

'Ceres' Plant Health Database

P2: Usability Test - August 2020

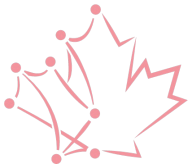
Code for Canada + OMAFRA



Background

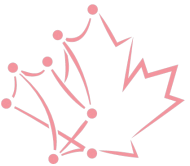
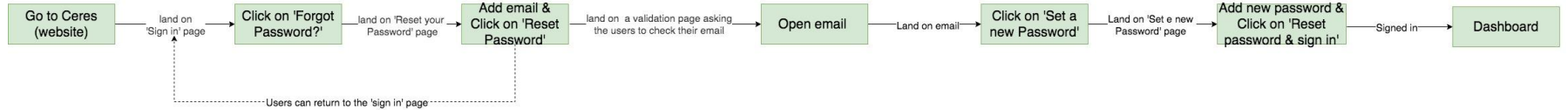
We heard from crop protection Specialists that collecting, processing and analysing data takes too long. Mainly, because data is unstandardised and scattered across lots of data sources. This causes data errors that require Specialists to manually enter, clean, and reformat the data before analysing it. As a result, this makes it hard on Specialists to deliver timely insights to growers to save their crop from any damage or loss.

We started developing a flexible and extensible data management system called Ceres. It allows specialists to choose how data is structured in a centralised database. Ceres's vision is to also allow Specialists to enter data, import bulk data, generate forms, and connect to other applications via APIs.



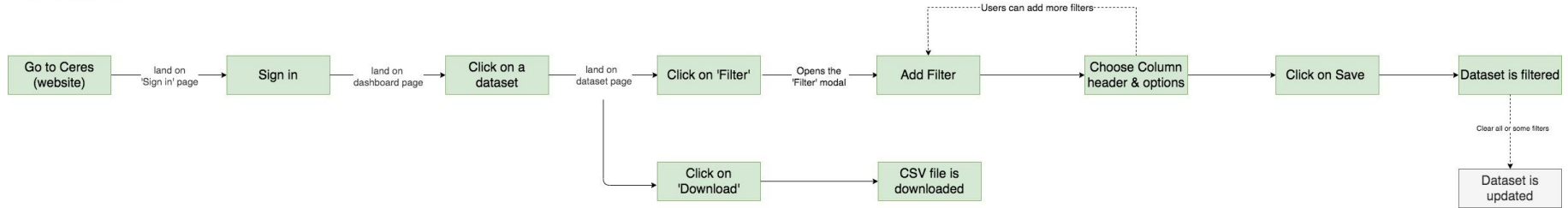
Tasks

1- Forgot Password



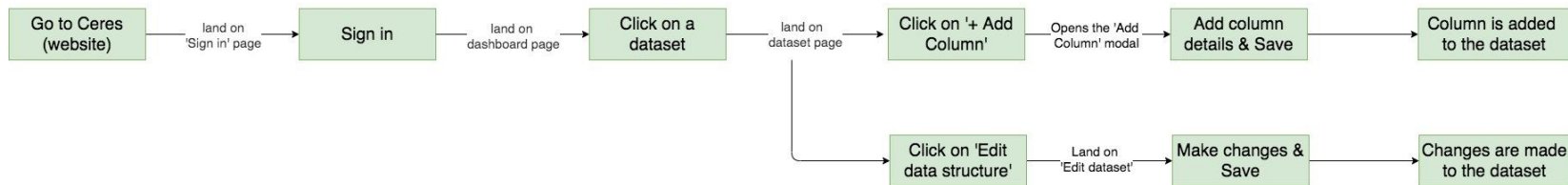
Tasks

2- Filter & Download a dataset



Tasks

3- Edit a dataset



Approach

Tasks were shared with OMAFRA Specialists via 1:1 remote interviews.

For Alpha, we focused on testing for Desktop since all specialists confirmed that they prefer to structure their datasets using desktops or laptops. Specialists also like to use mobile or tablet to enter data in the field. However, using screens could be challenging on rainy or sunny days. Also, lots of rural areas have slow to no internet connection.


Note: Currently, Specialists carry Blackberries or iPhones, but they are not provided with Tablets.



Set a new Password

A Web Page

← → 🔍 https://



Set a new Password

New Password

☐ Show Password

Reset Password and sign in

Dataset

[illegible]

Add Column

A Web Page

Dashboard Create new project

Raspberry Virus Survey [Edit](#)

Description placed here

Filter

+ Add row CSV Import Edit Invite Download

	Farm Name	Address	County	Email
1	Adam Berry Farm	1234 Johns Rd East Innerkip	Oxford	adam@gmail.com
2	Smith's Farm	18275 Steeles Ave W	Durham	keilen@gmail.com
3	Strawberrytyme Farm	1745 Fourth Rd	York	trevor@gmail.com

Add Column Heading

* Column heading

* Choose data type

☒ Required field to fill in when entering data later

Add Column Cancel

Raspberry_Virus_Survey.csv

Filter

[illegible]

User Feedback

One of our main findings stated that adding columns vertically while creating a new dataset wasn't working for a specific use case. A user structuring a dataset with 50+ columns prefers to use a table view to see where columns are being placed in a dataset. Therefore, we made adjustments to our designs as you can see in 'P3: Usability Test - Sept'. Other findings are also quoted below.

"I probably wouldn't bother **showing that password**. You never know who's looking over your shoulder. I'm surprised you don't have a redundant entry."

"What's the difference between a **CSV file** and an Excel file?"

"I can have **over 50 columns**. I probably add one or two columns [in the create new dataset page]. Then, I would go into a format that's easier for me to see which is the grid and add and move columns there."

" '**Add new record**' [button copy] is a bit fuzzy. I would expect to see '**Save**' and '**Close**'."

"Normally when I **filter**, I would expect if I selected 'pest' [a column heading] to have the options that are there and then to select those options [no contains field]"

Moving Forward

- Changed the add columns section in the 'create new dataset' to fit all use cases (datasets with 50+ columns)
- Inform users that a CSV file opens in Excel
- Remove the contains field from filter
- Change buttons language when adding a column to 'Save' and 'Close'



Future Opportunities to consider

Ability to

- Compare multi-year datasets
- Hide Columns in a dataset
- Track changes done by collaborators
- Add a dataset end date
- View a dataset's description from the dashboard

