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Problems to solve

1. Data of lab testing of ***Soil***

2. Provide necessary informations about the soil and its contents which are deficient in it ,to the local farmers of a particular area.

3. Scientific solution for agricultural productivity.

Target audience

The Local Farmers, who are unaware of the natural nutrients in the soil of their field & Perform farming in a non scientific way by predictions.

01 | Local Farmers

02 | Local guides

Expected Benefits

1. It will facilitate the farmers to check their soil fertility and essential information about their soil without going anywhere to get it checked, without hustles.

2. Will help the people who want to check the details of any soil in any locality of the country or state without hustling in the government institutions.

3. Will provide proper guidance to the farmers for the usage of proper amount of fertilisers in their field for better productivity.

Proposed Process Flow (end to end)

1. Fetch location of the user.
2. Show the field on google map.
3. Take the data related to that particular field from soil department authorised Database.
4. Provide recommendations to the user related to suitable seeds (based on season), fertilizers to be used along with quantity per unit area, expected price for the seeds and fertilizers, possible irrigation dates, cost forecasting for the lifecycle of the crop, and possible harvesting outcomes.
5. Application can provide multiple crop options suitable for the soil and season with cost and possible outcome, so that the farmer can make informed decision about the which crop to go for.

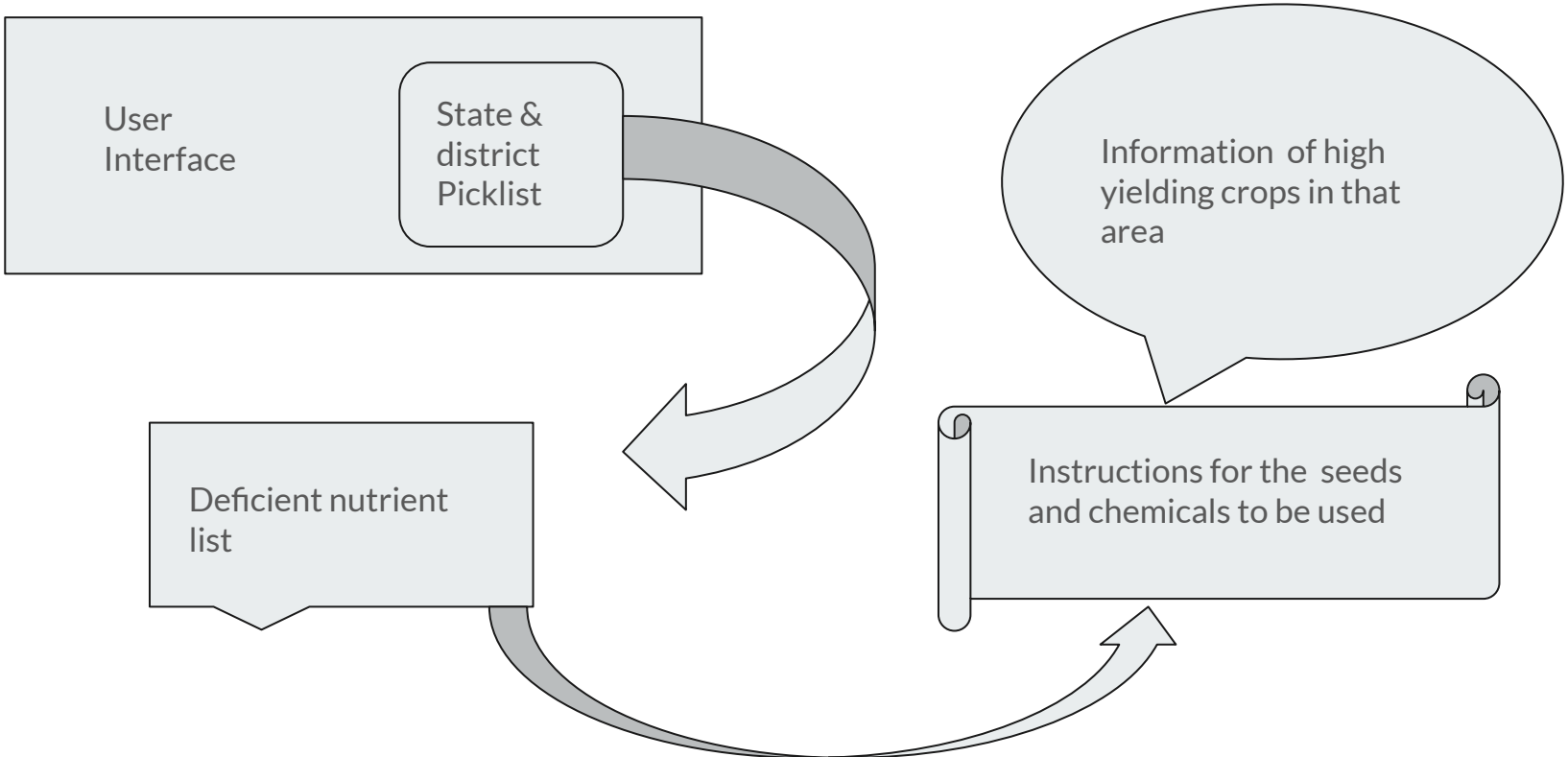
DATABASE FOR GEO LOCATIONS OF DISTRICTS OF BIHAR

"C:\Users\user\Documents\MeriMitti Project databases\geodetails databse.sql"

Table Design

State	Micronutrient deficient districts			
	Zinc (Zn)	Boron (B)	Copper (Cu)	Iron (Fe)
Andhra Pradesh	Anantpur,Gutur,Krishna ,Kurnool,Nizamabad,Na lgonda,Nellore,Prakasa m	-	Anantpur East Godavari Prakasam	Guddapah Kurnol
Bihar	Araria,Bhojpur,Bhabhua ,Bhagalpur,Banka,East Champaran,Darbhanga, Jamui,Kishanganj,Khag aria,Muzaffarpur,Nawad a,Nalanda,Patna,Purne a,Rohtas,Siwan,Saran, Samastipur,Saharsa,Se kharpur	Araria Darbhanga Nalanda Muzaffarpur Madhubani Samastipur Supaul Siwan Kishanganj	Araria,East Champaran, West Champaran Supaul Kishanganj	Darbhanga Madhubani Muzaffarpur Samastipur Siwan

Technical Design Details



End to End Process Flow

1. User will select his state & district from the picklist.
2. Then selection of the particular deficient nutrient.
3. All the information of that deficient nutrient will be shown along with the enhancement methods & along with that the high yielding crops for that particular area will be suggested so that the user can select the crop to be cultivated rather than doing traditional farming.

Data Management

For User Side

User name and the current location of the user, will be taken as first preference to show default location.

For Database Side

The soil information related to the particular field will be taken from government authorised Database.

The Scientific measures of that particular area will be taken from the district level soil department database.

Thank you!