

- Restore and Renew Database for internal staff use.
- Online web app with back end database.
- Responsive UI resizes for web or mobile device.
- Api for a mobile app to read and write to the database using json.
- Set up in stages?

STAGE ONE: Basic database and api for mobile app to download data

Have a single database user account that the app can log into?

api:getModified(tableName) returns json records

Get TENURE records where tenure:modificationTimestamp is newer than mobileDevice:downloadedTimestamp

Get USER records where user:modificationTimestamp is newer than mobileDevice:downloadedTimestamp

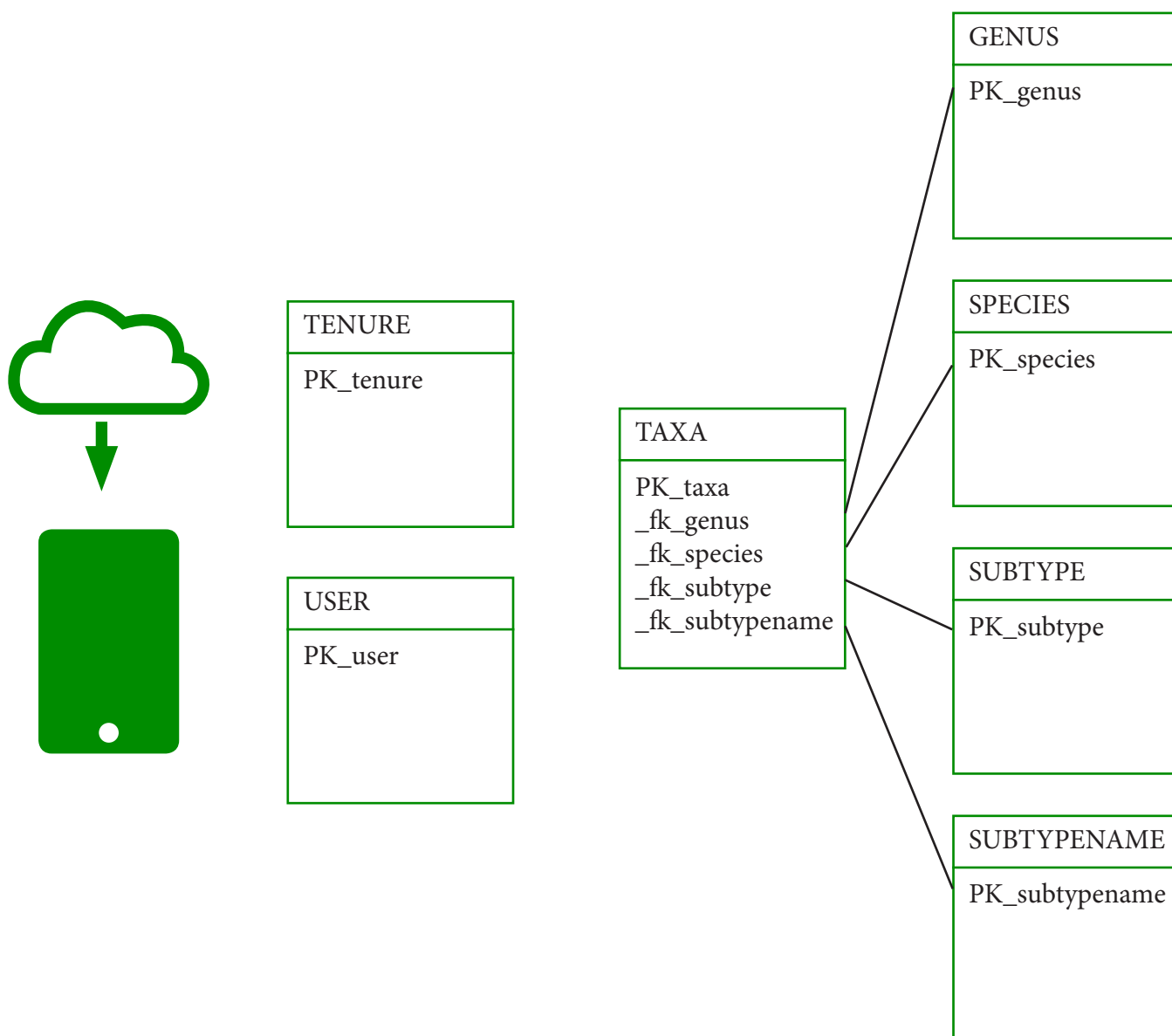
Get TAXA records where taxa:modificationTimestamp is newer than mobileDevice:downloadedTimestamp

Get GENUS records where genus:modificationTimestamp is newer than mobileDevice:downloadedTimestamp

Get SPECIES records where species:modificationTimestamp is newer than mobileDevice:downloadedTimestamp

Get SUBTYPE records where subType:modificationTimestamp is newer than mobileDevice:downloadedTimestamp

Get SUBTYPENAME records where subTypeName:modificationTimestamp is newer than mobileDevice:downloadedTimestamp



Stage 1: 7 Tables needed:

TENURE

_PK_tenure

name

type

geoJson

district

phone

bool_deleted

_modificationTimestamp

USER

__PK_user

nameFirst

nameSecond

email

bool_accessAdmin

bool_accessCollector

bool_accessWeb

bool_accessApp

password

bool_deleted

_modificationTimestamp

TAXA

__PK_taxa

_fk_genus

_fk_species

_fk_subtype

_fk_subtypename

status

bool_deleted

_modificationTimestamp

GENUS

__PK_genus

genus

bool_deleted

_modificationTimestamp

SPECIES

__PK_species

species

bool_deleted

_modificationTimestamp

SUBTYPE

__PK_subType

subType

bool_deleted

_modificationTimestamp

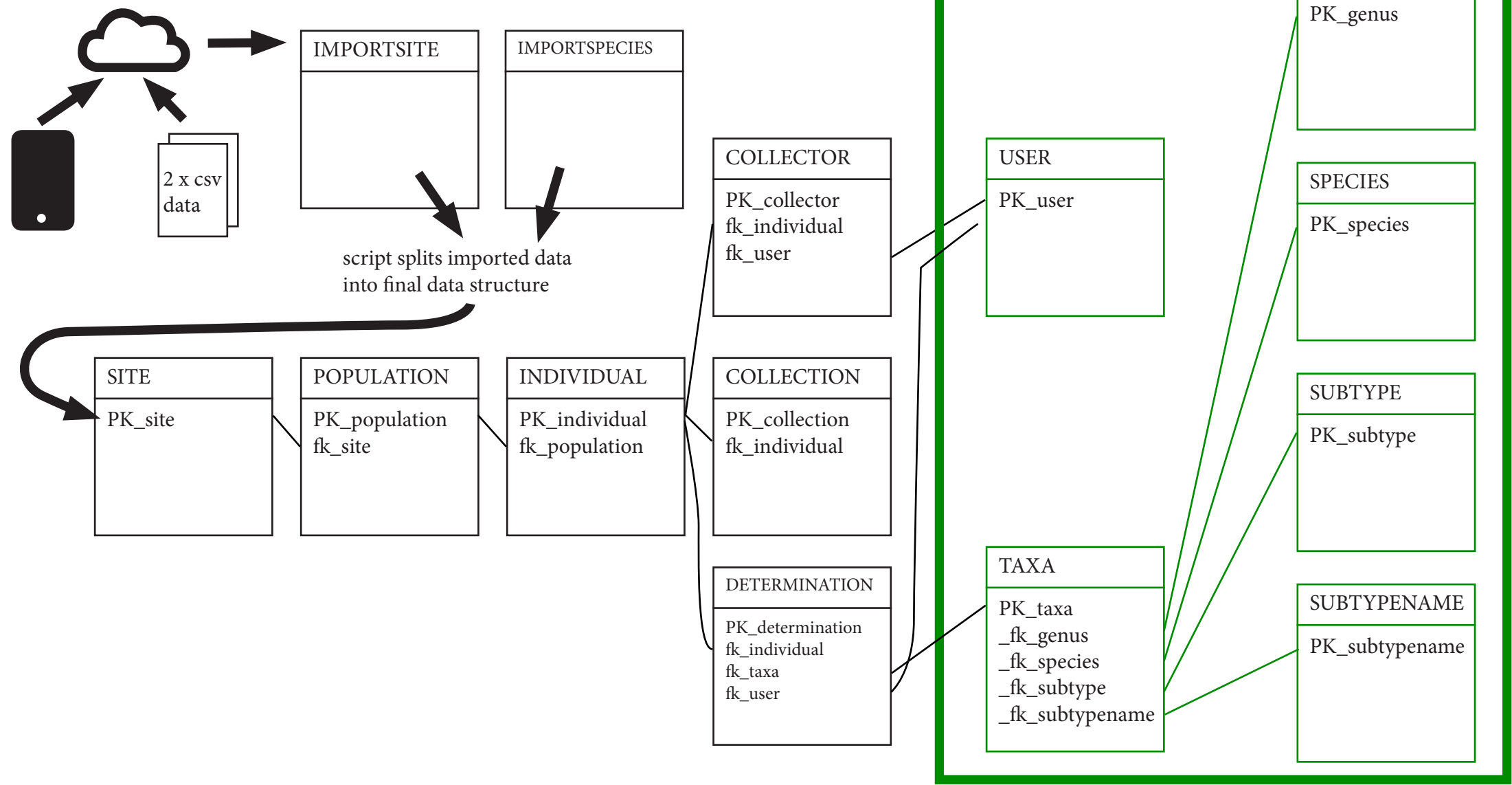
STAGE TWO: Upload data from mobile app/import spread sheets with data

api:uploadData(tableName)

upload site data to a importSite data table
upload species data to a importSpecies data table
from either mobile application or spreadsheets (via the web ui)

api:importData()

loop through the site and species tables split the data and create final database structure.



Stage 2: 8 new tables

IMPORTSITE

Fields from phone database???

IMPORTSPECIES

Fields from phone database???

SITE

__PK_site

_fk_tenure

Fields from phone database???

POPULATION

__PK_population

_fk_site

Fields from phone database???

INDIVIDUAL

__PK_individual

_fk_population

_fk_determination

_modificationTimestamp

COLLECTION -

should lat, long details be split into a common sub "POINT" record so reading and writing is faster & easier for the map?

__PK_collection

_fk_individual

type

barcode

fieldNumber

latitude

longitude

altitude

accuracy

dateCollected

dateSorted

dateMtAnnan

note

box

bundle

status

_modificationTimestamp

DETERMINATION

__PK_determination

_fk_taxa

_fk_user

_modificationTimestamp

COLLECTOR

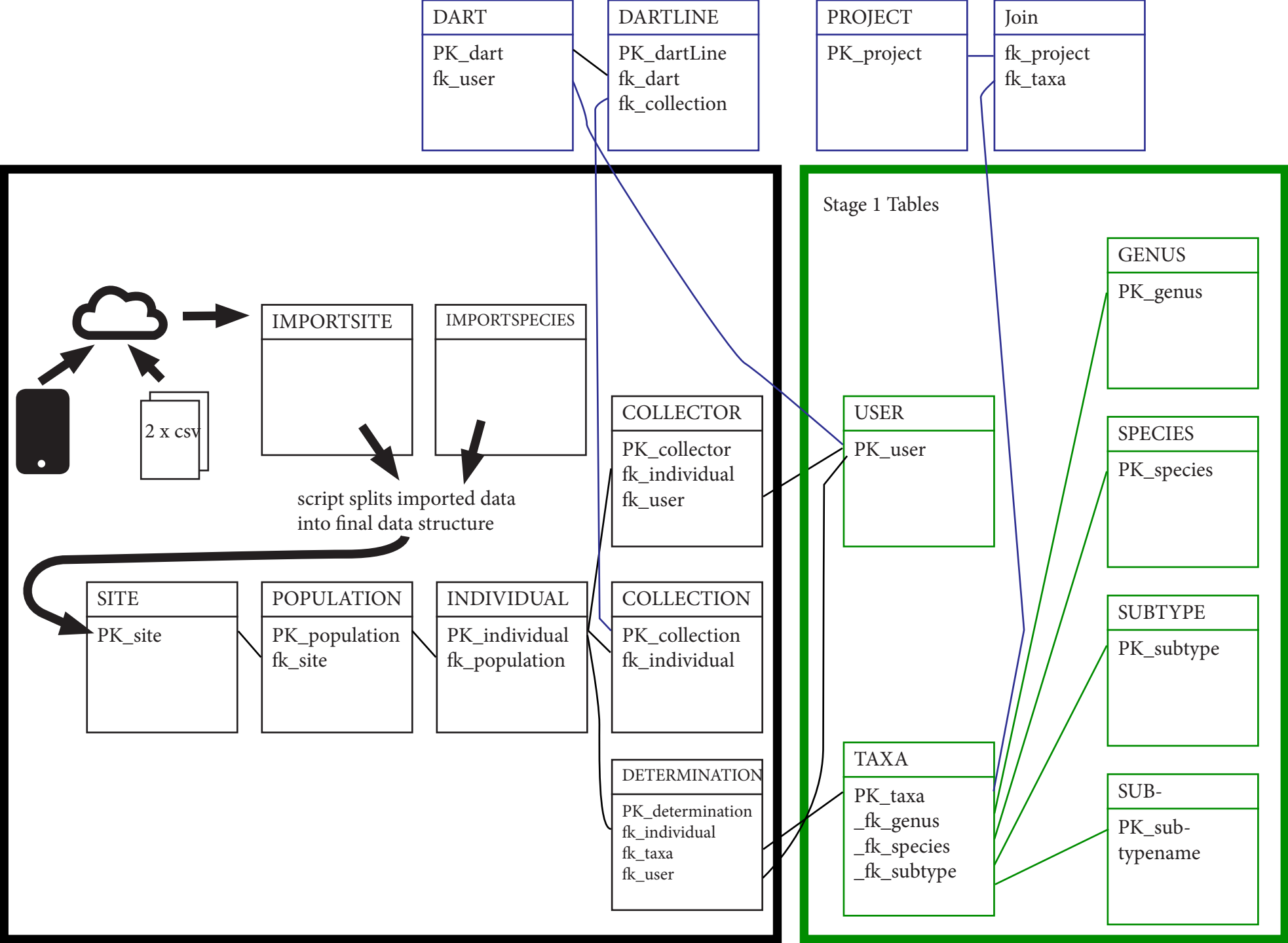
__PK_collectorw

_fk_user

_fk_individual

_modificationTimestamp

STAGE THREE: Web app UI



STAGE THREE: Web UI, 5 new tables

APC - Australian Plant Census Used to check if taxa names are correct.

Do we update this regularly from ALA api? Is that possible? Peter would know.

Also need taxa names split can we get that from ALA api already or do we need to pull the apart.

DART

__PK_dart
_fk_user
name
type (new, or associated?)
plates
dateOrdered
serviceNumber
bool_optimised
bool_sequenced
_modificationTimestamp

DARTLINE

__PK_dartLine
_fk_dart
_fk_collection
plate
row
column
_modificationTimestamp

PROJECT

__PK_project
name
dateStarted
dateCompleted
_modificationTimestamp

MAP

__PK_map
name
mapData?
_modificationTimestamp

Maps could have a "LAYER" table

with a name (i.e. Sample, Voucher, ALA, Survey)

with an icon

etc, you could add layers for a species?

you could make new layer types, i.e. import kmz files for soil, etc?

The map guys would probably have a routine way of doing this?

List View

Search within the selected area.

Sort columns by clicking the title

Do something with the listed data

Projects

Projects

Species

Collections

Dart

Maps

Users

RnR sample UI

Project (count)	Start Date	End Date	Species	Samples	
RnR	14/8/2019		(count)	(count)	
SOS	14/8/2019		(count)	(count)	
A	15/8/2019		(count)	(count)	
Test Project	22/8/2019		(count)	(count)	

+ Project

Brendan Wilde

Add new item Bottom Right

Detail View

Click a title to show the list view again

Do something with the listed data

RnR sample UI

Project

Projects

Species

Collections

Dart

Maps

Users

Project Name

RnR

Date Started

14/8/2019

Date Completed

Species (10)

Abacopteris aspera

Abildgaardia ovata

Abrophyllum ornans

Abutilon grandifolium

Brendan Wilde

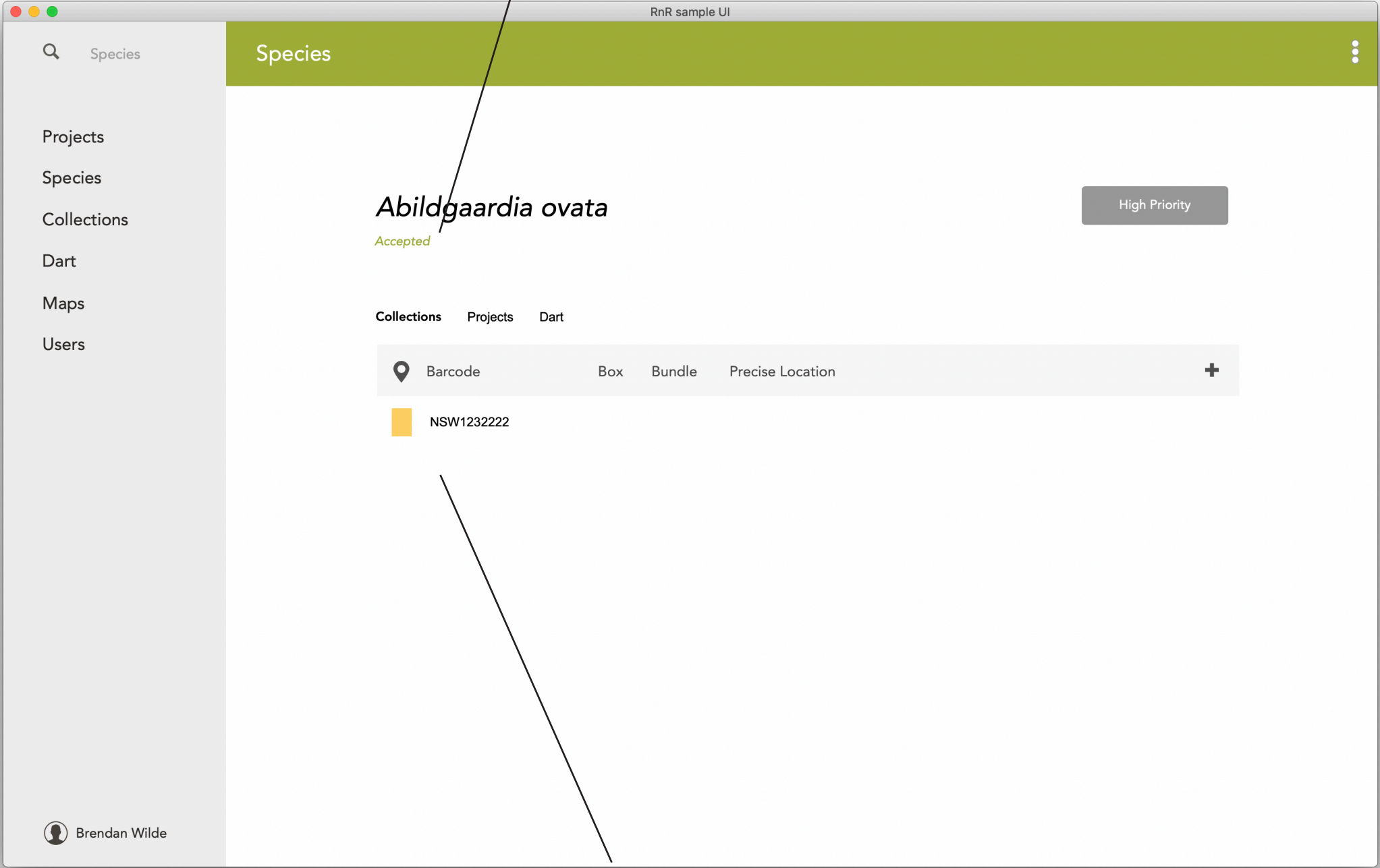
List View

RnR sample UI

<div>Q Species</div> <div>Projects</div> <div>Species</div> <div>Collections</div> <div>Dart</div> <div>Maps</div> <div>Users</div> <div> Brendan Wilde</div>	<div>Species (count)</div> <div>Viburnum suspensum</div> <div>Vicia hirsuta</div> <div>Vicia sativa</div> <div>Vicia sativa</div> <div>Vicia tetrasperma</div> <div>Vicia villosa</div> <div>Vigna vexillata</div> <div>Villarsia exaltata</div> <div>Villarsia reniformis</div> <div>Viminaria juncea</div> <div>Viola arvensis</div> <div>Viola betonicifolia</div> <div>Viola caleyana</div> <div>Viola fuscoviolacea</div>	<div>Collections</div> <div>(count)</div> <div>(count)</div> <div>(count)</div> <div>(count)</div> <div>(count)</div> <div>(count)</div> <div>(count)</div> <div>(count)</div> <div>(count)</div> <div>(count)</div> <div>(count)</div> <div>(count)</div> <div>(count)</div> <div>(count)</div>	<div>Priority</div> <div>Pending</div> <div>Pending</div> <div>Pending</div> <div>Pending</div> <div>Pending</div> <div>Pending</div> <div>Pending</div> <div>Pending</div> <div>Pending</div> <div>Pending</div> <div>Pending</div> <div>Pending</div> <div>Pending</div> <div>Pending</div>	<div>⋮</div> <div>+ Species</div>
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Detail View

Australian Plant Census
status for the species



Click to open the colleciton

Detail View

Q Dart

Projects

Species

Collections

Dart

Maps

Users

RnR sample UI

Dart

Ordered

Sent

Ready

RnR Tool

Mt Annan

24/2/2018

24/2/2018

24/2/2018

24/2/2018

24/2/2018

Order Name

Acacia delbata

Researcher

Service Number

Samples

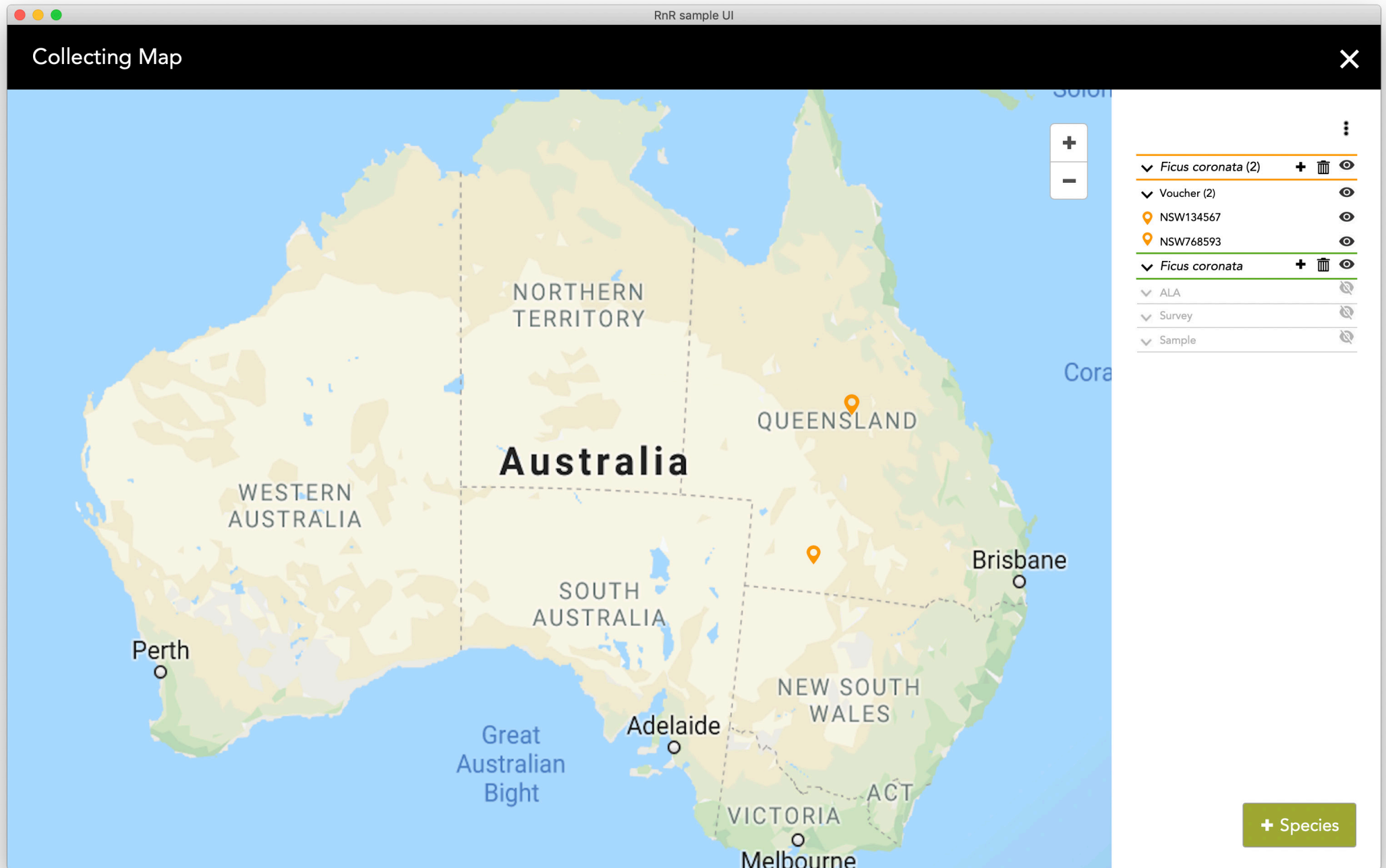
Co-order

Barcode

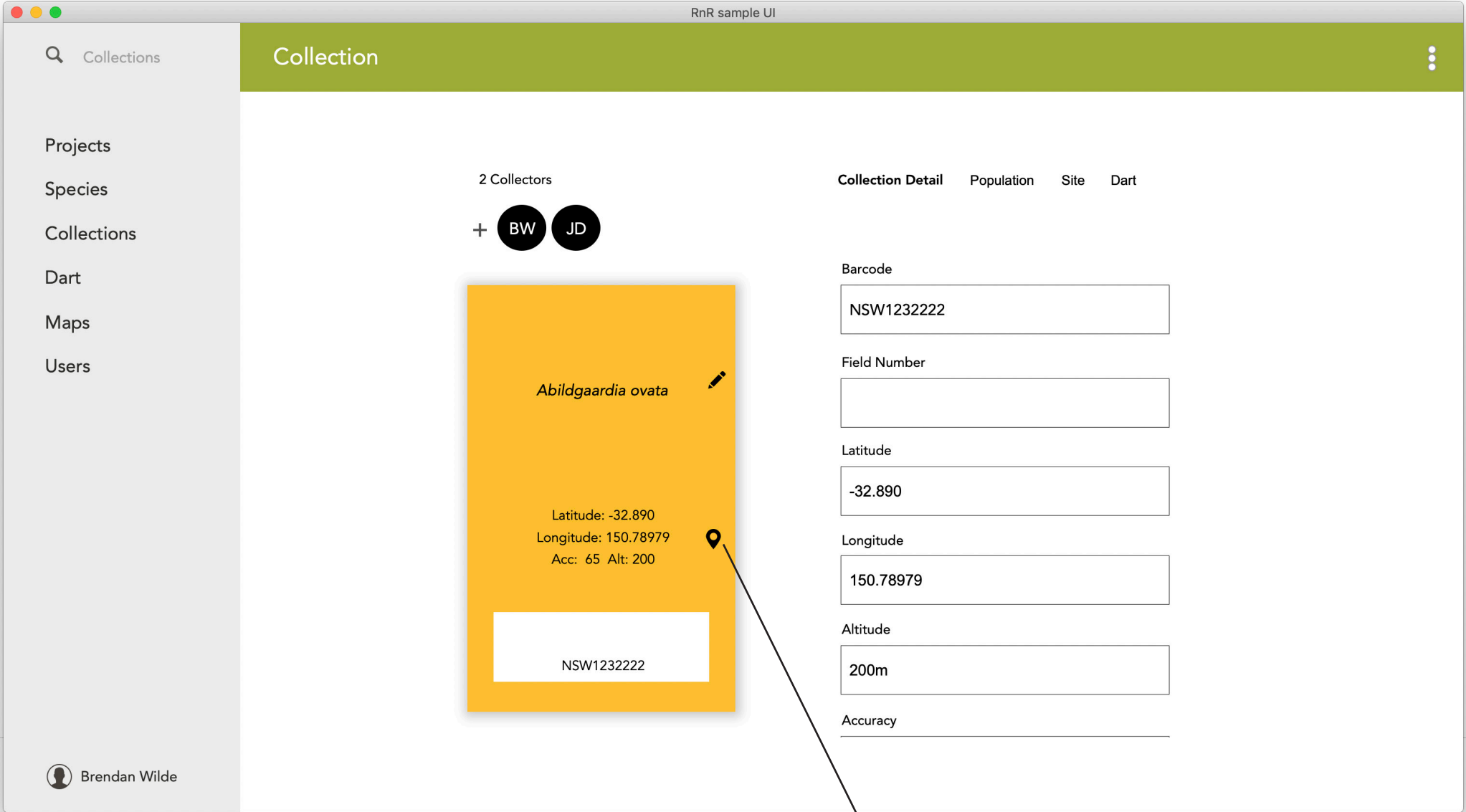
Previous Order

Brendan Wilde

Detail View



Detail View



Click the pin to open on the map

Detail View

Users

Projects

Species

Collections

Dart

Maps

Users

RnR sample UI

User

Brendan Wilde

Details

Collections

Dart

First Name

Brendan

Second Name

Wilde

Email

brendan@optusnet.com.au

Password

1234

☒ Collector

☒ Mobile App

☒ Web App

☒ Admin

Brendan Wilde

List View

Alert Icons show data is missing

🔍 Collections

Projects


Species

Collections














Dart

Maps

Users

 Brendan Wilde

RnR sample UI

Collection (count)	Species	Box	Bundle	Latitude	Longitude
 NSW1232222				-32.890	150.78979
 NSW123456788		A to B	23		
 NSW1256789		A to B	23		
 NSW1345678		A to B	23		

+ Collection

Process view

RnR sample UI

X

Sort Samples

Samples per bundle

5

Box

Bundle

Barcode

A to B

23

A to B

23

NSW1345678

⚠ Not Identified!

>

A to B

23

NSW1256789

⚠ Not Identified!

>

A to B

23

NSW123456788

⚠ Not Identified!

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