

POSIT/ANDROID

Antonio Alcorn

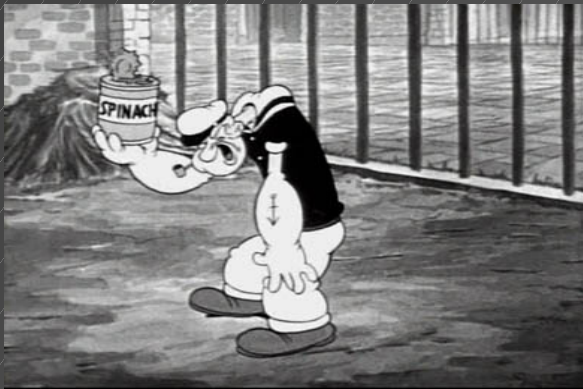
Gong Chen

Chris Fei

Qianqian Lin

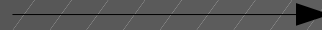
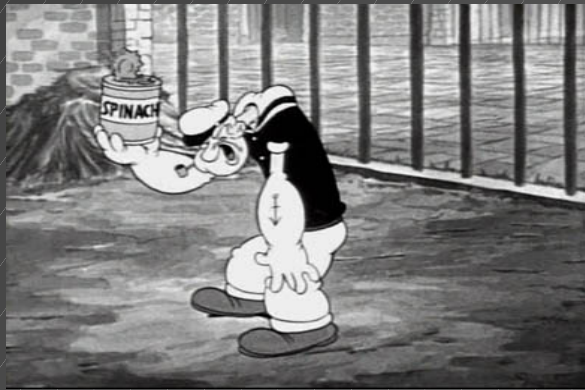
Our Mission:

- To build out POSIT into a more ROBUST, user-friendly application



Our Mission:

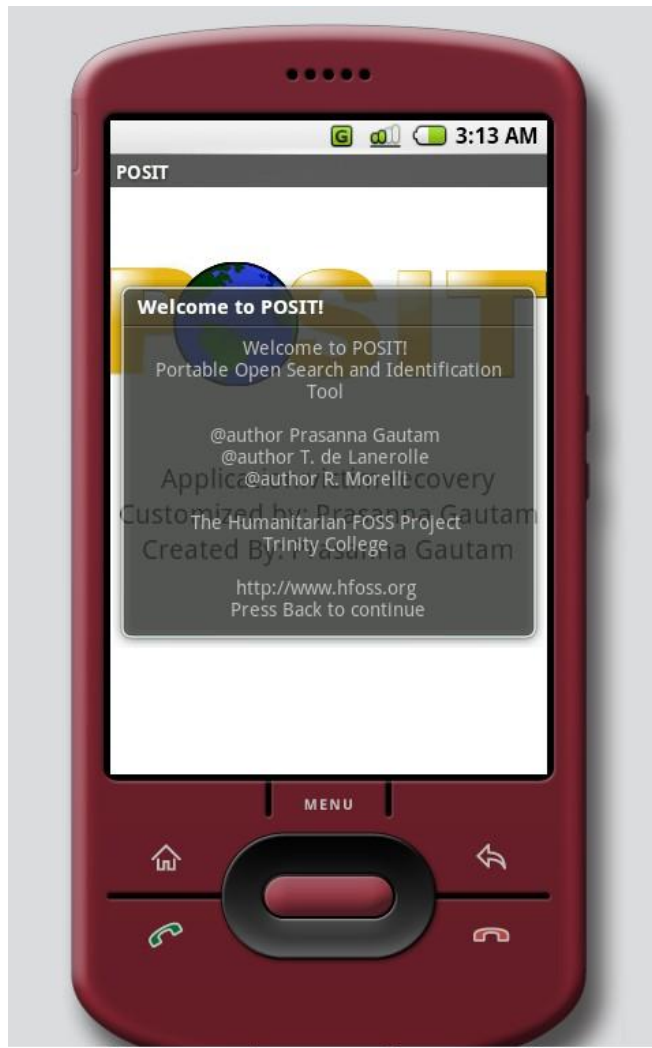
- To build out POSIT into a more ROBUST, user-friendly application



Refresher: What is Android?

- Mobile Application Platform
- Java based
- Different applications based on Activity class
- Applications run in own Unix process in own virtual machine

About POSIT

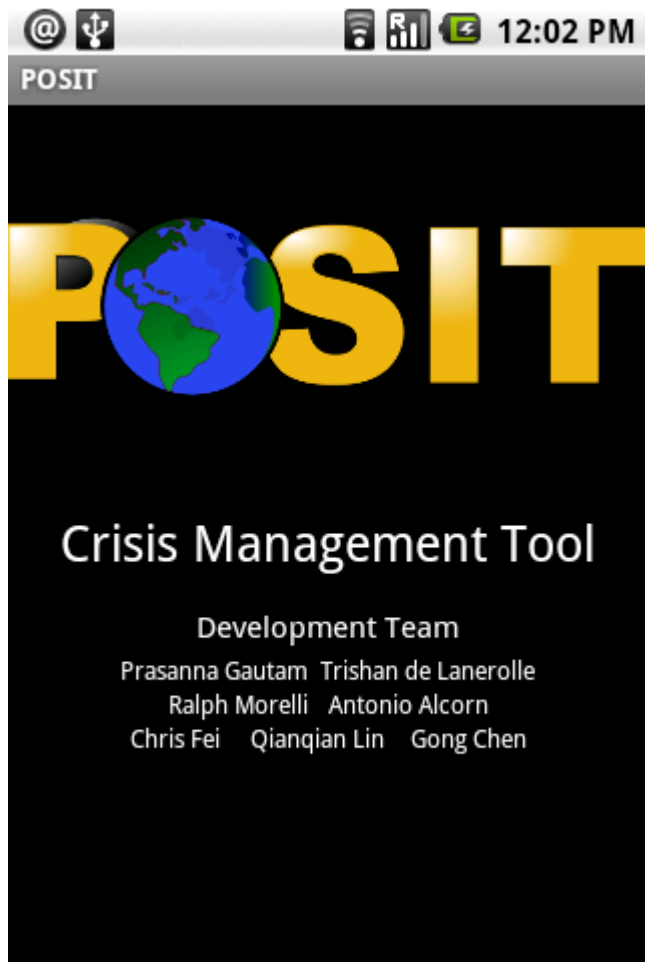


- Portable Open Search and Identification Tool
- Built on the Google Android platform
- Written by Prasanna Gautam, Trishan deLanerolle and Professor Ralph Morelli

Our Main Goals

- Build out POSIT and turn it into a Robust Application
- Build a better interface with the server
- Allow the phone to synchronize well with the server
- Build a more user-friendly interface
- Change the architecture to MVC
- Implement interface of ad hoc network

Catching Up and Familiarizing with Android



- Went through tutorials
- Fixed landscape layout formatting, date/time formatting



Making the GPS work

Before

The screenshot shows a mobile application interface with a dark background. At the top, there is a status bar with icons for USB, Wi-Fi, signal strength, battery, and alarm, and the time 1:34 PM. Below the status bar is a header labeled "POSIT". The main content area contains several fields: "Latitude" and "Longitude" (both empty), "Date and Time" (2009/5/12 13:34), "Id:" (with a "Read Barcode" button and an empty input field highlighted with an orange border), "Name" (with an empty input field), and "Description" (with an empty input field).

After

The screenshot shows the same mobile application interface as the "Before" state, but with GPS data populated. The status bar now shows an additional location icon and the time 1:32 PM. The "Latitude" field now contains the value 41.745107 and the "Longitude" field contains -72.69067. The "Date and Time" field now shows 2009/5/12 13:32. The "Id:" field still has the "Read Barcode" button and the empty input field highlighted with an orange border. The "Name" and "Description" fields remain empty.

Only One Picture Needed

Before

1:37 PM

POSIT

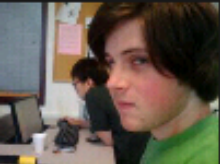
Latitude 41.745072 Longitude -72.69075

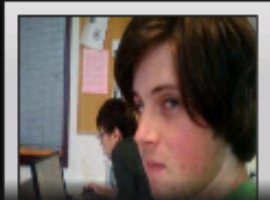
Date and Time 2009/5/10 16:2

Id:

Name

Description





After

1:38 PM

POSIT

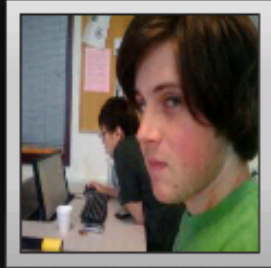
Latitude 41.745072 Longitude -72.69075

Date and Time 2009/5/10 16:2

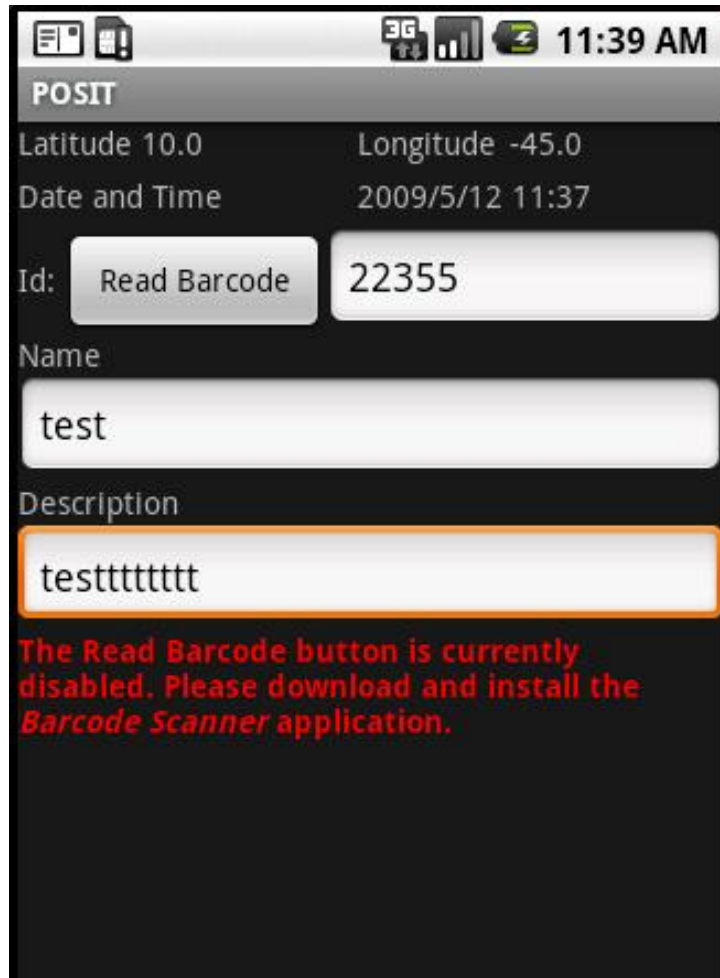
Id:

Name

Description



Barcode Scanning



POSIT

Latitude 10.0 Longitude -45.0

Date and Time 2009/5/12 11:37

Id:

Name

Description

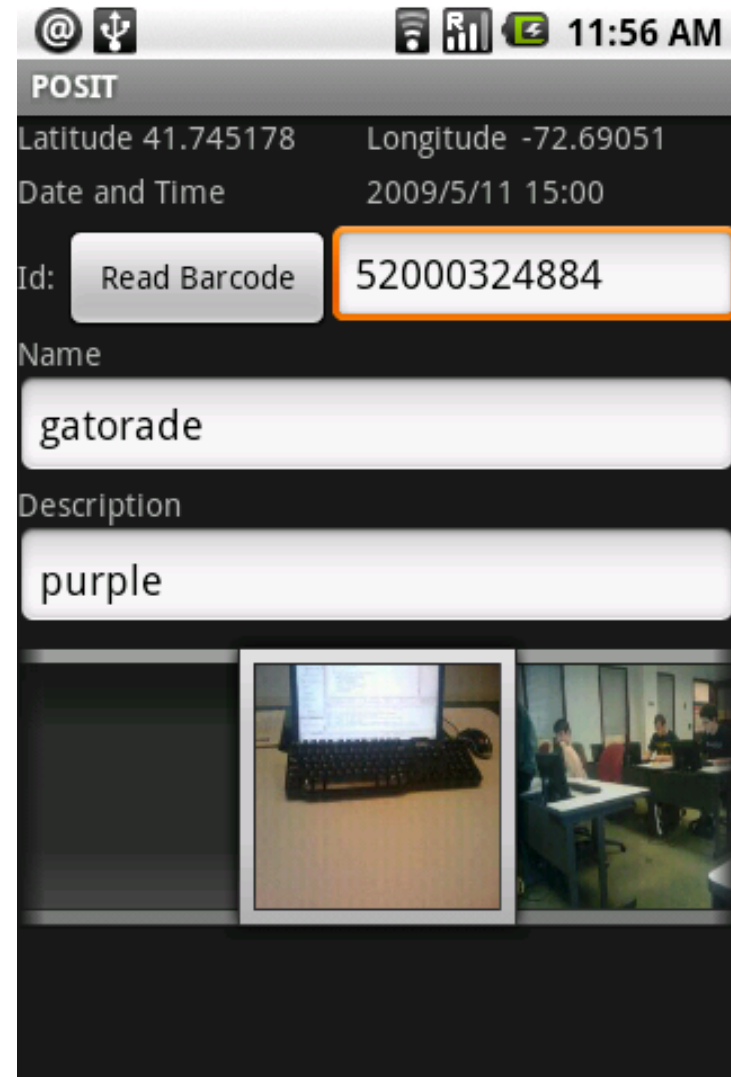
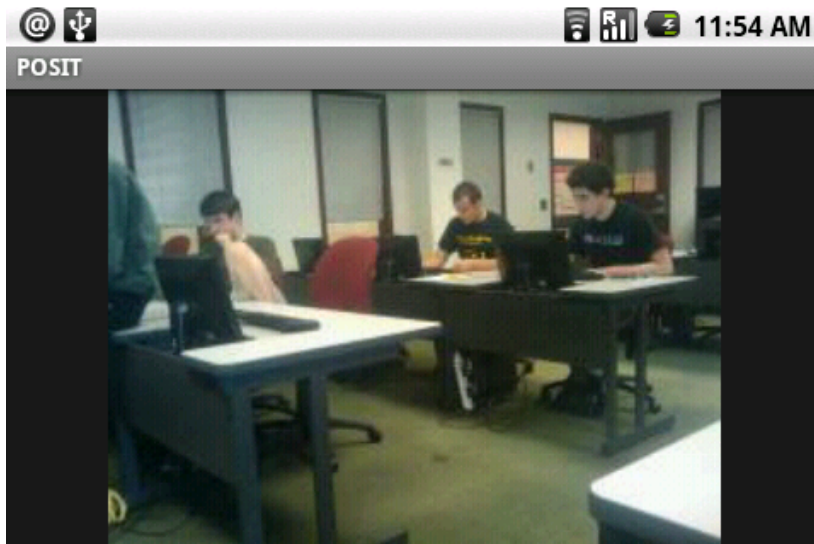
The Read Barcode button is currently disabled. Please download and install the Barcode Scanner application.

- Fixed barcode scanning functionality
- It's dependent on the installation of a third-party application, *Barcode Scanner*

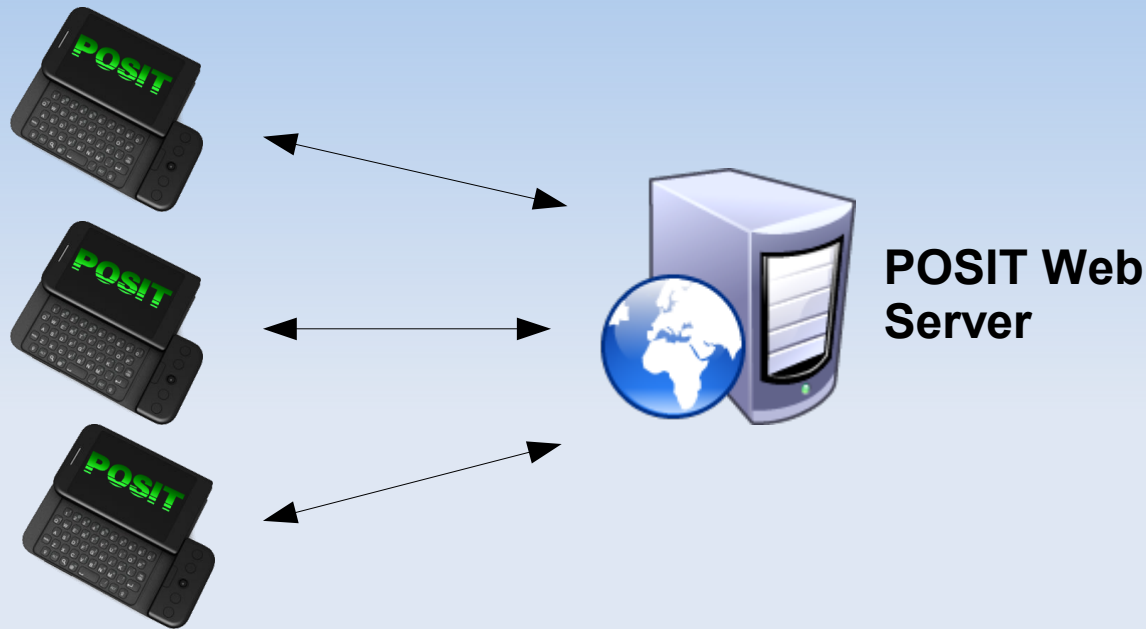


Find Photo Display

- Now when a photo is clicked from the Find view, a user does not access the full photo gallery
- Further enhancements will be made to allow on-the-fly scrolling through pictures of one find

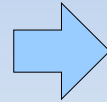


POSIT Server

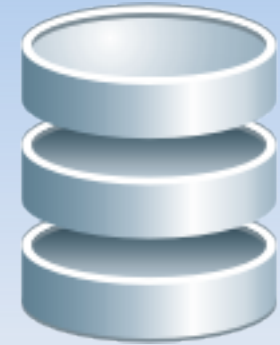
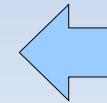
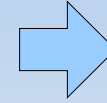


- Set up an instance: dev.posit.ossf.org
- Syncing doesn't work with new server yet

Android data storage



POSIT

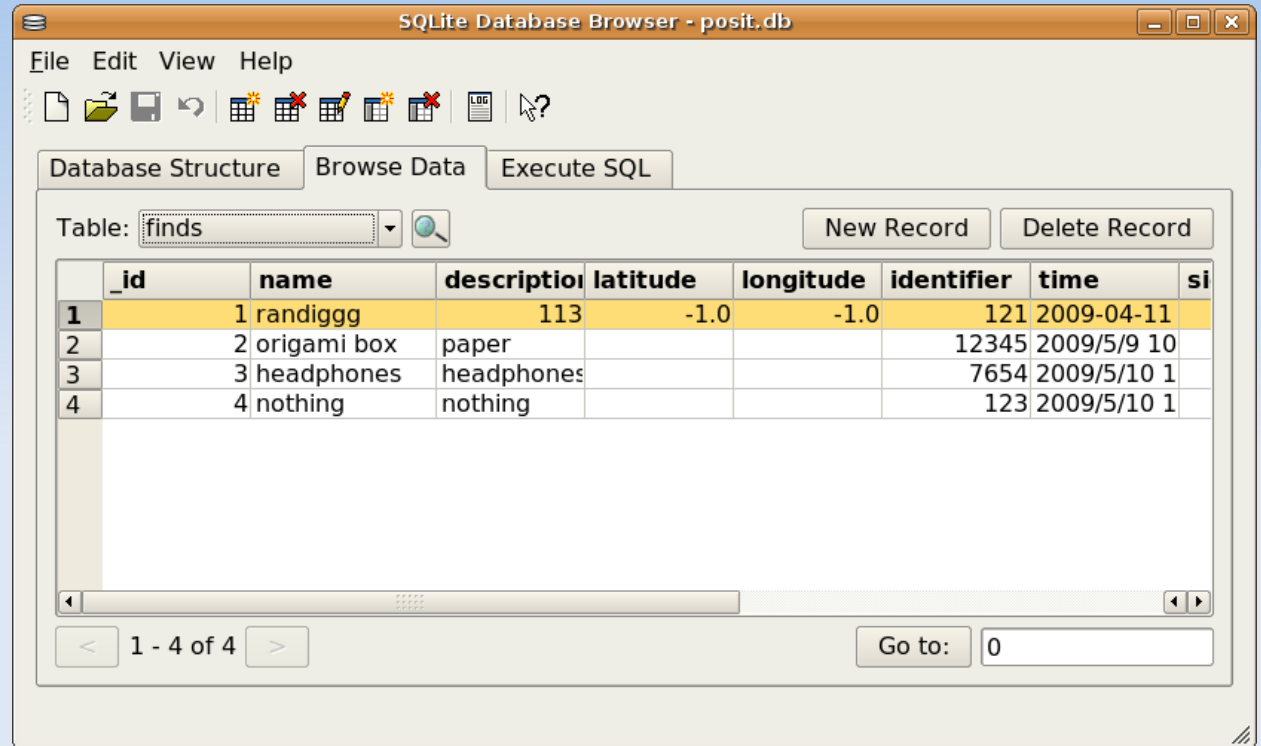


- No graphical browser
- Difficult to debug

posittool

```
$ posittool pulldb  
copying database from device...  
72 KB/s (6144 bytes in 0.082s)
```

```
$ posittool pushdb  
writing database to device...  
107 KB/s (6144 bytes in 0.055s)
```



- Command line tool
- Uses sqlitebrowser
- Create, edit, delete, change schema

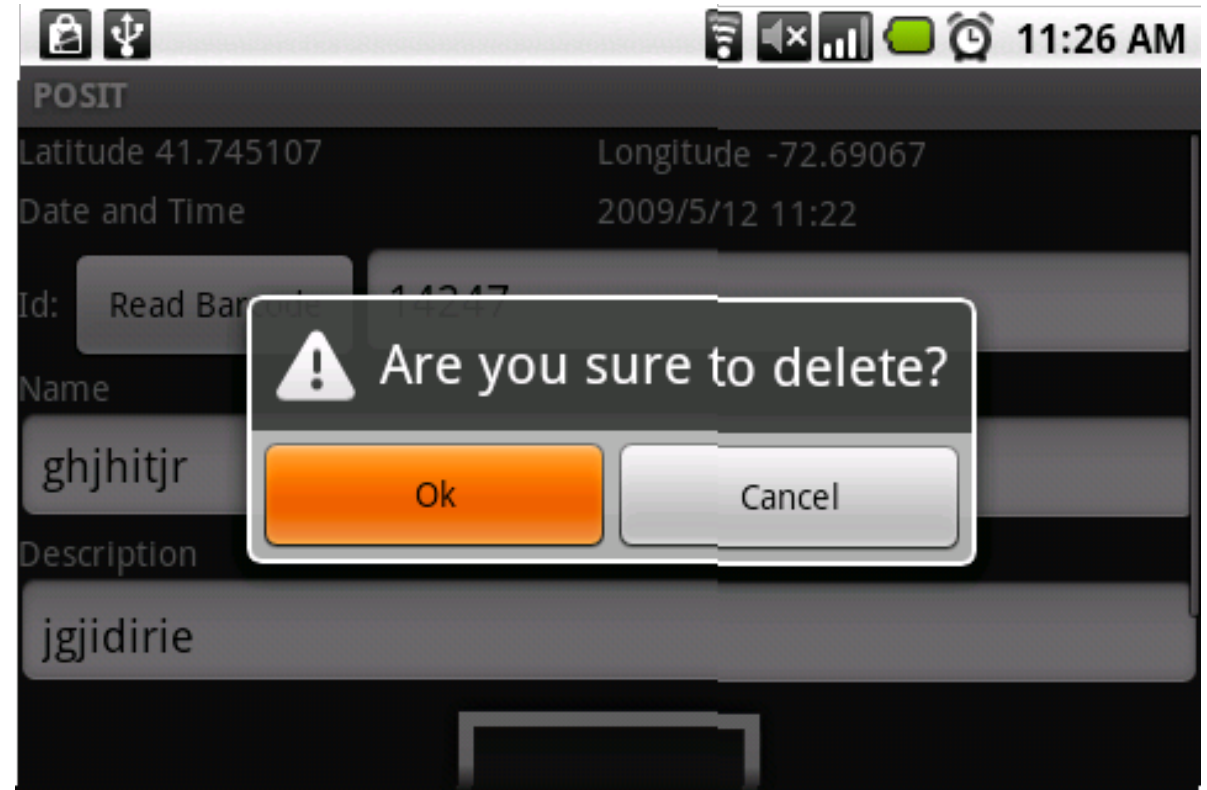
Some improvement

- Add an layout of the Instruction and “Copyright”
- Add an confirmation when you wanna delete



Confirmation Dialog

- Prevent the user from deleting the tags accidentally
- Make the user interface more well-rounded



Next Week



posit-android

An android based platform for disaster management

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Project Home

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Wiki

Issues

Source

Administer

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Search

Open issues



for

Search

[Advanced search](#) |

[Search tips](#)

Tip: Type ? for issue tracker keyboard shortcut help.

[hide](#)

Select: [All](#) [None](#)

Actions...

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List | [Grid](#)

	ID	Type	Status	Priority	Milestone	Owner	Summary + Labels	...
<input type="checkbox"/>	6	Defect	Accepted	Medium	---	ram8...@gmail.com	No confirm dialog when deleting a find	
<input type="checkbox"/>	9	Defect	Accepted	Critical	---	alcorn	' Displaying synced finds produces a crash	
<input type="checkbox"/>	15	Enhancement	Accepted	Low	---	qiansterxP	no documentation to tell user to change map key api	
<input type="checkbox"/>	18	Defect	Started	High	---	cgbobby	No double checking when saving the data to the database	
<input type="checkbox"/>	19	Enhancement	Started	Medium	---	cgbobby	Add 'About' menu and remove developer names from POSIT main view.	
<input type="checkbox"/>	20	Defect	Started	High	---	alcorn	' Posit web sever	
<input type="checkbox"/>	23	Defect	Accepted	Medium	---	cgbobby	No delete confirmation when single object be deleted	
<input type="checkbox"/>	24	Defect	Accepted	Medium	---	qiansterxP	Gallery must be changed to only show gallery for specfic find	
<input type="checkbox"/>	25	Defect	Accepted	Medium	---	qiansterxP	Finds with no pictures still show Gallery	
<input type="checkbox"/>	28	Enhancement	Accepted	Medium	---	hckyfi77	Add arrows or controls to change image viewing without going back to Find view	

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- More issues