CountThings from Photos

InterApp Communication

CountThings from Photos app is prepared to respond to action requests by specifying the appropriate url scheme. This document shows you how to create an x-callback-url scheme for a particular action, how to use it to start a callback in CountThings from Photos app and how to get the results back in your app.

Prerequisites

- iOS app that will call CountThings from Photos
- Install CountThings from Photos and login to an account with a valid subscription
- Install pod 'CallbackURLKit' (used in this document to handle url parsing)

General

The url can be configured in order to:

- Select first screen when CountThings from Photos app will open:
 - Take Picture screen
 - Prepare screen (works only if the URL of the image is not private)
 - Set Active Template screen
- Select settings:
 - Start count process automatically when opening CountThings from Photos (optional)
 - Send the Template ID if the current active template is not suitable for the current count process (optional)
- Select which result information will return to the caller app:
- JSON Data (object that contains information about results total number, coordinates, radius and text label)
- Results image (the caller app will receive the image in memory using the UIPasteboard.image property) after the <u>Save</u> button is pressed on <u>Review screen</u>.

Usage

Define the following enum structure to select the first when when CountThings from Photos app will open:

```
enum OpenFirstScreen: String {
    case takePicture, prepare, setActiveTemplate
}
```

Subclass the Client class from CallbackURLKit pod and call superclass init with "countthings" as urlScheme

```
class CountThings : Client {
    public init() {
        super.init(urlScheme: "countthings")
    }
}
```

Create a function with this signature:

Define the parameters structure:

```
var parameters = [String:String]()
if let url = imageUrl {
    parameters = ["imgUrl" : url.absoluteString]
}
parameters["templateId"] = "\(templateId)"
parameters["countAutomatically"] = countAutomatically.description
```

Call the CountThings from Photos app:

In order to retrieve the results from CountThings from Photos app a pooling timer must be implemented as following:

```
var timer:Timer?
static let notificationName =
Notification.Name("onPasteboardChanged")
var lastChangeCount: Int = UIPasteboard.general.changeCount
```

```
public init() {
    super.init(urlScheme: "countthings")
    self.timer = Timer.scheduledTimer(withTimeInterval: 0.05,
repeats: true) { (t) in
            if self.lastChangeCount !=
UIPasteboard.general.changeCount {
                 self.lastChangeCount =
UIPasteboard.general.changeCount
                 NotificationCenter.default.post(name:
CountThings.notificationName, object: UIPasteboard.general)
 }
The results are pasted in general UIPasteboard and the results are available when the
caller app didBecome active again. The results can be accessed as following:
@objc func clipboardChanged(_ notification: Notification){
        let pasteboardJson: String? = UIPasteboard.general.string
        let pasteboardImage: UIImage? = UIPasteboard.general.image
        if let theString = pasteboardJson {
            // Json returned as string
```

Questions or suggestions should be reported at support@countthings.com

// Results image returned as UIImage

if let theImage = pasteboardImage {

}

}