We are looking for answers to the following -

1. Broad vision of what all to achieve

2. Modules/sub parts detailing the implementations

3. What all we can target to build in 5 weeks

## Broad Vision & Modules

### Finance:

1. Finance planning for farmers (see [here](https://www.microsoft.com/en-us/research/publication/digitizing-monetary-ecologies-intended-and-unintended-consequences-of-introducing-a-financial-management-app-in-a-low-resource-setting/))
2. Farmers’ Cooperative platform
3. Pricing info in various local/regional markets (crowd-sourced/retrieved from channels)
4. Integration with local banks for updates on credits, policies etc
5. Digital money integration (?) - [details](https://www.microsoft.com/en-us/research/publication/working-digital-money-cash-economy-collaborative-work-loan-payment/)
6. Buy and Sell among local farmers – for seeds, equipment etc.
7. Loan management (see [here](https://www.microsoft.com/en-us/research/publication/prayana-a-journey-towards-financial-inclusion/)), deliver credit, insurance, pensions services (see [here](https://esoko.com/portfolio/protecting-smallholder-families-with-microinsurance/)).

### Agriculture:

1. Crowd sourced hyper local pest activity
2. Crowd sourced Agri insights: eg selection of seeds suited to a particular climate, reducing the risk of crop failure - [Tricot](https://www.scidev.net/global/agriculture/news/citizen-science-helps-farmers-adapt-to-climate-change.html)
3. Integration with govt agriculture dept for dissemination of Agri updates
4. Agricultural planning for farmers (monthly, half yearly, annually) - Chatbot/Form Fill-up
5. Crowd sourced agri updates - [FarmChat](https://www.ictworks.org/farmer-chatbot-india/)
6. Livestock management services
7. Updates for veterinary services for livestock
8. P2P Communication - ([Wefarm](https://wefarm.co/announcements/2019/3/4/worlds-largest-farmer-to-farmer-network-wefarm-reaches-over-one-million-users))

### Weather:

1. Crowd sourced hyper local weather predictions
2. Ability to upload hyper local weather data
3. Generic weather updates from Accuweather like API (short term & long term)
4. Annual expected Rainfall levels and suggestions to plan crops accordingly
5. Integration with govt meteorology dept for dissemination of info

### Miscellaneous:

1. Ability to broadcast warnings (preset items) through SMS/web-updates
2. Local Language Support
3. Full offline SMS/USSD based information retrieval and uploading
4. App integration with USSD/SMS platforms
5. Voice support(?) - to be explored
6. WhatsApp support (?) - Explore WhatsApp for business
7. OS for low-end phones - [KaiOS](https://www.kaiostech.com/) - [Life for Africa](https://www.kaiostech.com/life-a-new-initiative-by-kaios-to-help-first-time-internet-users-make-the-most-of-mobile-internet-access/)
8. Inspiration from Chinese Super-App applications ([WeChat for rural users](https://www.cgap.org/sites/default/files/researches/documents/Brief-Chinas-Alipay-and-WeChat-Pay-Dec-2017.pdf))
9. Social Media for farmers - see [here](https://www.microsoft.com/en-us/research/publication/krishipustak-a-social-networking-system-for-low-literate-farmers/)
10. E-governance track - grievance redressal for farmers (?) - see [here](https://www.microsoft.com/en-us/research/publication/ict-enabled-grievance-redressal-in-central-india-a-comparative-analysis/)
11. Reminders for various agri/finance/weather related activities

### Collaboration partners:

1. [Farm Africa](https://www.farmafrica.org/)
2. [Esoko](https://esoko.com/)

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## Achievable Feature Set and Timeline