

Sidewalk Repair Project

(LA City Bureau of Engineering)



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Introduction



BEFORE_0014AX_20170801...jpg



AFTER_0014AX_20171101....jpg





Los Angeles Photo Archive App

- Document Sidewalk Photos
 - Before/After Repairs
 - Repair Task ID
 - Permit Number
 - Latitude/Longitude
- Azure Database





Category

Field

Value



Sidewalk Repair

Permit No.

#5678

Work Order No. #AB123

Initial Assessment

Coordinates/Lat 34.068438

Work Status

Coordinates/Lon -118.362771



Sidewalk Repair

Ref No.

#5645

Permit No.

#U5698

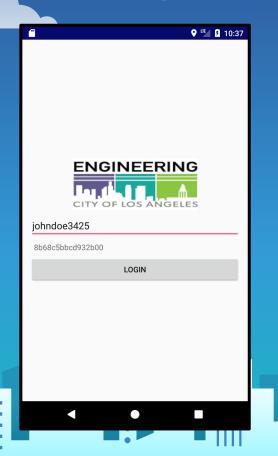
Work Status

Completed

Coordinates/Lat 34.064404

Coordinates/Lon -118.173100

Login Screen and Dashboard





Categories and Uploading Auto-Populating Fields from Database

BoE Database

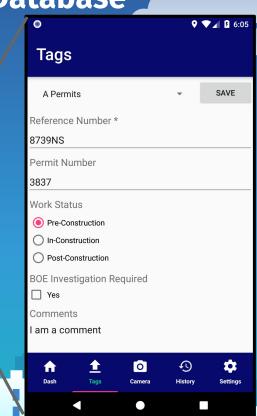
LAPA Lin

Link

10/21/2018

BOE Investigation Required







Camera

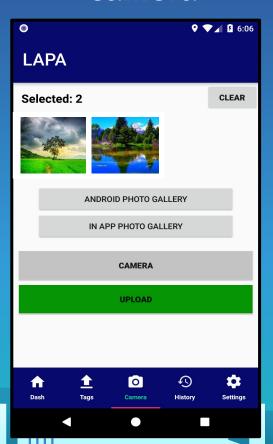
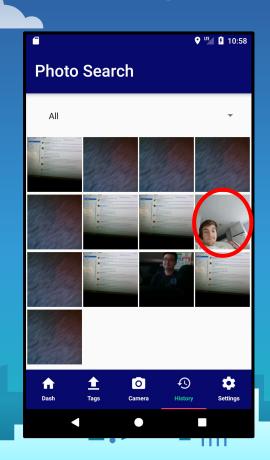
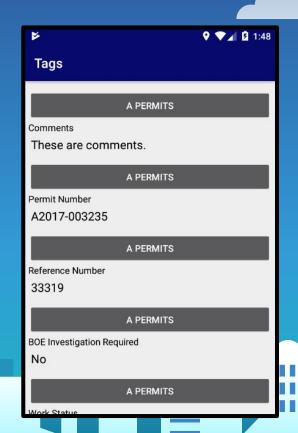


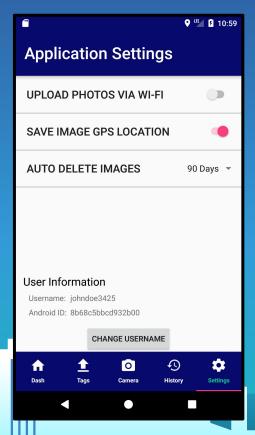


Image History & Tags Viewer





Settings Tab





How it Works: Image Storage











How it Works : Image Retrieval

Id	ImageID	CategoryID	FieldID	Value	CreatedAt
12345asd	asd_image2	Scenery	ImageOf	A Lake	2018-03-06



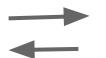


Image2

Category: A Permits

Field: ImageOf **Value**: A Lake.

Field: Comments

Value: This is a picture of a

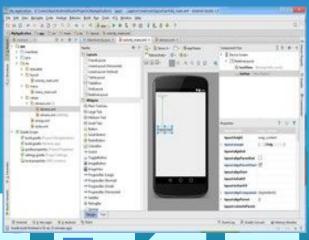
beautiful scenery.

Android Studio

- 1. Android Java
- 2. Provided a suite of tools to work on layout
- 3. Easy to manage tablet layout
- 4. Check Device Storage
- 5. Provides Emulation for Testing







Visual Studio 2017

- 1. C# Web Service
- 2. Used to design and host the Azure Backend Web Service
- 3. Uses an MVC approach
- 4. Instant Web Publishing





Lessons Learned

- 1. Learning New IDEs and Cloud Services
- 2. Establishing naming convention
- 3. Working as a team





Future Potential Improvements

- 1. Search by Tags Filter
- 2. Geolocation for Photos
- 3. Offline Caching





Thank You!

Special Thanks to the LA City Bureau of Engineering!



