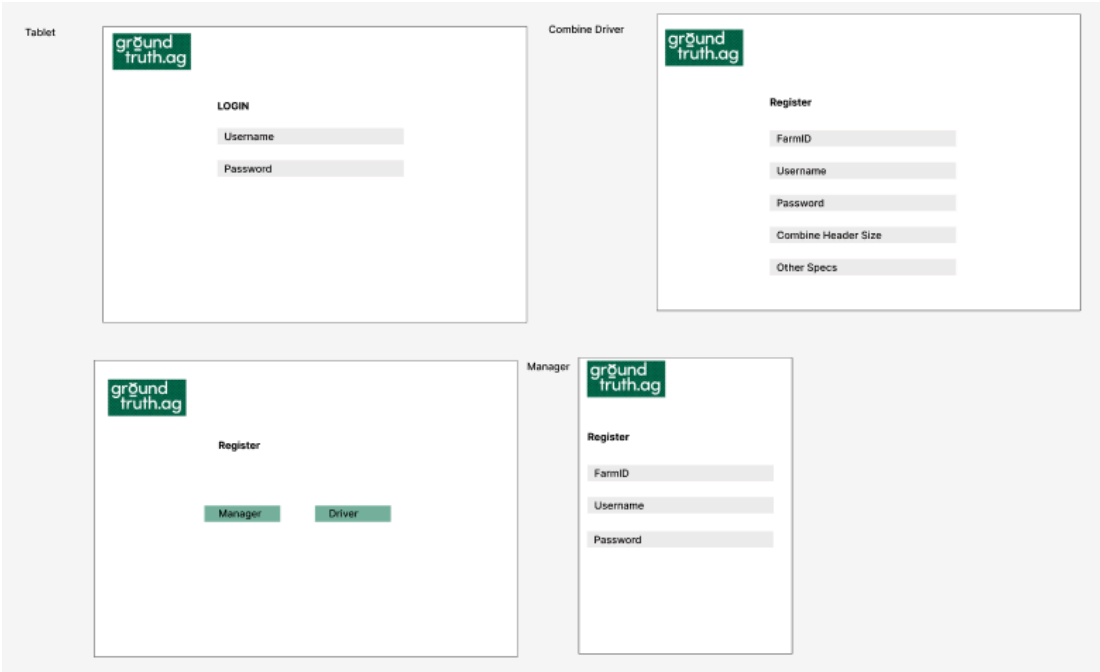


Low Fidelity Prototypes


Design 1 (disregard)



Farm Managers
Phone

gröund
truth.ag

MapMy CombinesSettingsLogout



Filter Options

Grade

Protein

Moisture

Damage

Export

gröund
truth.ag

MapMy CombinesSettingsLogout

My Combines

Add New Combine

ID: xxxxxxxxxx

Driver: Name

Specs:

Edit

ID: xxxxxxxxxx

Driver: Name

Specs:

Edit

ID: xxxxxxxxxx

Driver: Name

Specs:

Edit

gröund
truth.ag

MapMy CombinesSettingsLogout

My Combines

ID:

Driver:

Specs:

+

Settings

Notifications

Edit fields

Notification Settings

gröund
truth.ag

MapMy CombinesSettingsLogout

Notification Options

Delivery options

SMS: (xxx)XXX-XXXX

Email: xxx@xxx.xx

Popup Enabled:

Sensitivity:

1

10

*Note about how sensitivity works: based on how many bad grades in a row

Edit Fields

gröund
truth.ag

MapMy CombinesSettingsLogout

Edit field



Define Zones

Edit Map size

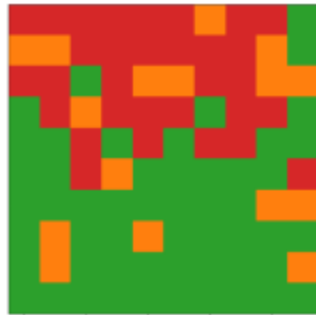
Tablet

ground
truth.ag

Other in-App Tabs

Other Details

Logout



Filter Options

Grade

Protein

Moisture

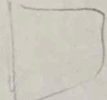
Damage

Export

Comments:

Design 2

Login



Email

Password

Login

Register

Register

Display Name

Email

Password

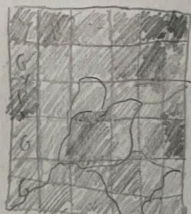
Register

Log In

Main

Filter V

Zones



km

Zoom In

Zoom Out

Export

map Combines Account

dropdown

Filter V

Protection

Moisture

Damage

Combine 1

Account

GA Logout

Notification Settings

Delivery

SMS ☒

Email ☒

Push ☒

Sensitivity 9

map Combines account

Combines

GA Logout

combine 1 edit

Driver: x

Specs: ↓

combine 2 edit

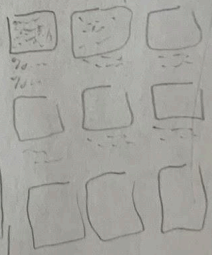
Driver: x

Specs: ↓

...

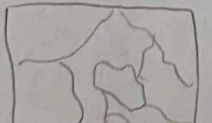
Images

Combine 1



Zones

draw zone



GTA Comments:

- Likes: Zones are how farmers track their agronomy. They like having the overlay of the zones to see if the perimeters of the zones need to be moved.
- Images by themselves: to the farmer, they all look the same. Allow the user to zoom in on the field map and click on an image icon that would show the image for that coordinate. Bounding boxes are already applied to the image. Raspberry pi applies it (creates the image in real time). Database has just images. App would have to call custom image based on the view (frost layer, protein, etc.) and apply bounding box. Only display images that contain frost. If you filter available images with frost. Would rarely zoom in on green layer to look at frost. Each image has coordinates and timestamp tied to it.

Farmer comments

-

Design 3

12:10pm

Login

Contact us to sign up

12:10pm

Welcome back,

Email

Example@domain.com

Password

Login

Don't have an account? Sign up

12:10pm

Filter by combine
any for admin

Filter by zone / farm
Zoom to standard

Zone 1 Zone 2 Zone 3

map account

redirect to the
website (if they are handling
registrations)

12:10pm

My Account

My Combines

My Fields

Notification settings

Overlay settings

Change Password

Log out

Map account

Admin only

12:10pm

My Account

Name

John Doe

Email

John@Doe.com

Save

Cancel

Map account

Can't edit

12:10pm

My Combines

+add combine

id: ~~~~

Model: ~~~~

driver: ~~~~

header size: ~~~~

id: ~~~~

Model: ~~~~

driver: ~~~~

header size: ~~~~

Map account

add combine?

edit

12:10pm

My Fields

+add field

Crop type: ~~~~

area: ~~~~

Coordinates: ~~~~

Map

12:10pm

Create field

Crop type

Coordinates

or

12:10pm

Notification settings

☐ I would like to receive
notifications on grade changes

How up to date do you want
to be?

hourly daily weekly

☐ I would like to receive
notifications on non-...

Map

GTA Comments:

- Important to see combines and fields/zones
- Missing: loads of grain. Everytime a combine unloads. The load would have an average grade. (say 10 images for a load). Combine might have to click a button in app when they unload (for now). When they click it, record the load, information and highlight the map each load.
- Idea: Potentially have borders around each load in the map and clicking the border would take you to a page showing the information of each load and its images
- View image or view loads on menu (quick tab?)
- Might be unloading and then click a button of what cart or truck you are unloading into (until this process can be automated). We would have to set up trucks and carts as well as combines (my equipment). If we take it to a certain step, have placeholders that they can add. Ask bhumit.

Farmer comments:

-

assuming we handle this
Signup

Login

Login

Email

Password

☒ Remember me?

don't have an account? register

Register

Register as:

☒ admin

☐ combine

Name

Email

Password

Confirm Password

already have an account? login

if combine,
enter code
given to admin?

Create Fields

draw field ☒

erase boundary ☒

mark by rectangle ☒

clear ☒

close

NORTH AMERICA

Before we begin, mark the boundaries of your field(s)

Continue →

if admin

MAP - Combine view

200m (or find screen)

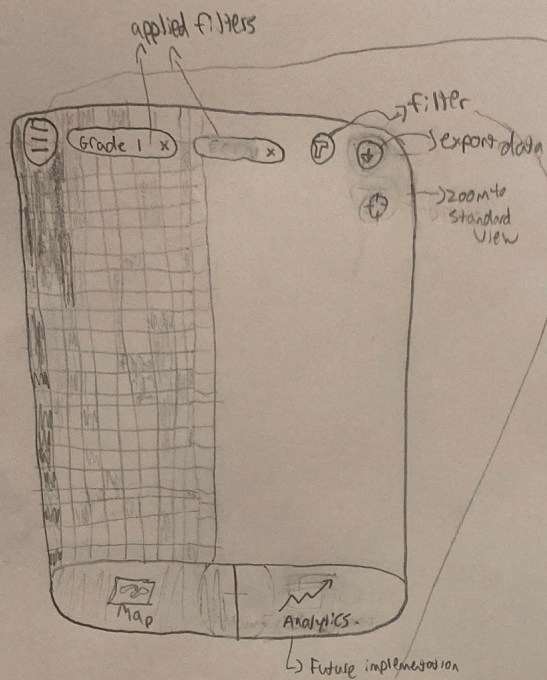
200m only

Map

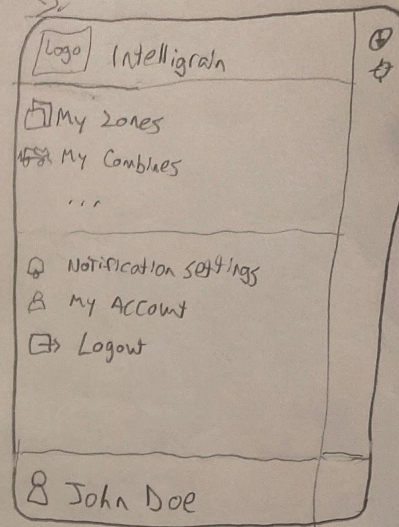
Imaging

↳ initial field so there is an initial
map view set.

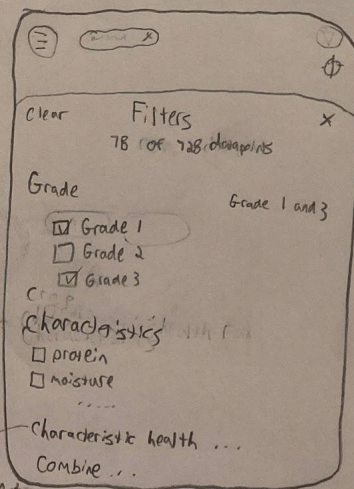
MAP - admin



Drawer view



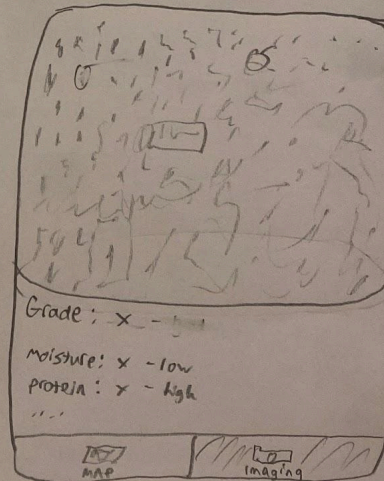
Filters



range based on target metrics

Need more info on characteristic data & metrics for each

MAP - Imaging view



GTA Comments:

- Admin vs combine view is helpful
- Like being able to look at what combine did certain parts of the field. Setting up each combine would have some use cases.
 - What are the use cases?
- Last LoFi is best
- Layout: hamburger menu to select different characteristics. Nav bar at bottom. We want to filter in combine view as well in case there is say, a lot of insect damage and the combine operator want to go around it.
- We want the initial option to choose fields and edit later

Other Notes

- What is your target customers field size? (used for cost estimation analysis of map api)
 - Small: N/A
 - Average: 160 acre plots, average 10k acre farm size (drawn by quarters)
 - 1 or more data points per acre.
 - Large: 10k - 30k acre farm size

Farmer comments:

- Would be nice to overlay zones on the field map or side by side. Need to be able to import those zones from other applications. Shape file typically
- Side by side of map and grain coming through being imaged.
- Keep it as simple as possible so that it could be running in the background and wouldn't need to be changed unless they wanted to.