

AgriSmart

Smart Solutions for Climate-Resilient Agriculture

Leveraging Technology to Mitigate Climate Change Impacts



Meet The Creators



Chan Zi Hao
Administrator Head/Resource Lead



Rui Yi Gan
Project Manager/Developer



Alvin Aw Yong
Creative Designer/Developer



Guo Chenrui
Technical Executive

"Together, our diverse skill sets and shared passion for promoting efficient agricultural practices drive us to create an app that empowers users to optimize their farm operations"

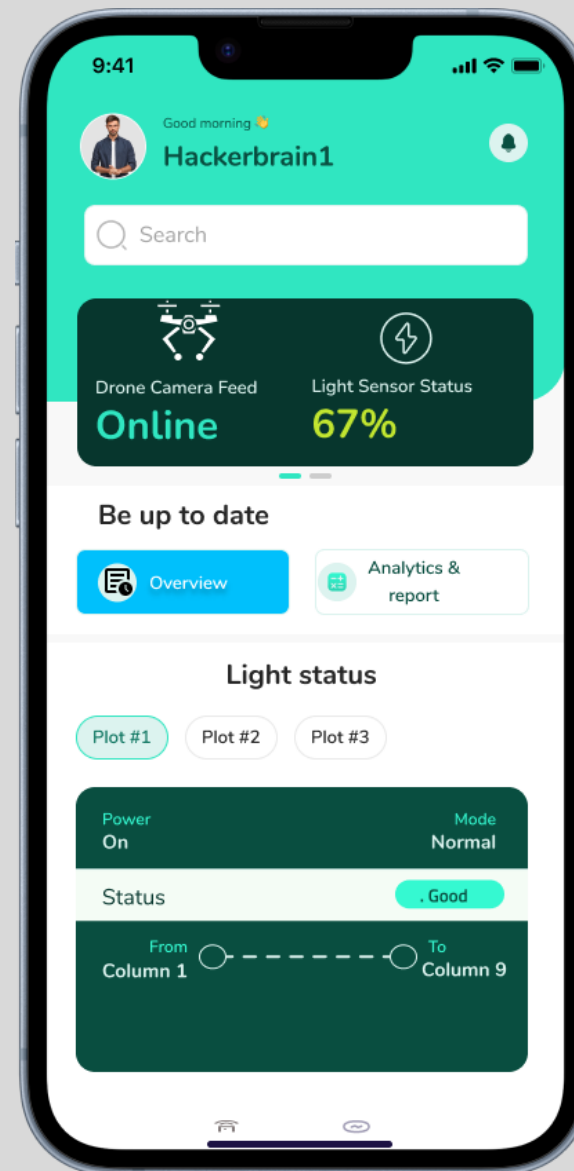
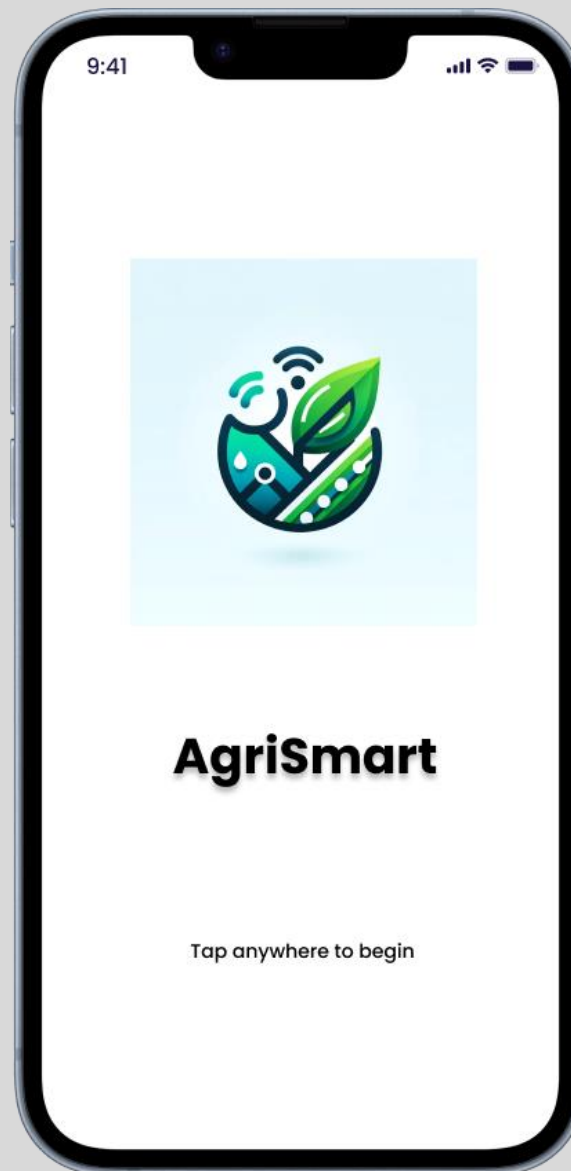
Our Defined Problem Statement

**Farmers faced challenges in
monitoring and managing crop
health, soil conditions &
environmental factors, leading to
suboptimal yields and resource use**



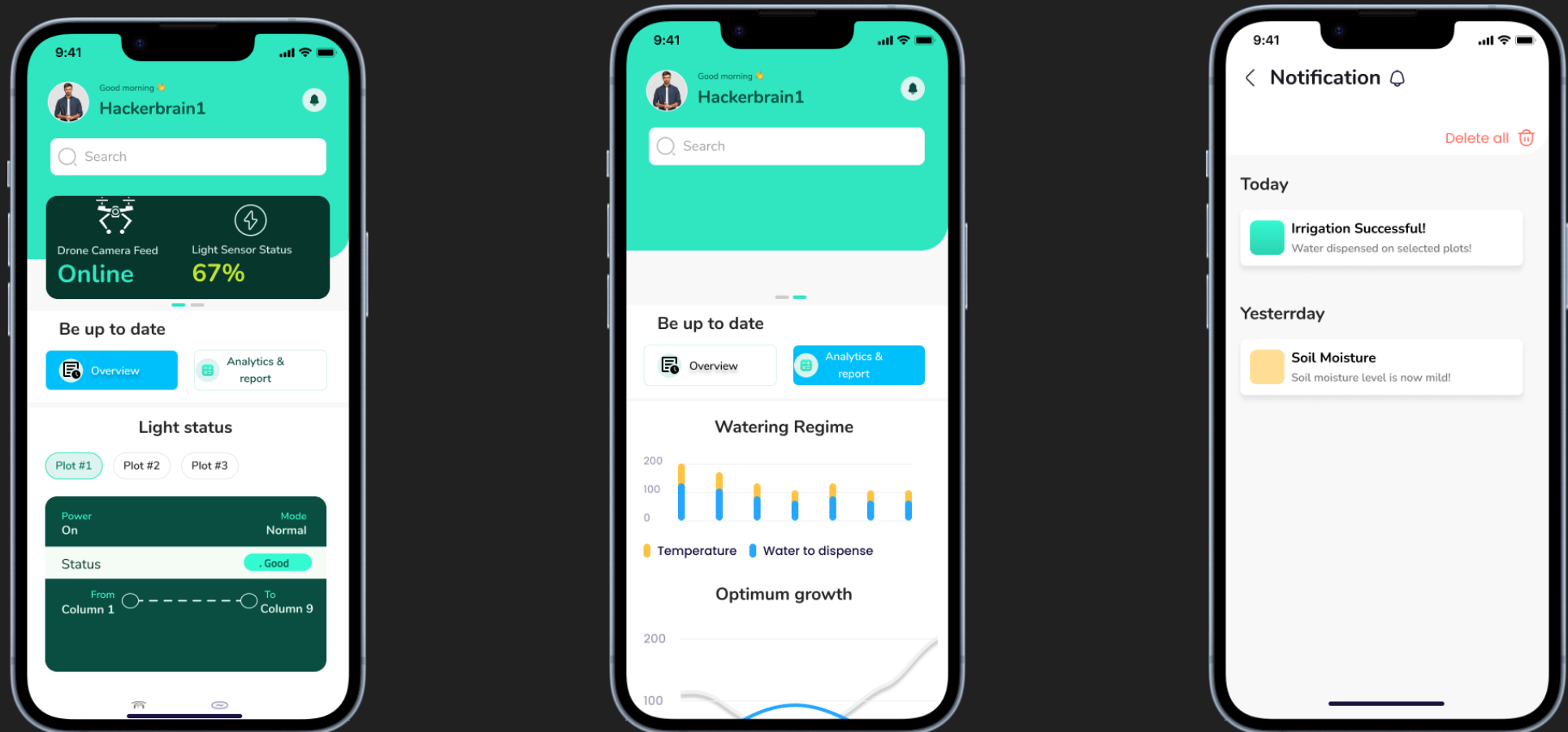
Our Solution

AgriSmart is an innovative application that aims to help tackle climate change through the use of precision agriculture, sensor integration, and automated systems.

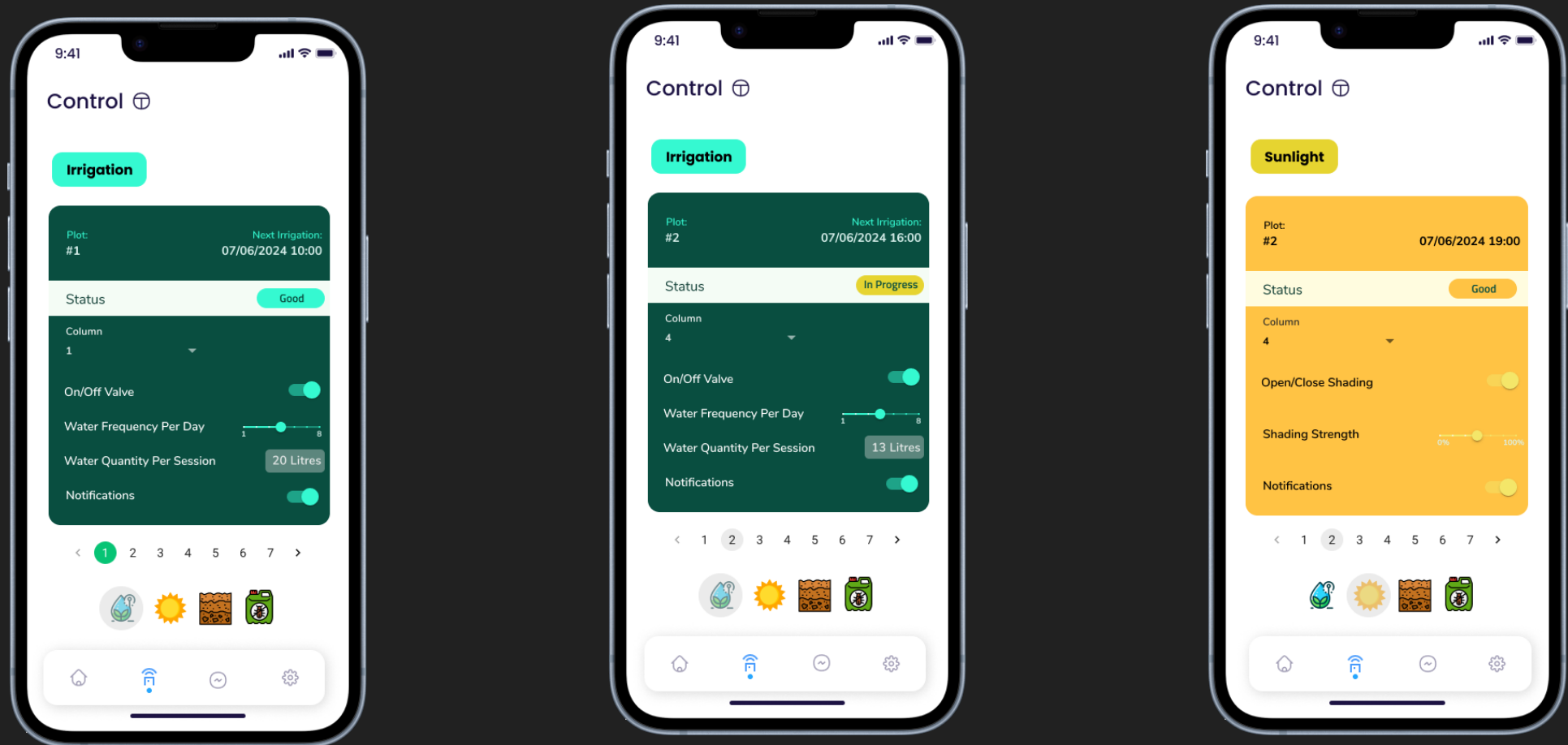


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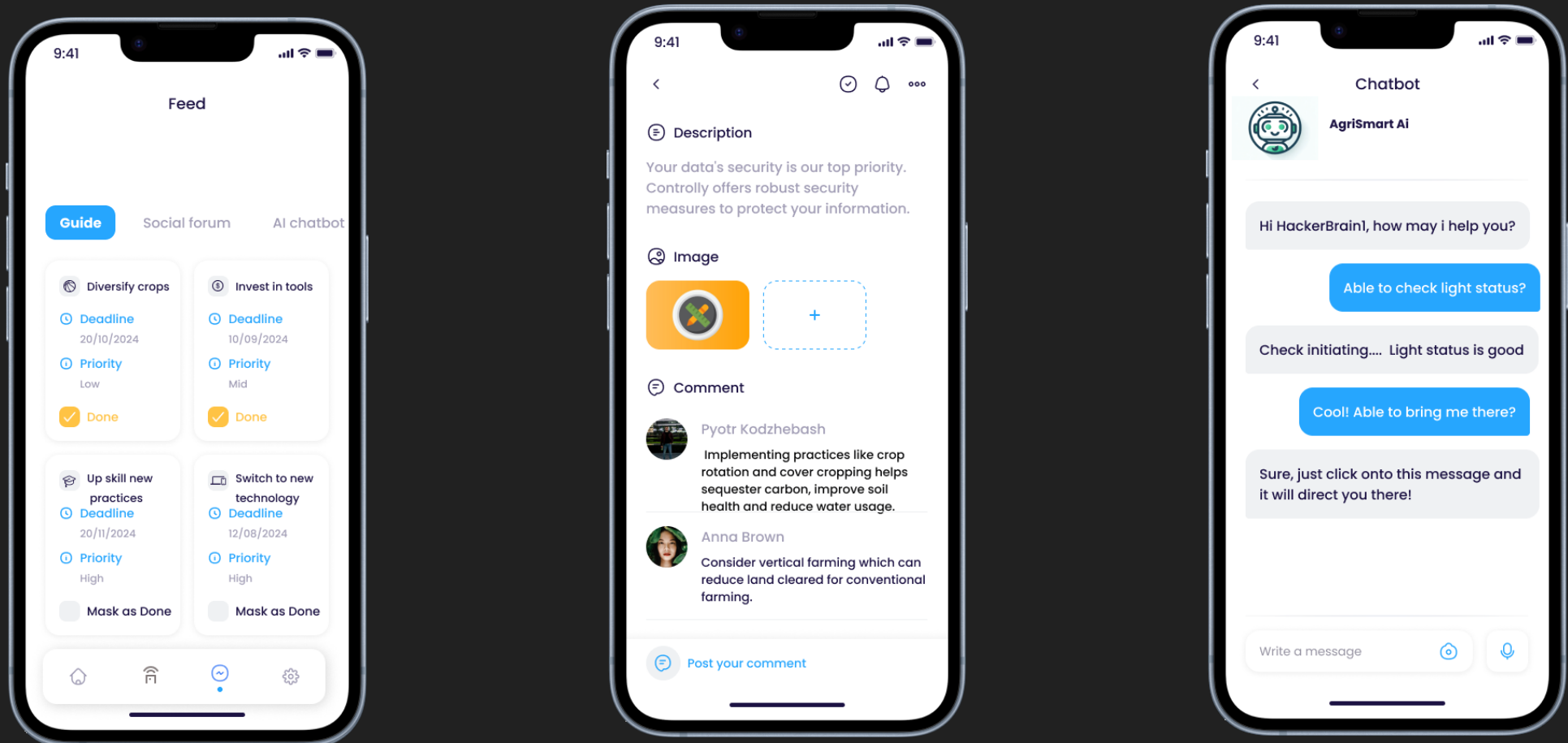
Feature: Management Dashboard



Feature: Automated Variable Precision Control



Feature: Social and Knowledge Forum



Mitigating of issues associated with climate change

- Guarantees Crop Productivity Amid Uncertain Weather
 - Minimize food shortages and alleviate poverty
- Optimized Resource Usage with Data-Driven Approach
 - Reduces resource waste, lowering costs and environmental impact while maintaining high productivity
- Sustainable Crop Recommendations
 - Recommends crop varieties that emit fewer greenhouse gases
 - Reduce carbon footprint
 - Promote sustainable and eco-friendly farming practices

Positive Impact on Climate Change



RESOURCE
EFFICIENCY

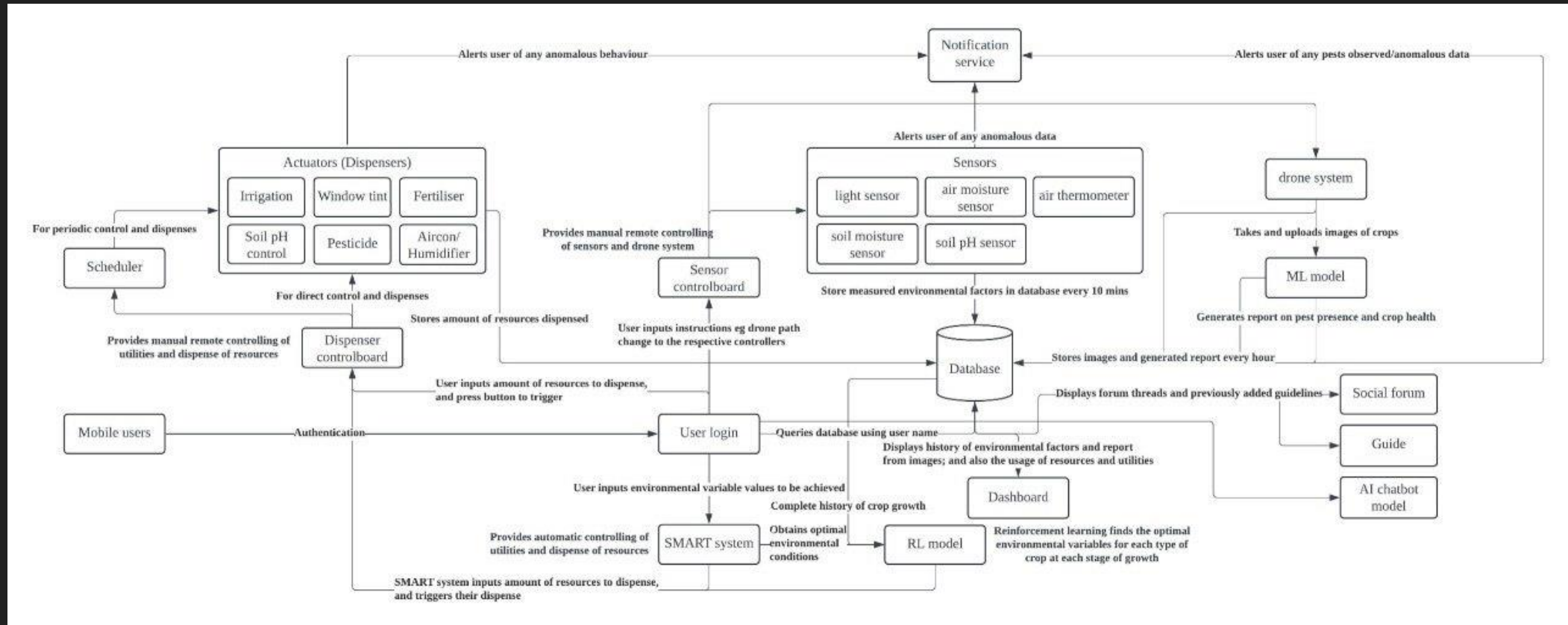


IMPROVED SOIL
HEALTH

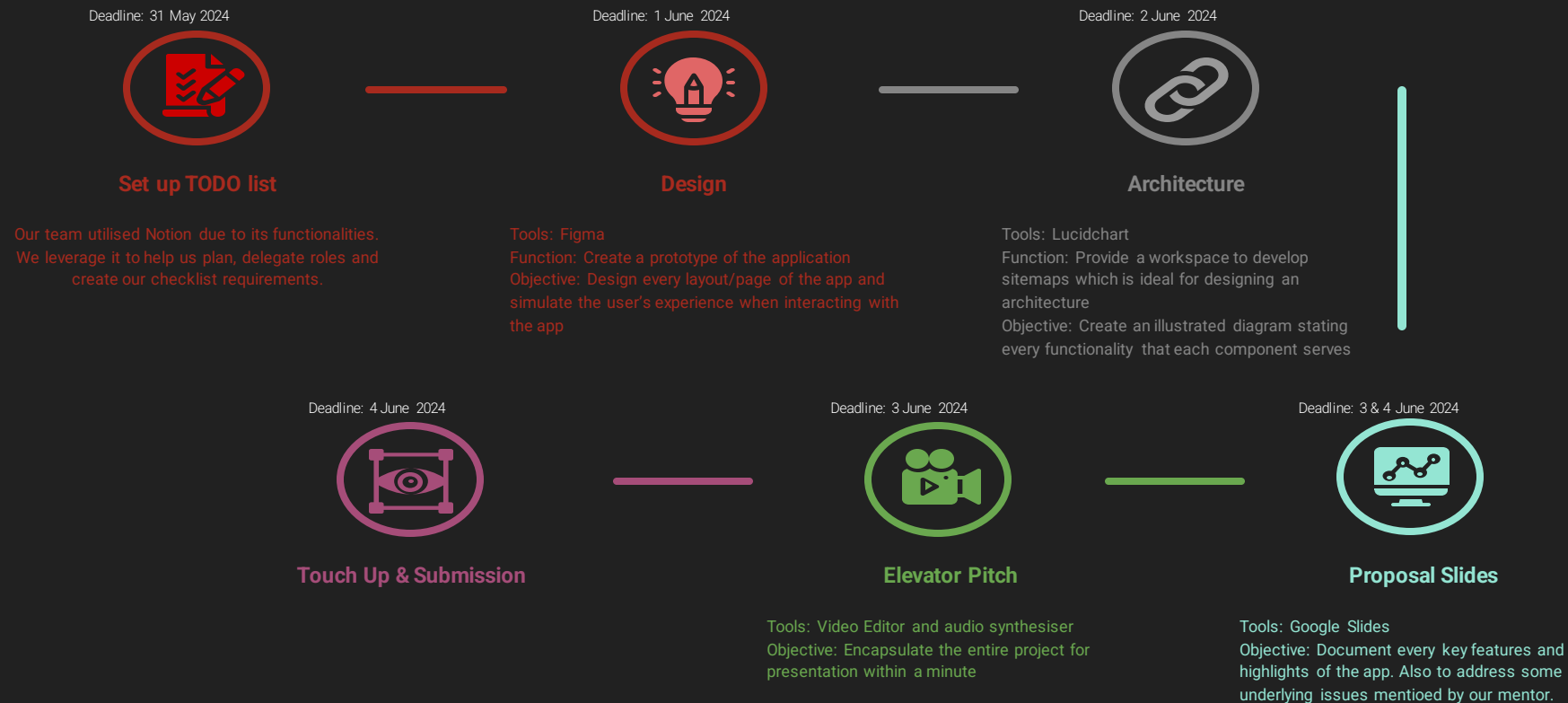


INCREASE YIELD

Application Architecture



Development Timeline



Addressing of Q&A

Main Points to Address	Other Questions upon consideration
How does AgriSmart help in managing resources efficiently? Ans: It helps to make data-driven decisions to use resources more efficiently, reducing waste and costs.	How does AgriSmart handle data privacy and security? Ans: It employs robust encryption and security protocols to ensure your farm data is not compromised and only usable to authorised users.
How does AgriSmart improve farm security? Ans: It employs advanced 24/ 7 surveillance along with cameras and motion sensors. From here, instant alerts will be received in case of suspicious activity.	How does AgriSmart help in pest control? Ans: AgriSmart uses computer vision to detect early signs of infestations and provide recommendations for targeted pest control measures, minimizing crop damage.
Will there be an onboarding for farmers to use AgriSmart? Ans: Yes, there will be a month long onboarding with farmers. Farmers will also be provided with a user guide too.	Is AgriSmart suitable for all farm sizes? Ans: Yes, AgriSmart is scalable and can be tailored to suit both small and large farms.