Crop App

The application we plan to make is intended to be used by farmers to keep track of the crops to be cultivated.

The application can track when it is time to do weeding, replace resources (such as tractors and materials used during farming), and keep up with the list of previous customers with their personal information.

The app can also keep the list of seed suppliers to the farmer.

STORY-OVERVIEW

1.As a farmer,

I want to add customers to the system,
So that I can easily manage their information and track their crop preference.

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WIREFRAME

Dashboard	id	name	email	address	cropPreference
customers					
seed_suppliers					
resources					
profile					

Acceptance criteria

- The system must validate all required fields are provided and adhere to their constraints (e.g. valid email)
- If a customer with the given email exists,an error should be given “This customer already exists in the Database”.
- Upon successful validation, the customer is added to system with the provided details.
- The system must return the newly created customer object.

2. As a farmer,

I want to view a list of the seed suppliers,

So that I can choose the most suitable seeds for my crops.

WIREFRAME

Dashboard	Name	email	address	seedType
customers				
seedSuppliers				
resources				
profile				

Acceptance criteria

- The seed suppliers list is accessible both on desktop and mobile devices
- The farmer can view a list of seed suppliers and the seed types they offer.

3. As a farmer,

I want to be able to track the growth of my crops,

So that I can better plan and manage harvest times.

WIREFRAME

Dashboard	cropName	purchasePrice	marketPrice	yield	growthDuration	attention
customers						
seed_suppliers						
resources						
profile						

Acceptance criteria

- The farmer receives notifications when the crops are nearing harvest time.
- The farmer can view a list of crops with their current growth stage.

4.As a user,

I am able to sign up with my personal data,
so I can access the dashboard.

WIREFRAME

Sign up
Name*:
Email*:
Age:
Farm size*:
Farm practice:

Acceptance criteria

- A form requiring personal information is displayed
- Some fields must be required (mandatory)
- Place holder exists

5. As a user,
   I am able to see list of resources,
   so that I can see what resources are available.

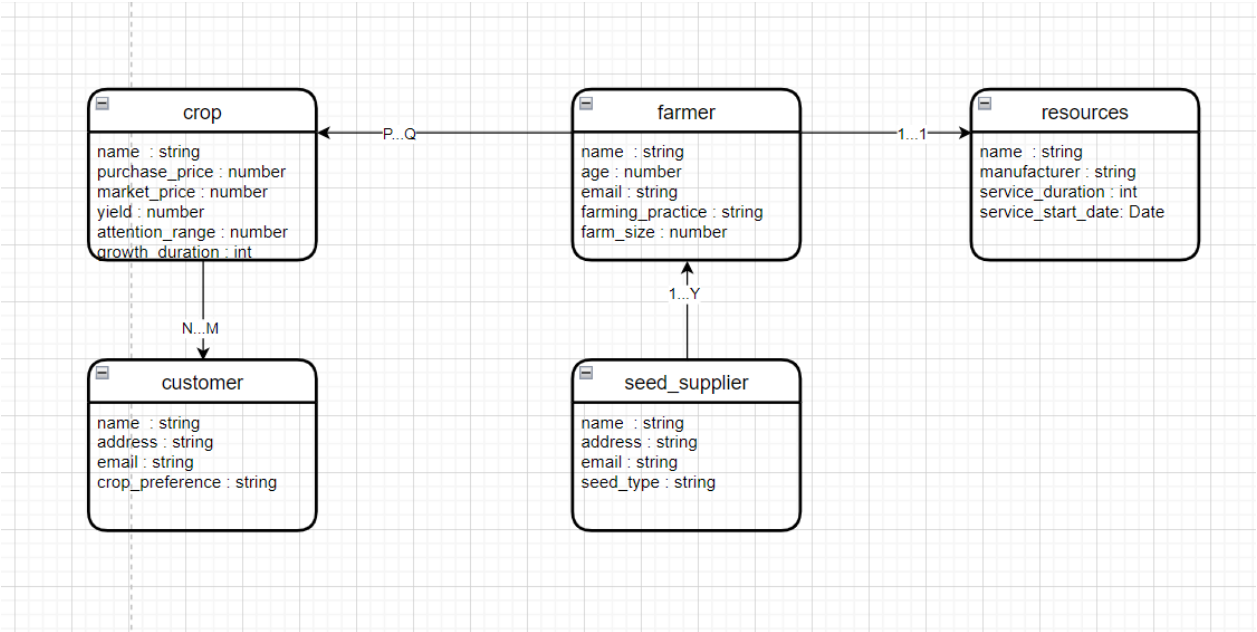
WIREFRAME

No	Name	Amount	Active
1	BY tractor	3	Yes
2	ZI Pesticide applicator	4	Yes

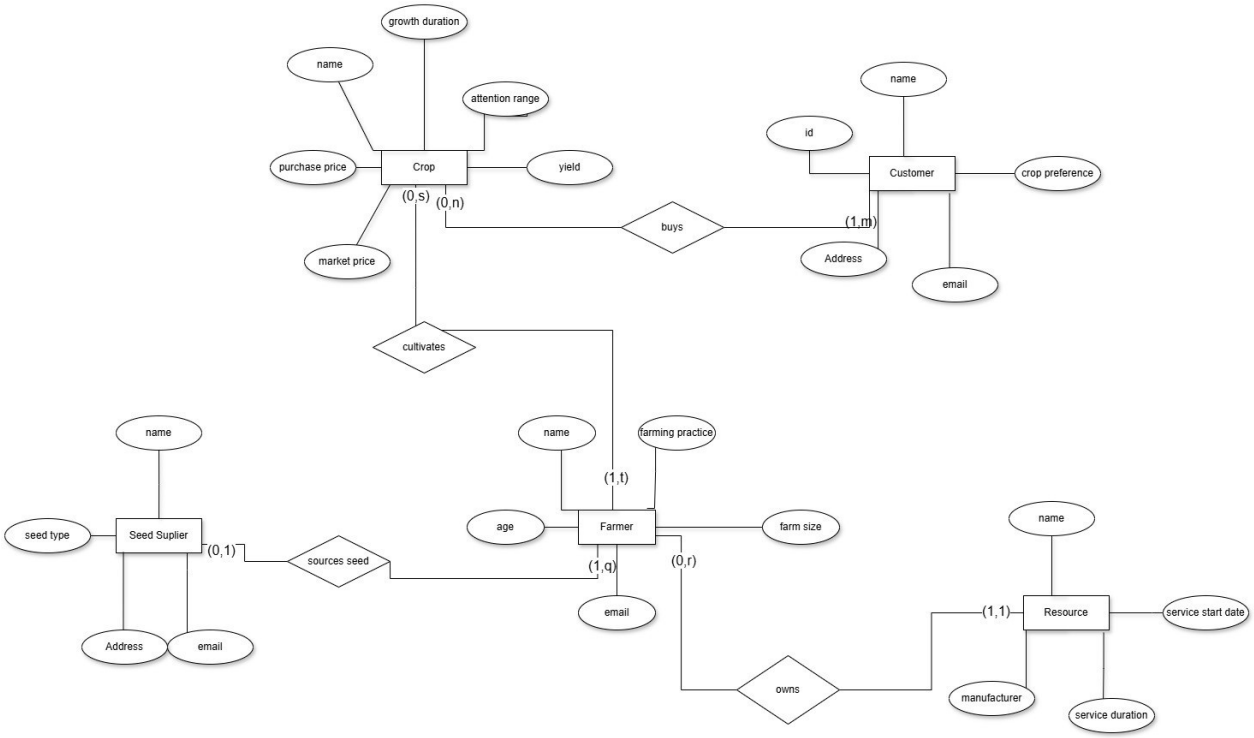
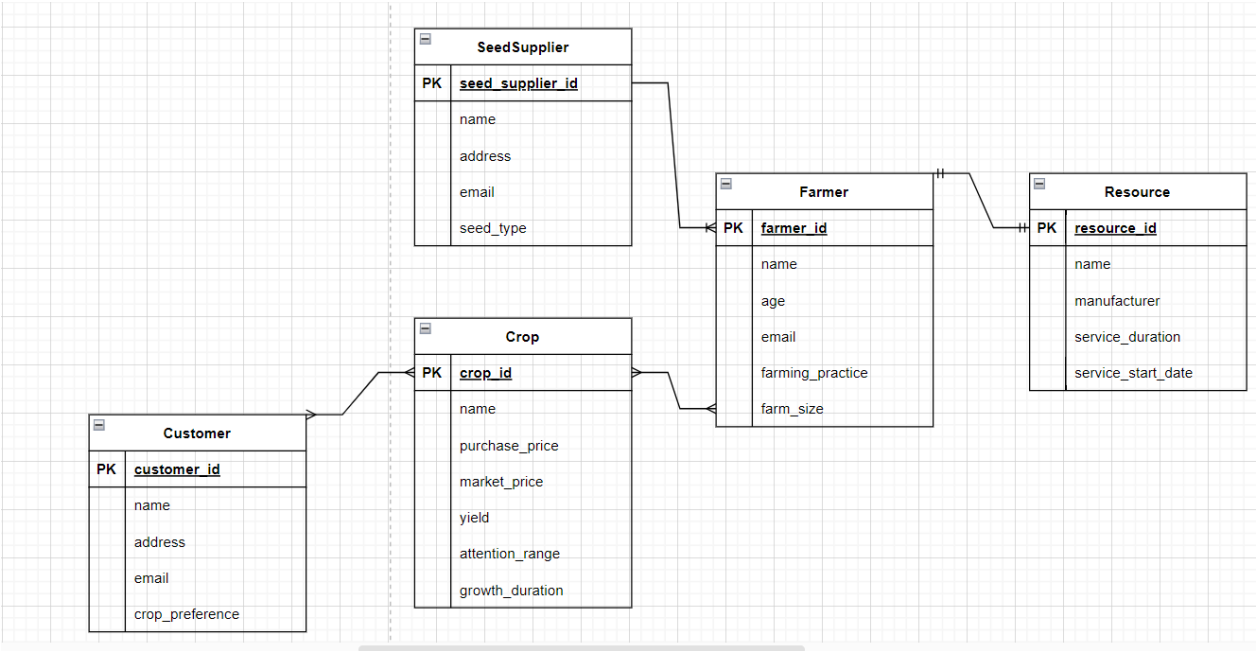
Acceptance criteria

- Resource names are displayed with amount.
- If there is no resource “no resources available” must be shown.
- There must be an option to add a news resource.
- There must be an option to filter a specific resource by name.

DOMAIN MODEL



CONCEPTUAL MODEL



LOGICAL MODEL