Creating a Reminder App using Local Notifications

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Overview

- Objectives
- API
- Creating the App
Objectives

• Learn the API for local notifications

• See how to create a simple app in XCode 4

• Get some general knowledge on ObjectiveC, Cocoa Touch and Core Data
The Aim:

Notify the user that an app has some information for them while the app is not in the foreground.
API

• UILocalNotification
• UIApplication
• UIApplicationDelegate
UILocalNotification

- fireDate
- applicationIconBadgeNumber
- alertBody
- alertAction
- soundName
- userInfo ...
UIKit Application

- scheduleLocalNotification:
- presentLocalNotificationNow:
- cancelLocalNotification:
- cancelAllLocalNotifications
- scheduledLocalNotifications
- applicationIconBadgeNumber
UIApplicationDelegate

- application:didFinishLaunchingWithOptions:
  (UIApplicationLaunchOptionsLocalNotificationKey)

- application:didReceiveLocalNotification:
  (applicationState)
Creating the App

- Create a new project
- Add an edit view controller
- Use local notifications
- Modify notifications
- Badge the app icon
Create a new project

• New project
• Navigation controller
• Table view controller
• Core Data
Edit View Controller
Edit View Controller

- The Delegate pattern
- Accessors
- The UI
  - Navigation items
  - Table view cells
  - Input views
Use local notifications

- Local notification manager class
- Receiving local notifications
- Creating and scheduling a local notification
- Canceling a local notification
Modify notifications

• Modifying a scheduled local notification does not work

• Canceling and rescheduling a local notification
Badge the app icon

- Setting a local notification’s applicationIconBadgeNumber is not enough
- The app has to manage this field for all scheduled notifications
Badge the app icon

Extend the local notification manager class

- Schedule local notification
- Cancel local notification
- Modify local notifications
- Post a NSNotification
Badge the app icon

• Update the model & UI for “due” reminders
• Dispatch notifications from app delegate
• Adapt application icon badge number
  • When receiving / scheduling / canceling a local notification
  • When viewing / deleting a “due” reminder
Q & A

More questions:
http://imesart.com/contact.php
Thank you for your attention