Digital Krishi

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Requirements

- Get data form sensors, analysis & process and make suggestions.
 - Nitrogen
 - Phosphorus
 - Potassium
 - Humidity
 - Temperature
 - Crop Image
 - GIS data for crop diesis detection
- Farmer can order fertilizer from the app initially it will be sold and processed by us latter 3rd party vendor will be integrated
- Farmer can sell crop via the mobile app
- Fertilizer dealer or vendor can also sell their products via the system
- General public can order a crop (rice or vegetable or mango) via the app in local area or nationally (any where from the country)
- The sensor data will be identified by the agriculture expert.

System Users

- General User
- Farmer
- Agriculture Agent
- Agriculture Expert
- 3rd Party Vendor
- Admin

General User

- can order a product (rice or vegetable or mange etc.)
- can track the order progress
- pay via mobile payment system or internet banking

Farmer

- can order a product (rice or vegetable or mange etc.)
- can track the order progress- pay via mobile payment system or internet banking- can add a crop land
- can periodically take the sensor data
- can select a crop based on a crop land and season
- can ask for the expert suggestion for a crop and crop land
- also subscribe for a subscription model based on full length of crop season

Agriculture Agent

- can order a product (rice or vegetable or mange etc.)
- can track the order progress
- pay via mobile payment system or internet banking
- can add a crop land
- can periodically take the sensor data
- can select a crop based on a crop land and season
- can ask for the expert suggestion for a crop and crop land
- also subscribe for a subscription model based on full length of crop season
- can add other farmer land and crop on behave of the company
- > the may be company paid employee or a individual works for the commission
- take the GIS data for a certain are via drone or some other method.

Agriculture Expert

- can order a product (rice or vegetable or mange etc.)
- can track the order progress
- pay via mobile payment system or internet banking- can add a crop land
- can periodically take the sensor data
- can select a crop based on a crop land and season
- can ask for the expert suggestion for a crop and crop land
- also subscribe for a subscription model based on full length of crop season
- can add other farmer land and crop on behave of the company
- the may be company paid employee or a individual works for the commission
- take the GIS data for a certain are via drone or some other method
- give suggestion on behave of company for a crop season or a crop field
- the person must have agriculture background.

3rd Party Vendor

- add fertilizer to the app
- sell the fertilizer from the app.

Admin

- manage Agriculture Expert, Agriculture Agent, 3rd Party Vendor Account
- assign a Agriculture Agent to a particular area
- assign a Agriculture Expert to a group of farms
- active employee of the company.

Module List

- crop_listing_module
- crop_trade_module
- money_transaction_module
- crop_transfer_module
- address_module
- sensor_logging_module
- gis_module
- crop_module
- field_module
- super_crop_module

- super_field_module
- faritilizer_module
- vendor_module
- ai_suggestion_module
- expart_suggestion_module
- admin_module
- permssion_module
- auth_module
- user_module

General User Module

- crop_trade_module
- money_transaction_module
- address_module
- auth_module
- permssion_module
- user_module

Agriculture Agent Module Farmer Module

- crop_listing_module
- crop_trade_module
- money_transaction_module
- address_module
- sensor_logging_module
- crop_module- field_module
- faritilizer_module- auth_module
- permssion_module- user_module

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Agriculture Expert Module

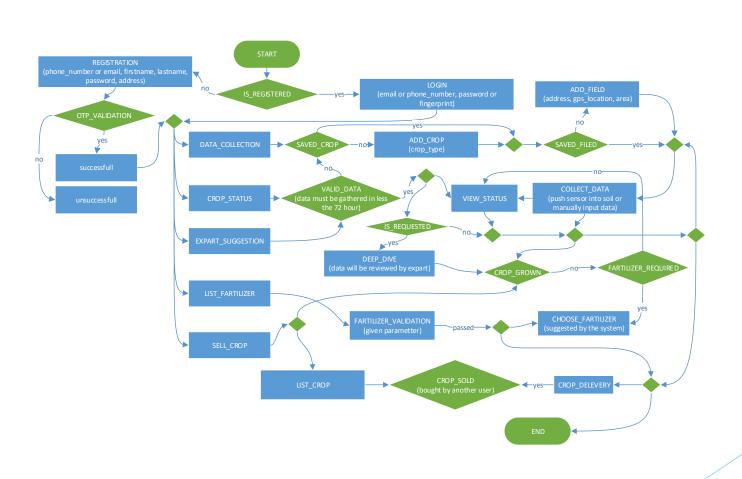
- crop_listing_module
- crop_trade_module
- money_transaction_module
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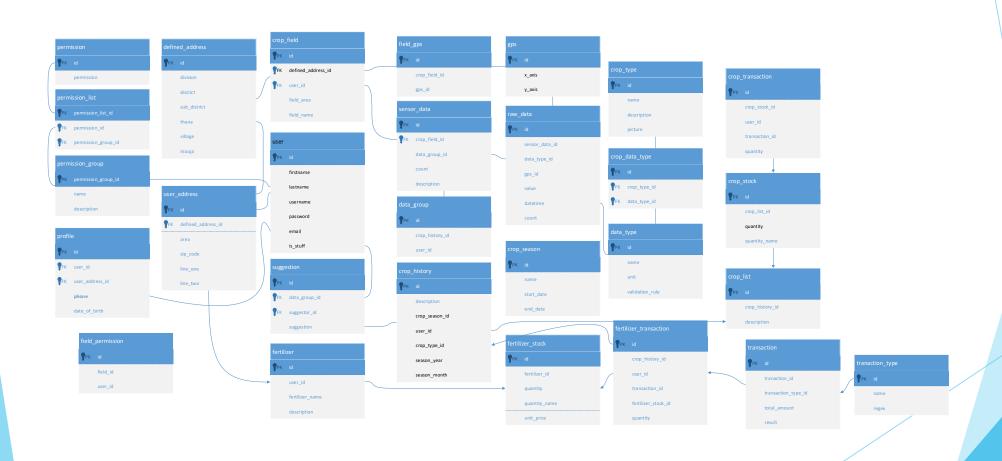
Admin Module

- permssion_module
- admin_module
- auth_module
- user_module

Android App Workflow



Proposed Database Design



Estimated Module Development Timeline

module_name	estimeted_time (weeks)	depedency_modules
crop_listing_module	2	crop_module
crop_trade_module	2	crop_listing_module
money_transaction_modul e	2	crop_trade_module
crop_transfer_module	2	crop_trade_module
address_module	2	
sensor_logging_module	2	field_module
gis_module	2	user_module, address_module

Estimated Module Development Timeline

module_name	estimeted_time (weeks)	depedency_modules
crop_module	2	user_module, address_module
field_module	2	crop_module, address_module
super_crop_module	2	crop_module
super_field_module	2	field_module
faritilizer_module	2	user_module
vendor_module	2	user_module
ai_suggestion_module	2	field_module, crop_module

Estimated Module Development Timeline

module_name	estimeted_time (weeks)	depedency_modules
expart_suggestion_modul e	2	ai_suggestion_module, field_module, crop_module
admin_module	2	user_module, address_module, auth_module, permssion_module
auth_module	2	permsion_module
user_module	2	address_module, auth_module, permssion_module
permssion_module	2	

Estimated Timeline

Part	estimeted_time (weeks)
Agriculture Requirement Finalizing	2
Requirement Finalizing	1
UI/UX Design Finalizing	2
Development	36
Initial Trail	2
Field Trail	4

This development timeline is calculated for two android developer one web developer, one backend developer, one quality testing developer & one DevOps Engineer.

Thank you ... ©