

Creating a Reminder App using Local Notifications

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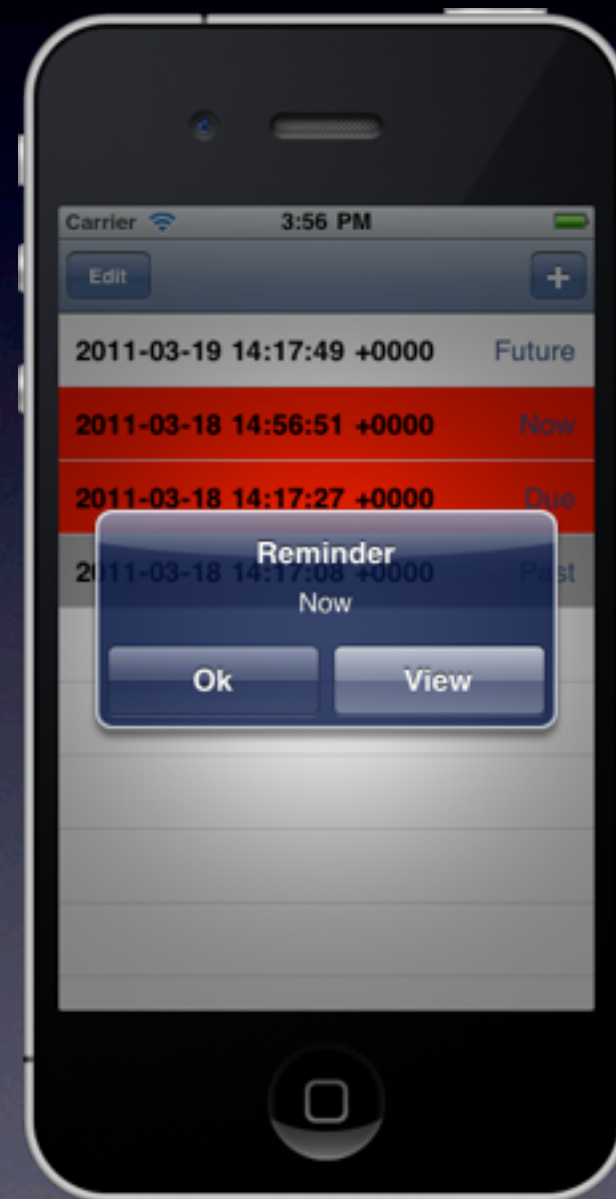
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Overview

- 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



API

The Aim:

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

API

- UIApplicationNotification
- UIApplication
- UIApplicationDelegate

UILocalNotification



- `fireDate`
- `applicationIconBadgeNumber`
- `alertBody`
- `alertAction`
- `soundName`
- `userInfo ...`

UIApplication

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

UIApplicationDelegate

- `application:didFinishLaunchingWithOptions:`
(`UIApplicationLaunchOptionsLocalNotificationKey`)
- `application:didReceiveLocalNotification:`
(`applicationState`)

Creating the App

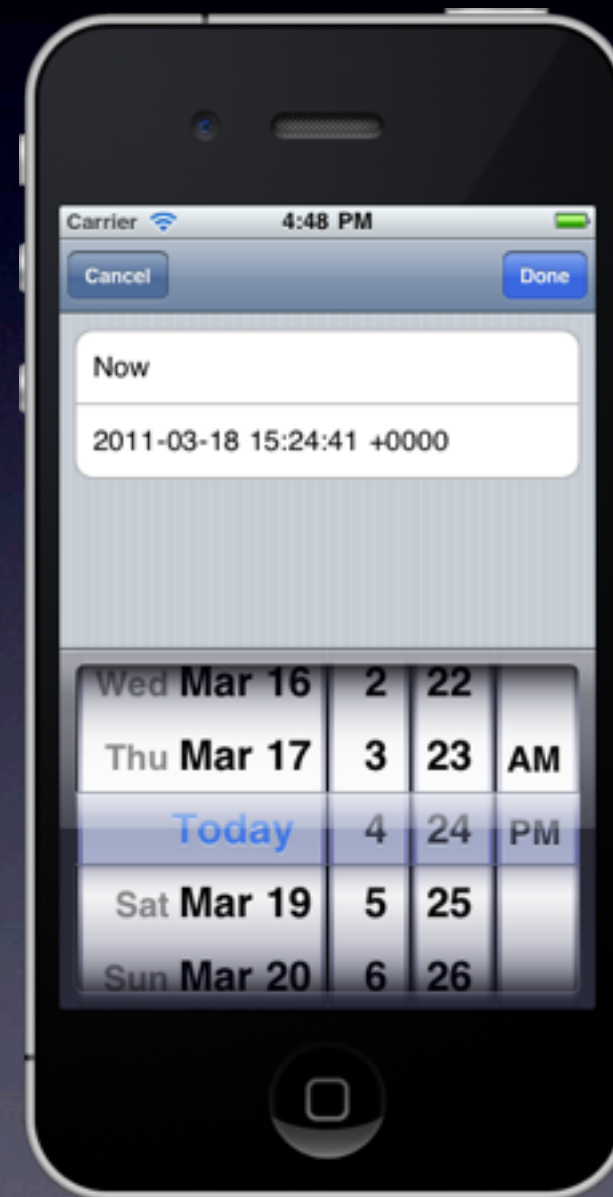
- Create a new project
- Add an edit view controller
- Use local notifications
- Modify notifications
- Badge the app icon

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