Users

Fredrica Farmer

A land owner, she will use the app to identify, store and retrieve the location of weeds and pests on her property as part of her weed and pest management plan.

Typical Scenario: Wandering the back paddock toward dusk, Fredrica notices a plant that looks like Fireweed. She uses the app to identify the plant, mark its location and take photos to add to a weed management plan. She will later use the app to help direct her back to the plant's location, for monitoring and eradication.

Belinda and Bob Bushwalker

As outdoor enthusiasts, Belinda and Bob use the app to identify, store data, and locate wildlife and plants they see during their adventures. They also use the app to indicate the location and other details of any rubbish they encounter on walks through State and National parks.

Typical Scenario: On a walk to the top of Mount Barney, Belinda and Bob use the app to help identify interesting flora and fauna they see. On their return, they notice a pile of rusted 20litre steel drums. They use the app to record the location, and take photos to assist Park and Forest officers with their park maintenance plans.

Harriet Horserider

As a stock woman, Harriet uses the app to store the locations of pests, and various jobs that need her attention she sees while riding and monitoring her cattle.

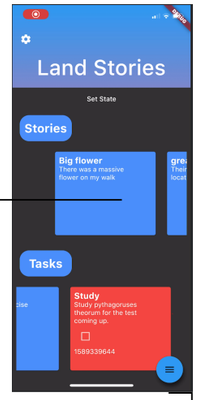
Typical Scenario: While mustering, Harriet sees evidence of wild boars, noticeably where the boars have busted through her fences. She uses the app the locate and record the damage to her fence. Once mustering is complete, she will use the app to return to fix the fence, and to inform the local hunter of the likely location of the pigs.

Robin Ryder

A mountain biker, and trail maintainer, Robin uses the app to record details about sections of the trails she rides that need attention or repairs.

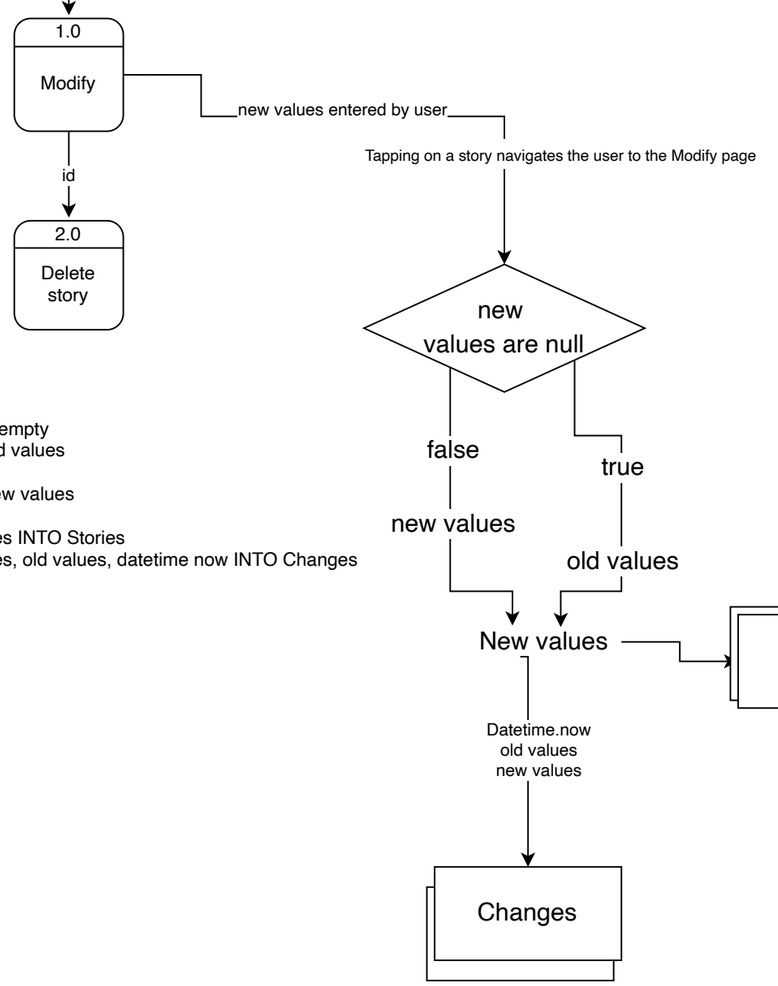
Typical Scenario: While riding mountain bike trails on Mt. Joyce, Robin records the location and condition of damaged sections of the trail. The information recorded will be passed on to the local trail-riders alliance to be added to their to do list.

StoryView



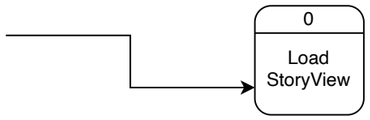
LOAD STORY VIEW

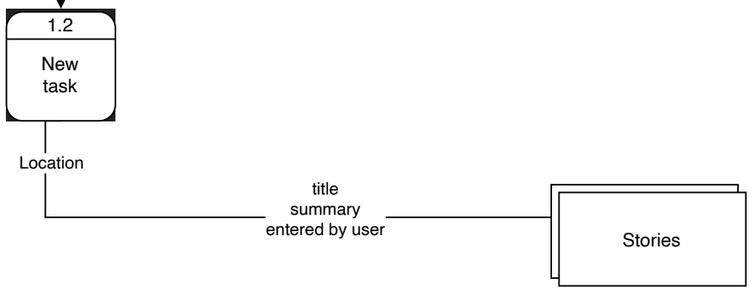
```
FOR EACH Task in Tasks
   IF task due datetime < current Datetime
      IF task is uncomplete
         task colour = red
      ELSE
         task colour = blue
       END IF
  ELSE
      task color = blue
   END IF
END FOR
```



MODIFY STORY

```
IF new values are empty
   new values = old values
ELSE
   new values = new values
END IF
INSERT new values INTO Stories
INSERT new values, old values, datetime now INTO Changes
```



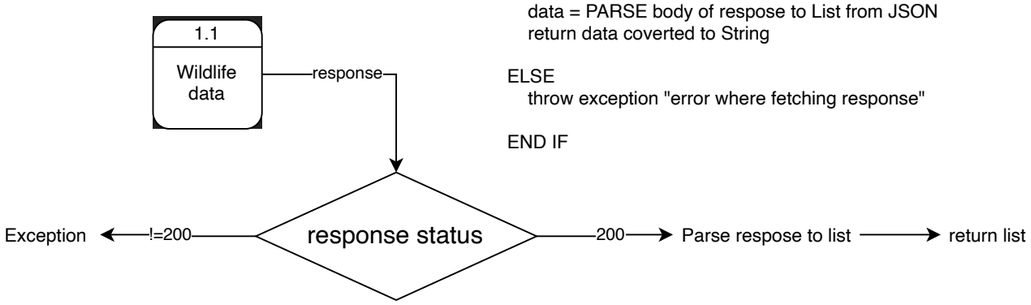


GET flora and fauna data

```
GET response from url
IF response status code == 200
   data = PARSE body of respose to List from JSON
   return data coverted to String

ELSE
   throw exception "error where fetching response"

END IF
```

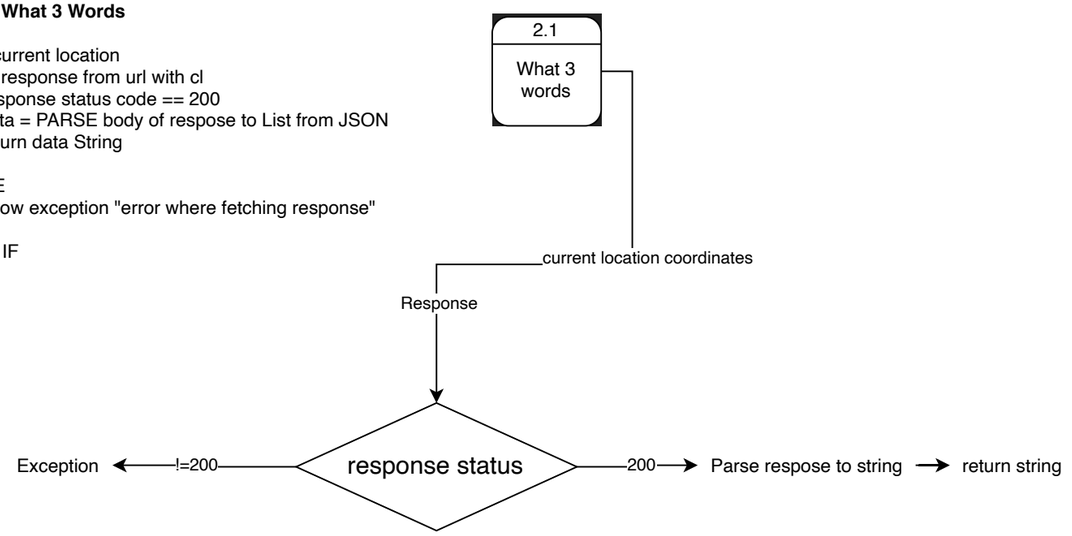


GET What 3 Words

```
cl = current location
GET response from url with cl
IF response status code == 200
   data = PARSE body of respose to List from JSON
   return data String

ELSE
   throw exception "error where fetching response"

END IF
```



In the future, the app will have some flora and fauna identification features.
To do this, the app will need some data about the different species, such as their common names, family names, and scientific names.
This data can be accesed from the QLD wildlife API.

DATASET DOCS

https://www.data.qld.gov.au/dataset/qld-wildlife-data-api

An example of the data:


```
{"Kingdom":[{"KingdomName":"Animalia","KingdomCommonName":"animals","ClassNamesUrl":"http:\/\/apps.des.qld.gov.au\/species\/?op=getclassnames&kingdom=animals"},
   {"KingdomName":"Chromista","KingdomCommonName":"chromists","ClassNamesUrl":"http:\/\/apps.des.qld.gov.au\/species\/?op=getclassnames&kingdom=chromists"},
    {"KingdomName":"Eubacteria","KingdomCommonName":"bacteria","ClassNamesUrl":"http:\/\/apps.des.qld.gov.au\/species\/?op=getclassnames&kingdom=bacteria"},
         {"KingdomName":"Fungi","KingdomCommonName":"fungi","ClassNamesUrl":"http:\/\/apps.des.qld.gov.au\/species\/?op=getclassnames&kingdom=fungi"},
       {"KingdomName":"Plantae","KingdomCommonName":"plants","ClassNamesUrl":"http:\/\/apps.des.qld.gov.au\/species\/?op=getclassnames&kingdom=plants"},
     {"KingdomName":"Protista","KingdomCommonName":"protists","ClassNamesUrl":"http:\/\/apps.des.qld.gov.au\/species\/?op=getclassnames&kingdom=protists"},
  {"KingdomName":"Protozoa","KingdomCommonName":"protozoans","ClassNamesUrl":"http:\/\/apps.des.qld.gov.au\/species\/?op=getclassnames&kingdom=protozoans"}]}
```