Photo Archive for the Bureau Of Engineering (PABOE)

CS4961 & CS4962 Senior Design

Project Document

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Photo Archive BOE

(PABOE)
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Section 1: Executive Summary

TBD

Section 2: Introduction

P.A.B.O.E is a cross platform mobile application that will allow employees, from here on will be referred to as User(s), of the Bureau of Engineering to take relevant photos while working on any project, tag said photo with relevant information, and store it in the cloud. The User(s) will also be able to tag and upload photos not taken within the app to the cloud; as well as, recall all photos stored in the cloud through the app.

Section 3: User Guide

This section provides a general walkthrough of the system from initiation through exit. The logical arrangement of the information shall enable the functional personnel to understand the sequence and flow of the system. Use screen prints to depict examples of text under each heading.

3.1 Requirements

<table>
<thead>
<tr>
<th>Activity</th>
<th>New Capability</th>
<th>Feature Enhancement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field Deployment</td>
<td>1a - Any Bureau of Engineering employee can use the app to take a relevant photo for a specific project and upload to the cloud database over wifi</td>
<td>1b – allow both Bureau of Engineering employees; as well as, any one from the public domain to take a photo and send to the cloud database.</td>
</tr>
</tbody>
</table>
### 3.2 User Instructions

#### 3.2.1 iOS

**3.2.1.1 Logging On**

In order to use P.A.B.O.E you must be a current employee of the B.O.E and have a valid Username and Password.

The Username will be the Employee’s City ID number

The Password will be the same one used when logging into a B.O.E desktop system.

Tap Login to verify the credentials. If everything is correct the employee will have complete access to the app and the Dashboard page (3.X) will appear.
3.2.1.2 System Menu

P.A.B.O.E is a tabular app; which means, that the functions of each tab on the app are completely intertwined. The tabs are as follows:

<table>
<thead>
<tr>
<th>Dashboard</th>
<th>Tagging</th>
<th>Camera</th>
<th>History</th>
<th>Settings</th>
</tr>
</thead>
</table>

3.2.1.2.1 Dashboard Tab

The Dashboard allows a User to get a general view of whether the User is able to use the app to the best of its ability.

Tags that are used to describe a photo taken by a User are up to date with the document in the Azure web portal.

Permission Configuration Status tells the User if he/she has granted the app the correct decisions in order for the app to work. I.e. Allow the app access to the Users phone camera.

Photos to be uploaded is a cue that a User can scroll through of tagged photos waiting to be uploaded via Wifi.

NOTE: Tagged Photos are only allowed to be uploaded via WIFI.
3.2.1.2.2 Tagging Tab

The Tagging Tab allows a User to select images; taken from within the app and/or outside the app; that have not yet been tagged and apply them to multiple photos.

Users can either scroll or get a sum total view of all non-tagged images taken within the app and select them here.

Users select images to import into the app for tagging and/or select by scrolling through imported photos.

Here Users select tag(s) for select pictures above and tap the Upload button to send pictures to the Upload cue.
3.2.1.2.3 Camera Tab

The Camera Tab is where Users can take pictures with the App.

Users can preselect Tags for multiple pictures that might be taken at one time within the app.

Users can view selected Tags and/or add/remove them respectively.

Any pictures taken within the app that are not tagged will be sent to the Tagging page for the untagged cue; however, pictures taken with tags are automatically cued for upload over WIFI.

Tap the Open Camera button to access the Users phone camera.
3.2.1.2.4 History Tab

The History tab allows a User to view all photos uploaded to Azure Web Services.

Users can search for specific photos based upon tag names.

Thumbnails are set up for easy, quick, and efficient viewing with scrollable capability. However, if a thumbnail is tapped a larger full resolution photo will load.
3.2.1.2.5 Settings Tab

The Settings Tab is where a User can confirm whether the app is being run to its fullest potential.

Users can choose to either allow the app to use mobile data to send multiple pictures to Azure web services or to wait for a solid WIFI connection to do so.

Users can choose to save old photos in case a photo is needed on another project and needs to be retagged. Or a User can choose to let all photos that have been uploaded to Azure are automatically deleted.

The delete after X_Days is a feature in which a fixed time frame of when already uploaded photos are preeminently deleted from the app/

Tap the Logout button if you wish to exit the application.
### 3.2.1.3 Exit System

In order for you to Exit the app you must:

1. Tap on the Settings tab below

2. Tap the Logout button.

**NOTE:** If you do Logout you will need to reenter your credentials when you start the app up again.
3.2.2 Android

3.2.2.1 Logging In
TBD

3.2.2.2 System Menu
TBD

3.2.2.2.1 Dashboard Tab
TBD

3.2.2.2.2 Tagging Tab
TBD

3.2.2.2.3 Camera Tab
TBD

3.2.2.2.4 History Tab
TBD

3.2.2.2.5 Settings Tab
TBD

3.2.2.3 Exit System
TBD

Section 4: Lifelong Learning

Each member of the group has given their learning experience below.
4.1 Stephanie Daley  TBD
4.2 Nikko De Guzman  TBD
4.3 Phillip Gulegin  TBD
4.4 Alejandra Monteon Sanches  TBD
4.5 Edwin Ochoa  TBD
4.6 Felipe Vega  TBD

Section 5: Architecture and Design
The main components of this Photo Archive, shown in the DFD above, each belong to one of three major categories: database, storage, or distribution.

### 5.1 Database

TBD

### 5.2 Storage

TBD

### 5.3 Distribution

TBD

### Section 6: Conclusion

TBD

### Section A: ACRONYMS

<table>
<thead>
<tr>
<th>ASC</th>
<th>Azure Storage Container</th>
</tr>
</thead>
<tbody>
<tr>
<td>CM</td>
<td>Camera Module</td>
</tr>
<tr>
<td>DM</td>
<td>Dashboard Module</td>
</tr>
<tr>
<td>HM</td>
<td>History Module</td>
</tr>
<tr>
<td>MDIG</td>
<td>Mobile Device Image Gallery</td>
</tr>
<tr>
<td>PABOE</td>
<td>Photo Archive for the Bureau of Engineering</td>
</tr>
<tr>
<td>SM</td>
<td>Settings Module</td>
</tr>
<tr>
<td>SSD</td>
<td>SQL Server Database</td>
</tr>
<tr>
<td>TM</td>
<td>Tag Module</td>
</tr>
</tbody>
</table>