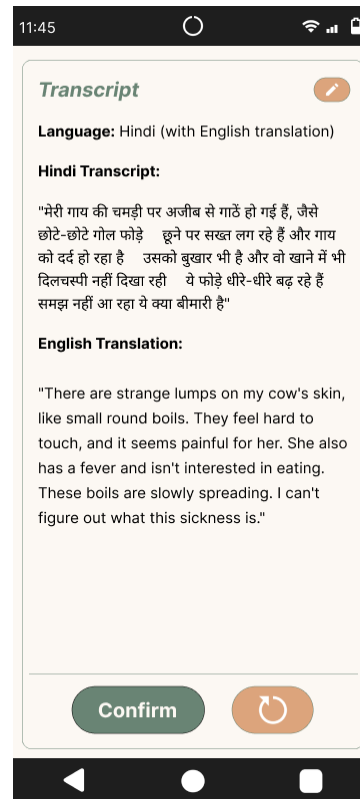


FEASIBILITY AND VIABILITY



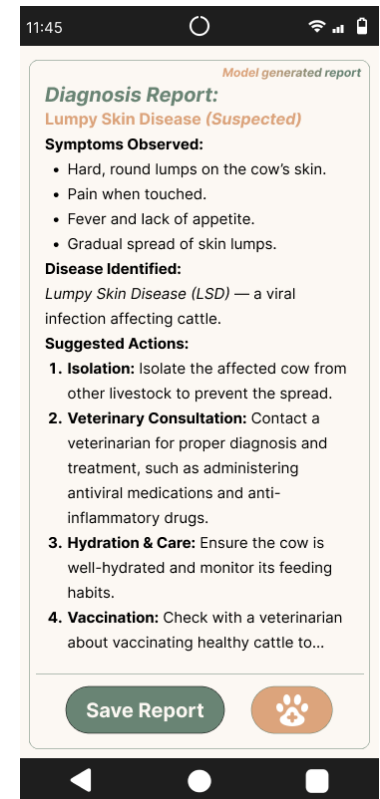
1. GPS enabled image uploads allow precise location tracking for veterinary assistance.

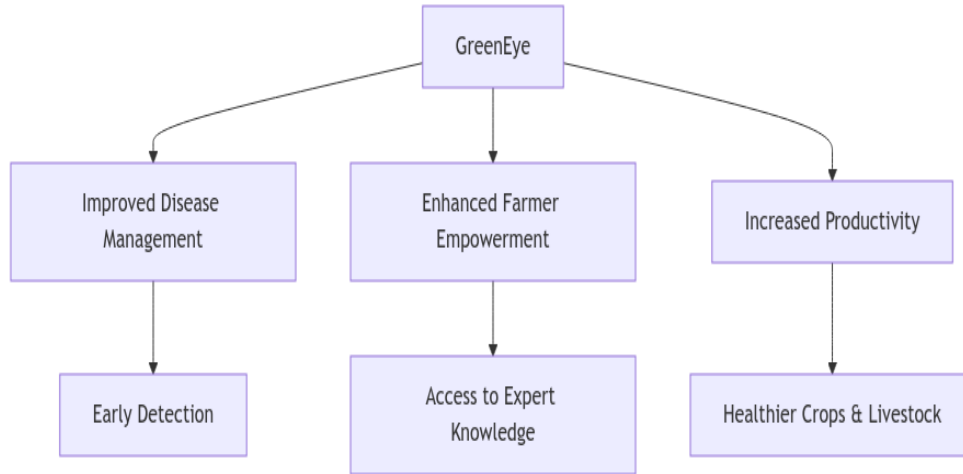
2. Voice simplifies reporting, reducing the need for text based interactions.



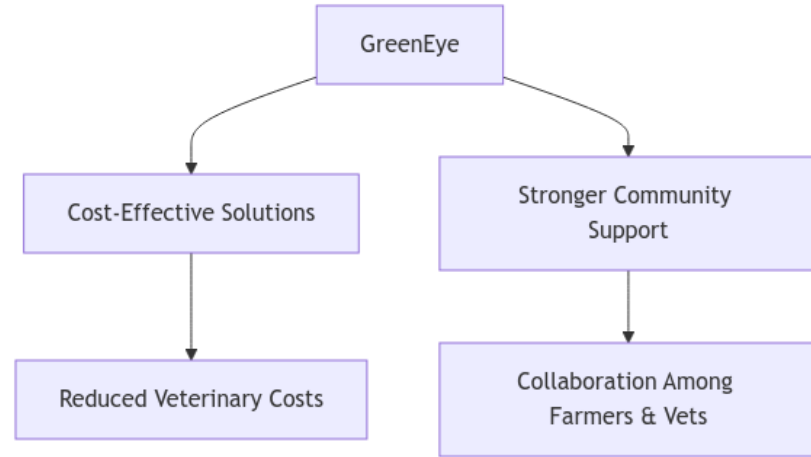
1. User friendly, more like a farmer friendly interface that ensures high adoption among farmers.

2. Fast veterinary notifications improves response times, enabling timely actions for better livestock and crop health.





GreenEye helps farmers catch diseases early and make better decisions for their farms.



GreenEye builds a strong farming community and helps farmers earn better.



RESEARCH AND REFERENCES



References

<https://www.scirp.org/journal/paperinformation?paperid=120977>

<https://krishikosh.egranth.ac.in/server/api/core/bitstreams/bd061c34-9e2e-469d-bd09-dd149c924850/content>