

OwnPhotos

Week 4

2020.01.30



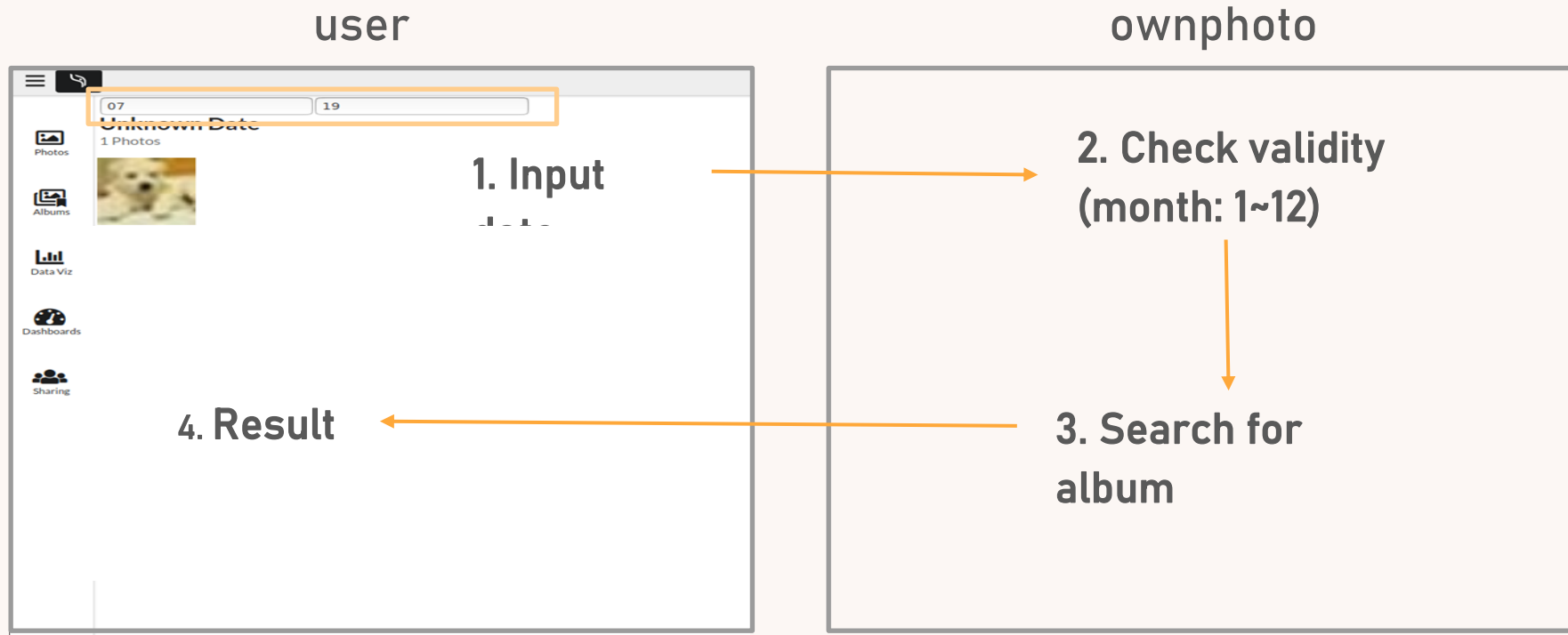
What We Did This Week



Frontend

- Design API to get info
- Create interface mockups
- Implement feature to browse date

Design API to browse by month/year



Design API to browse by month/year

user

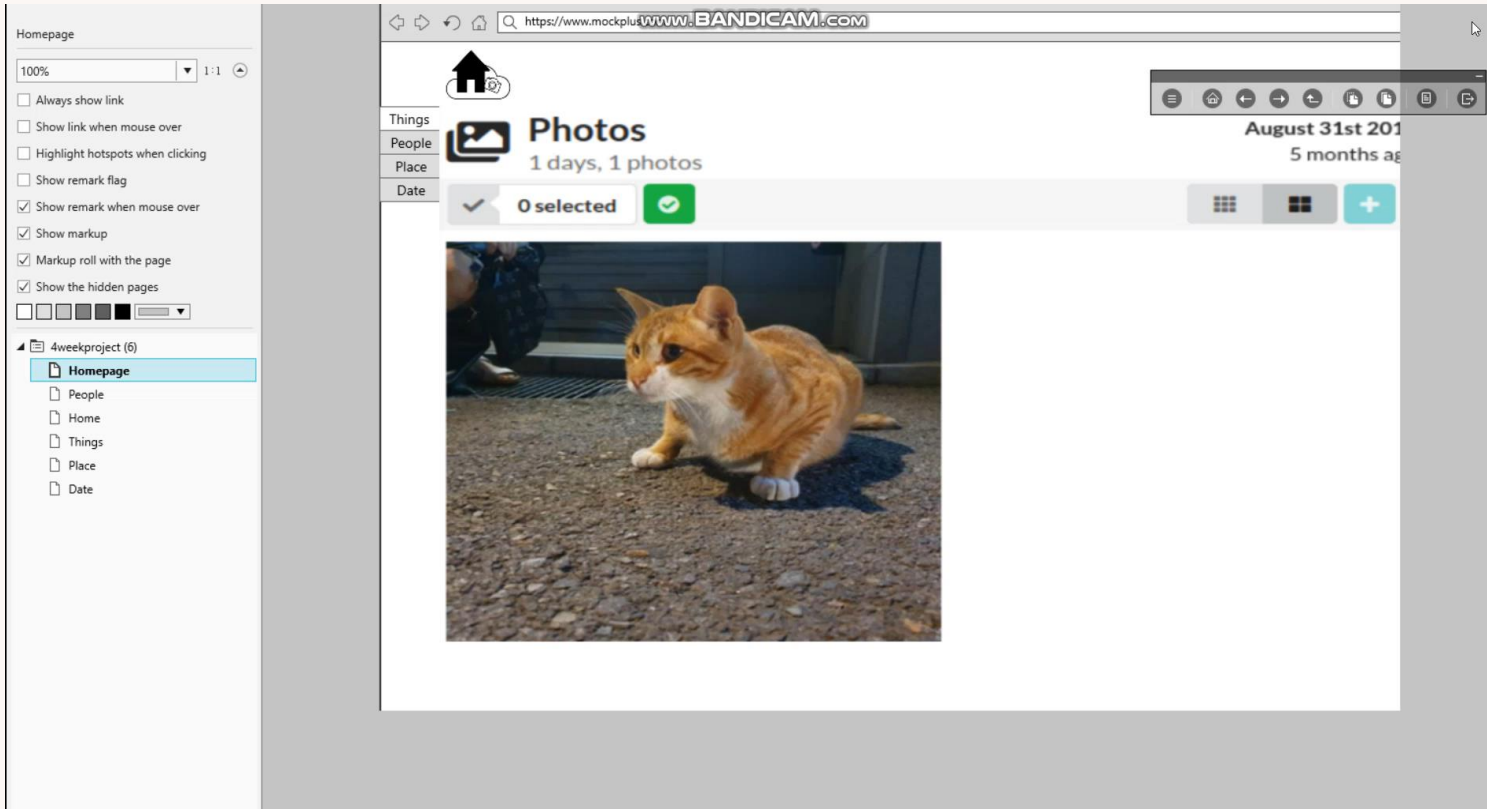
```
getMonth(e){
  this.setState({
    month_txt : e.target.value
  });
}
getDay(e){
  this.setState({
    day_txt : e.target.value
  });
}
const month_txt = this.state.month_txt;
const day_txt = this.state.day_txt;
return (
  <div>
    <input
      value={month_txt}
      onChange={this.getMonth} />
    <input
      value={day_txt}
      onChange={this.getDay} />
    {renderable}
  </div>
```

ownphoto

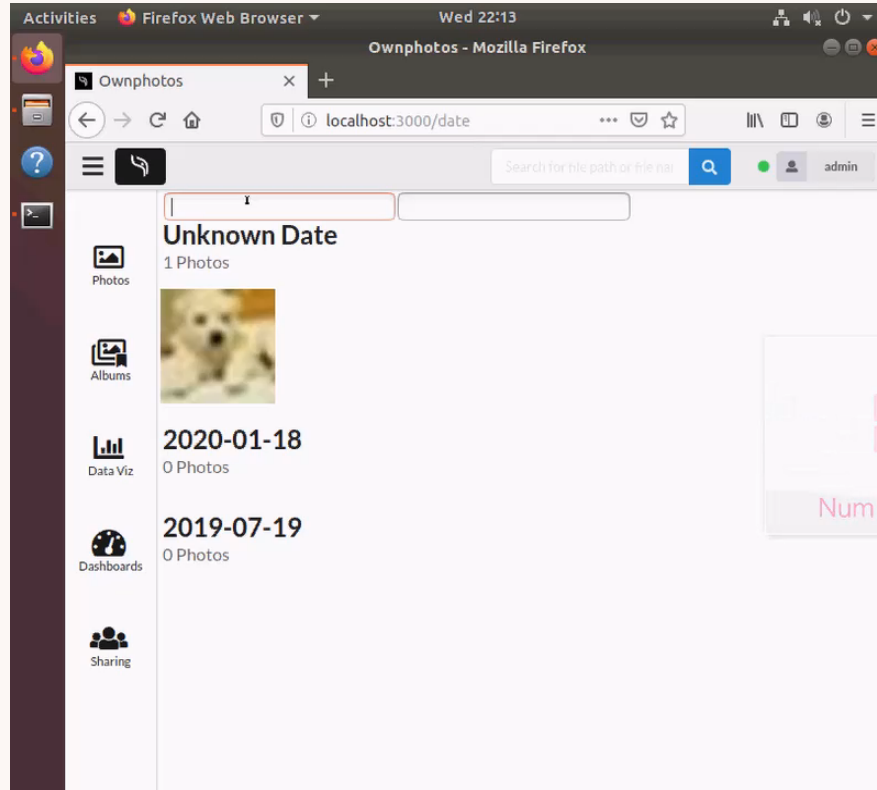
```
this.props.photos.map(function(photo){
  if (photo.exif_timestamp != null) {
    var date = photo.exif_timestamp.split('T')[0]
    var month = date.substring(5,7)
    var day = date.substring(8,10)

    if(! photosGroupedByDate.hasOwnProperty(date)){
      photosGroupedByDate[date] = []
    }
    if(curMonth == 13 && curDay == 32){
      photosGroupedByDate[date].push(photo)
    } else if(curMonth == month && curDay == 32){
      photosGroupedByDate[date].push(photo)
    } else if(curMonth == 13 && curDay == day){
      photosGroupedByDate[date].push(photo)
    } else if(curMonth == month && curDay == day){
      photosGroupedByDate[date].push(photo)
    }
  }
  else {
    photosGroupedByDate['Unknown Date'].push(photo)
  }
})
return photosGroupedByDate
```

Create interface mockups

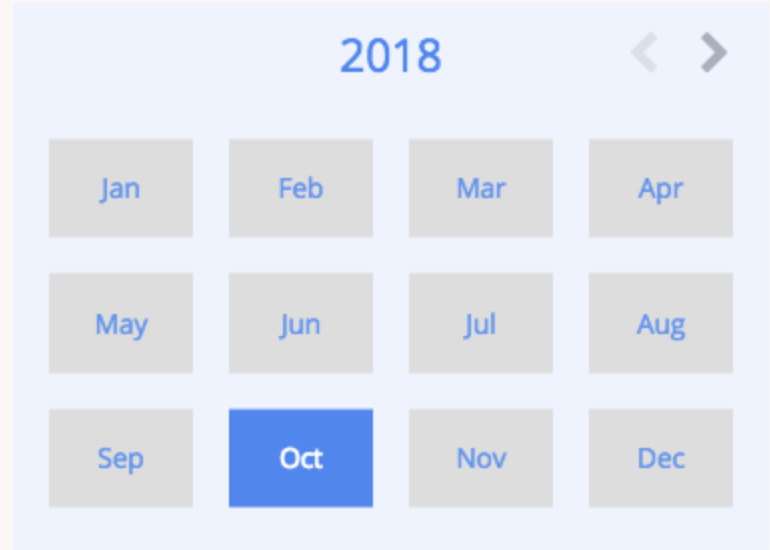


Implement features to browse date



Next week

1. Change day to year
2. Improve input UI

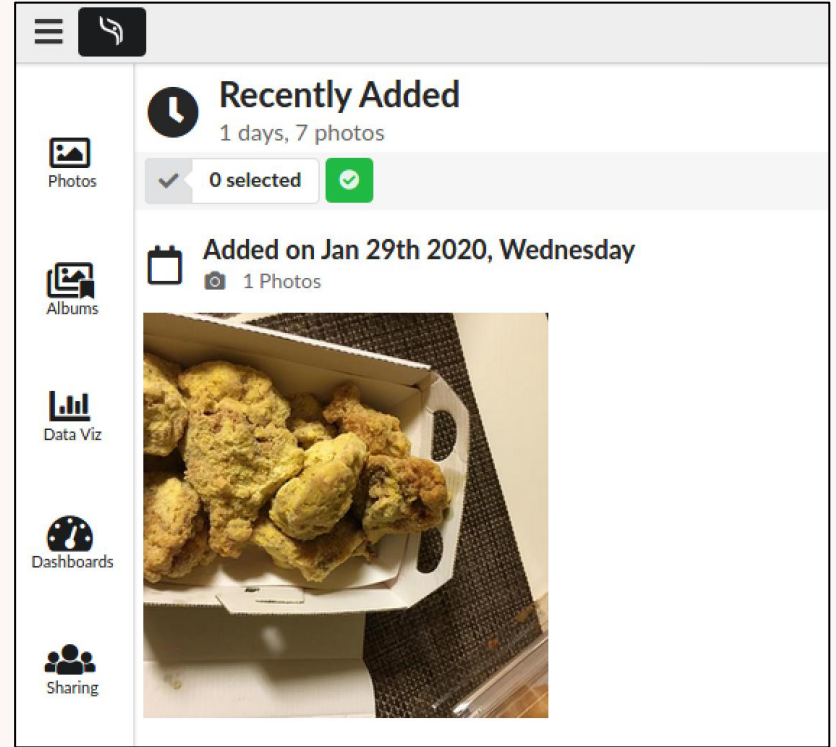


Backend

- Support more extensions !
- We support png besides jpg.
- Documentation is on pending.

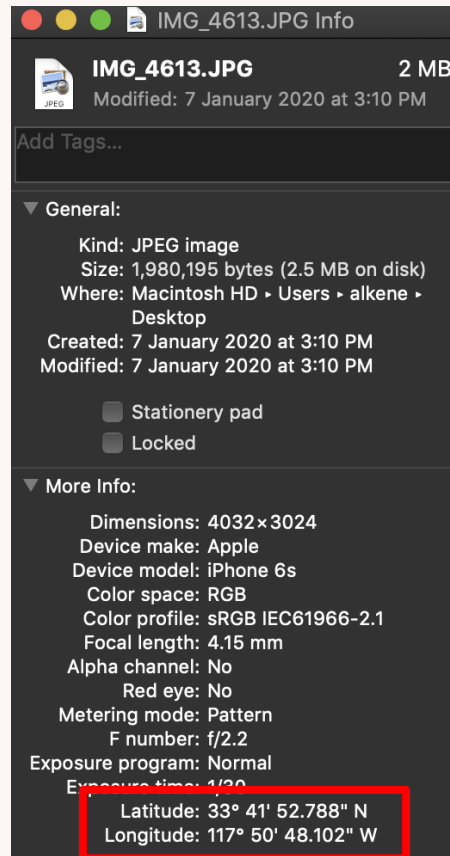
Backend

```
alkene@ubuntu:~/Pictures/Alkene$ ls -al
total 33796
drwxrwxrwx 2 alkene alkene 4096 Jan 30 12:29 █
drwxr-xr-x 3 alkene alkene 4096 Jan 7 15:16 ..
-rwxrwxrwx 1 alkene alkene 1980195 Jan 7 15:10 IMG_4613.JPG
-rw-r--r-- 1 root root 787583 Jan 29 16:43 box.jpg
-rwxrwxrwx 1 alkene alkene 15053661 Jan 28 14:52 box.png
-rw-r--r-- 1 alkene alkene 16742138 Jan 29 16:40 chicken.png
-rwxrwxrwx 1 alkene alkene 19255 Jan 7 11:18 maxresdefault.jpg
-rw-r--r-- 1 root root 703 Jan 28 15:05 test.py
alkene@ubuntu:~/Pictures/Alkene$ _
```



Backend

- Extract GPS info from image



Backend

- Extract GPS info from image

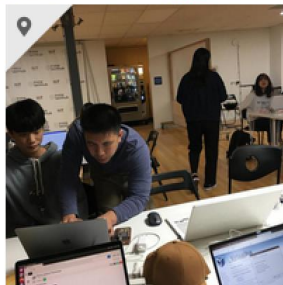
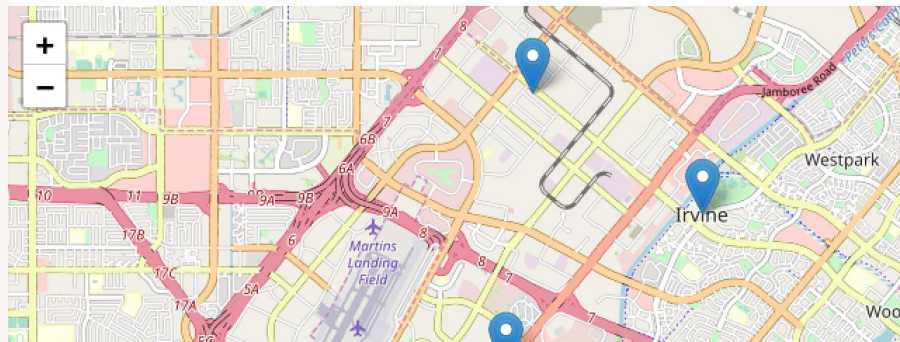
```
if 'GPS GPSLongitude' in exif.keys():
    self.exif_gps_lon = util.convert_to_degrees(
        exif['GPS GPSLongitude'].values)
    # Check for correct positive/negative degrees
    if exif['GPS GPSLongitudeRef'].values != 'E':
        self.exif_gps_lon = -self.exif_gps_lon
else:
    self.exif_gps_lon = None

if 'GPS GPSLatitude' in exif.keys():
    self.exif_gps_lat = util.convert_to_degrees(
        exif['GPS GPSLatitude'].values)
    # Check for correct positive/negative degrees
    if exif['GPS GPSLatitudeRef'].values != 'N':
        self.exif_gps_lat = -self.exif_gps_lat
else:
    self.exif_gps_lat = None
```

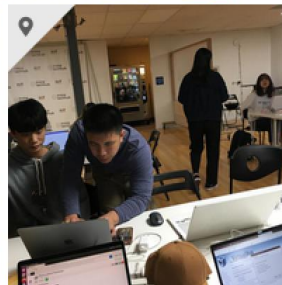


Places


Showing 2 places on the map



Irvine
1 Photos



Kettering Street
1 Photos

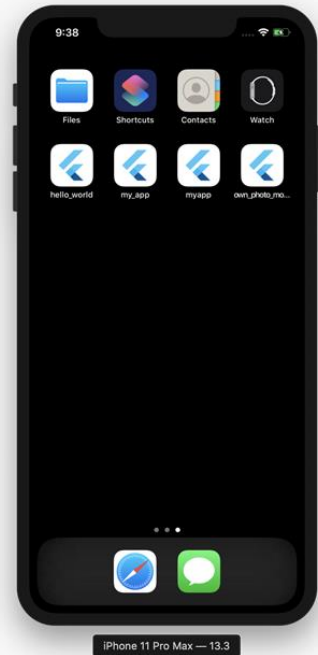
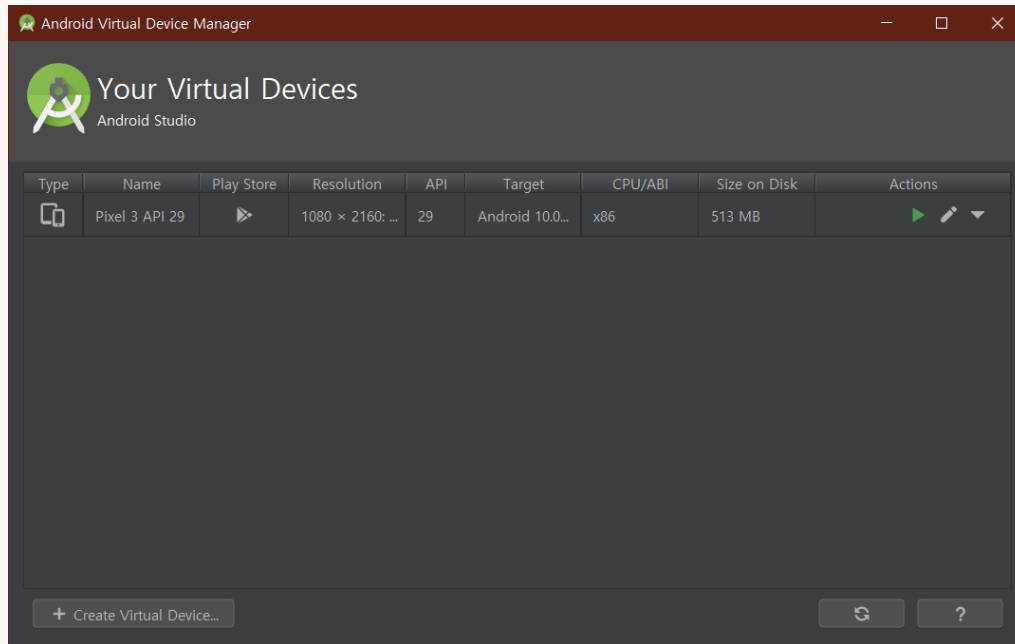


Mobile

- Android Studio Install & Setup
- Study a Dart Language

Mobile

Android Studio Install & Setup



Mobile








```
main.dart x
1  import 'package:flutter/material.dart';
2
3  void main() => runApp(MyApp());
4
5  class MyApp extends StatelessWidget {
6    // This widget is the root of your application.
7    @override
8    Widget build(BuildContext context) {
9      return MaterialApp(
10         title: 'Flutter Demo',
11         theme: ThemeData(
12           // This is the theme of your application.
13           //
14           // Try running your application with "flutter run". You'll see the
15           // application has a blue toolbar. Then, without quitting the app, try
16           // changing the primarySwatch below to Colors.green and then invoke
17           // "hot reload" (press "r" in the console where you ran "flutter run",
18           // or simply save your changes to "hot reload" in a Flutter IDE).
19           // Notice that the counter didn't reset back to zero; the application
20           // is not restarted.
21           primarySwatch: Colors.blue,
22         ),
23         home: MyHomePage(title: 'Flutter Demo Home Page'),
24       );
25     }
26   }
27
28   class MyHomePage extends StatefulWidget {
29     MyHomePage({Key key, this.title}) : super(key: key);
30
31     // This widget is the home page of your application. It is stateful, meaning
```

Study a Dart Language



Dart

What We Have To Do Next

Description	Rem Dur	Jan					Feb		
		2	9	16	23	30	6	13	20
Start the project									
Setup development and git environment	5								
Create login page to connect to own photo backend	7								
Create more pages to see photo	14								
Support live photos and another extension	20								
Create interface to browse month/year	14								
Finish the project									

Thank you for listening
Q & A