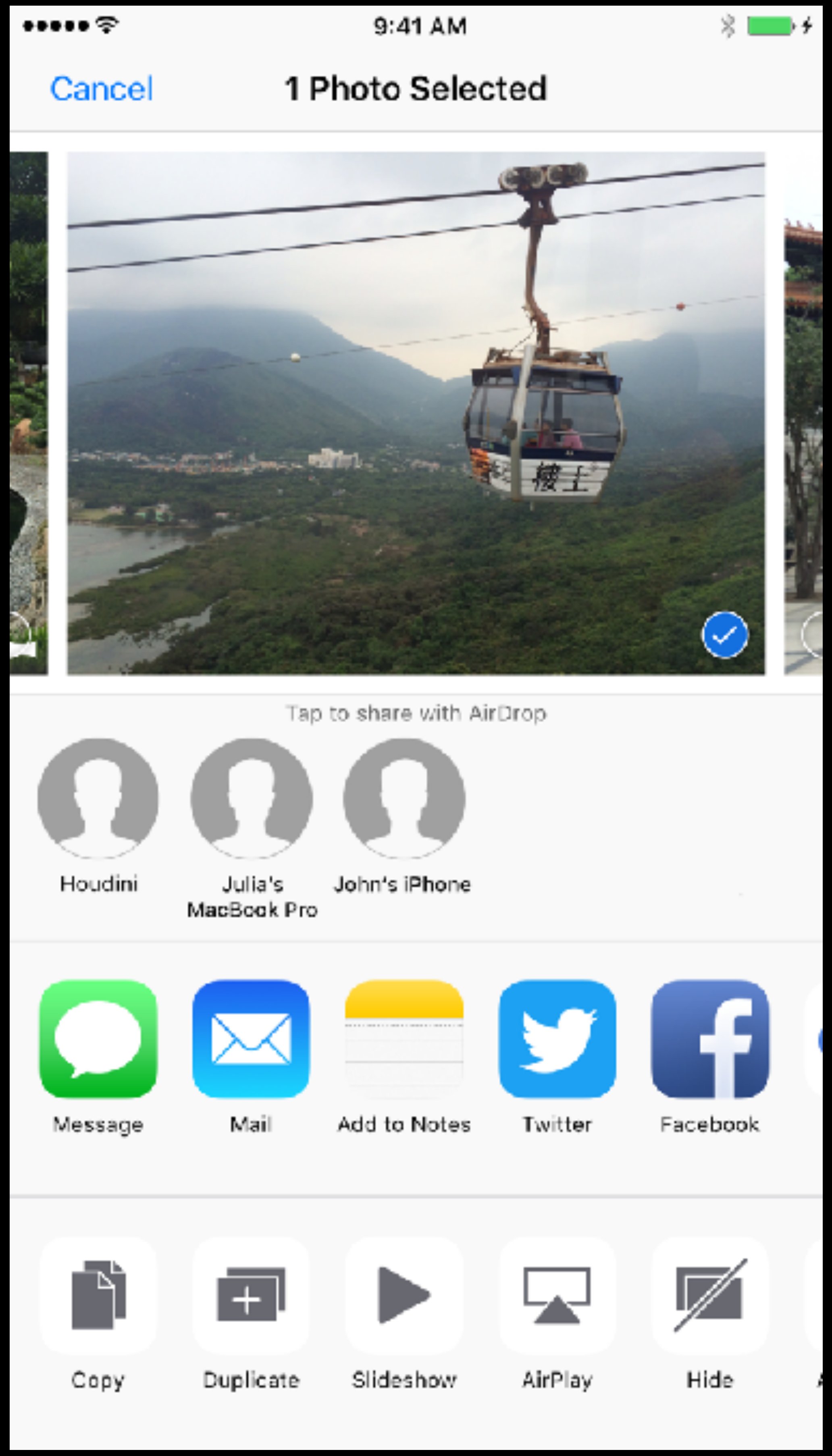
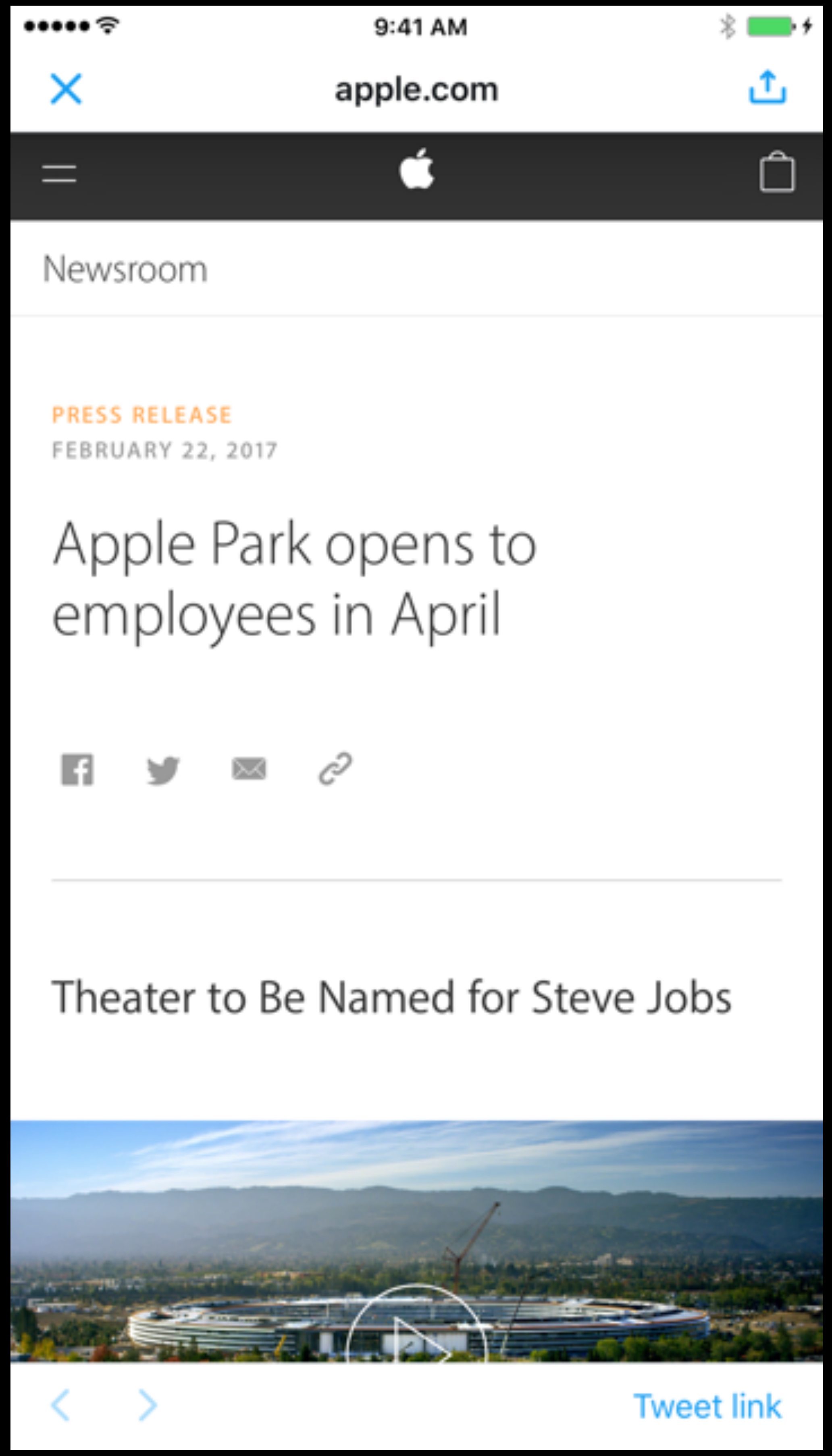
Unit 4—Lesson 8: System View Controllers

Apple system view controllers

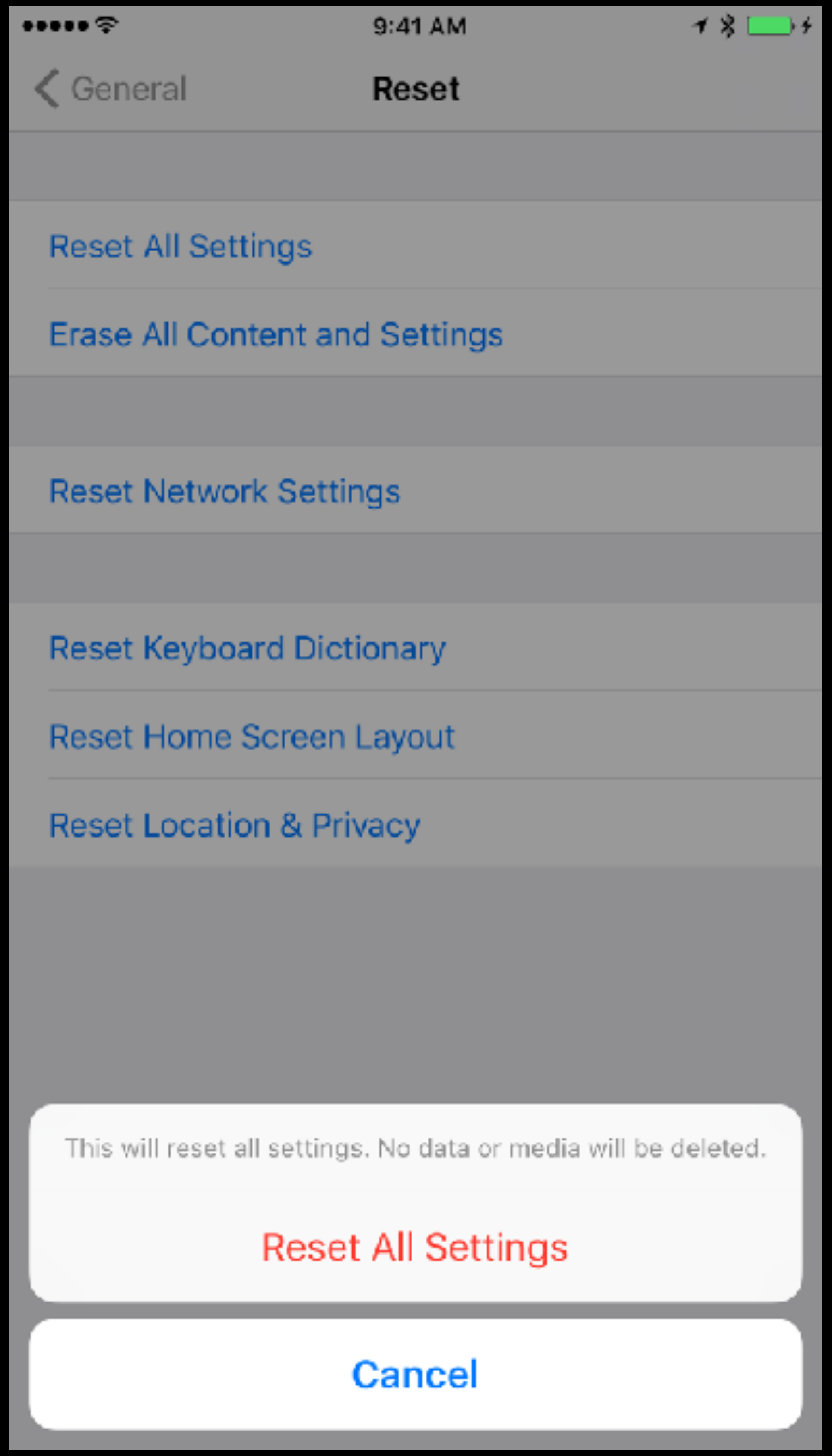




PRESS RELEASE
FEBRUARY 22, 2017

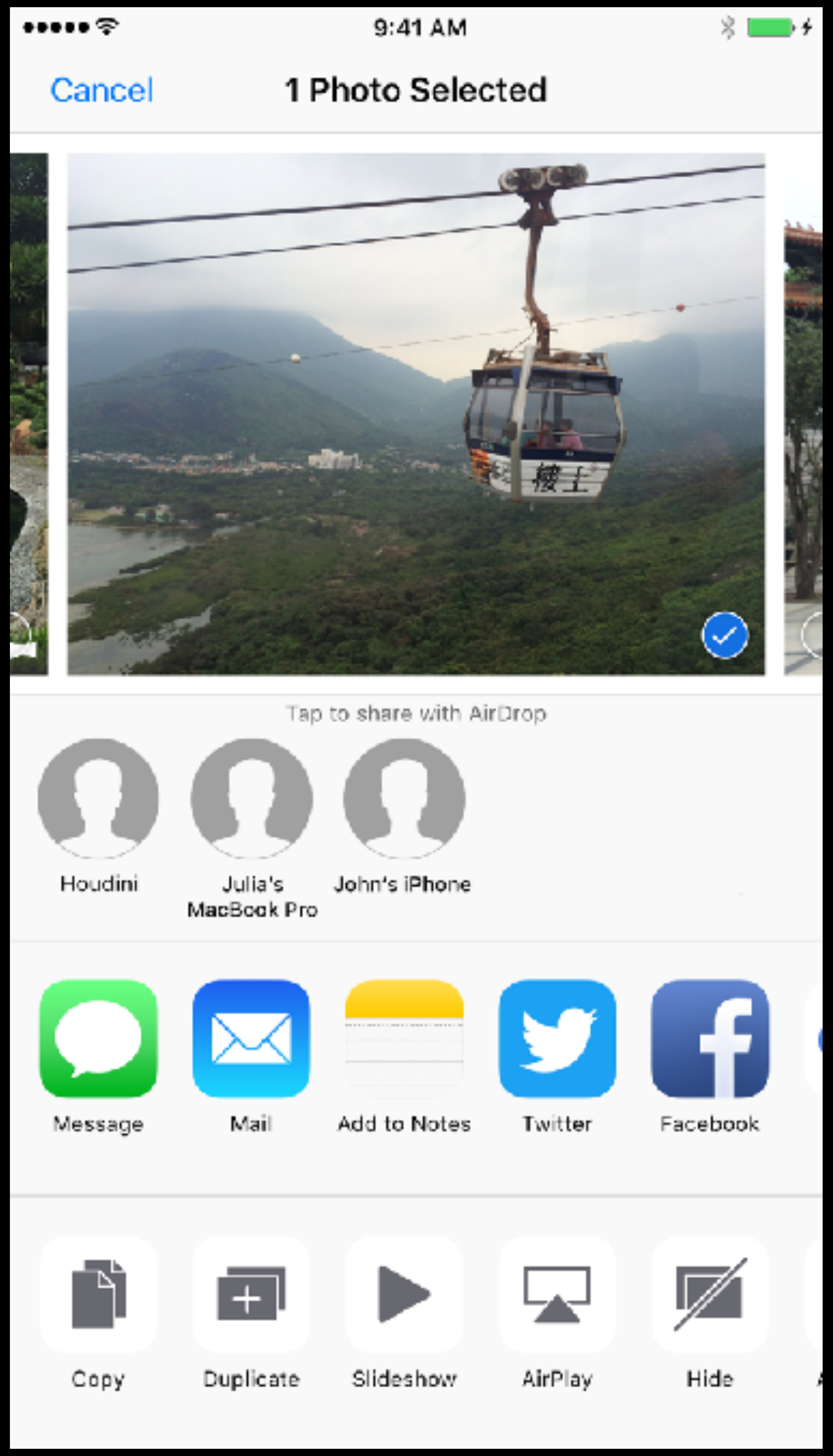
Apple Park opens to employees in April

Theater to Be Named for Steve Jobs



This will reset all settings. No data or media will be deleted.

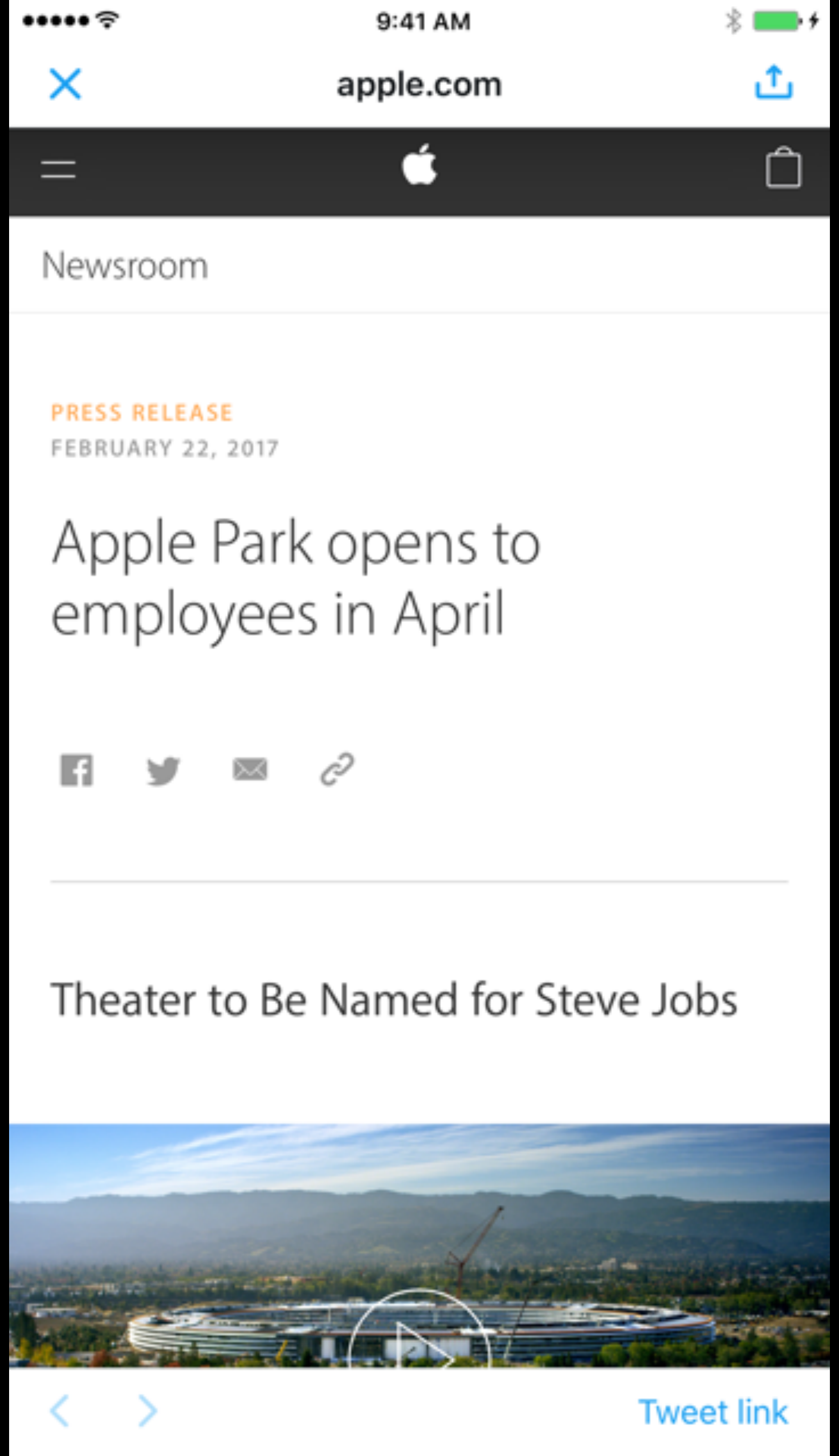
Activity view controller



Activity view controller

```
guard let image = imageView.image else { return }
let activityController = UIActivityViewController(activityItems: [image],
    applicationActivities: nil)
present(activityController, animated: true, completion: nil)
```

SFSafariViewController



Newsroom

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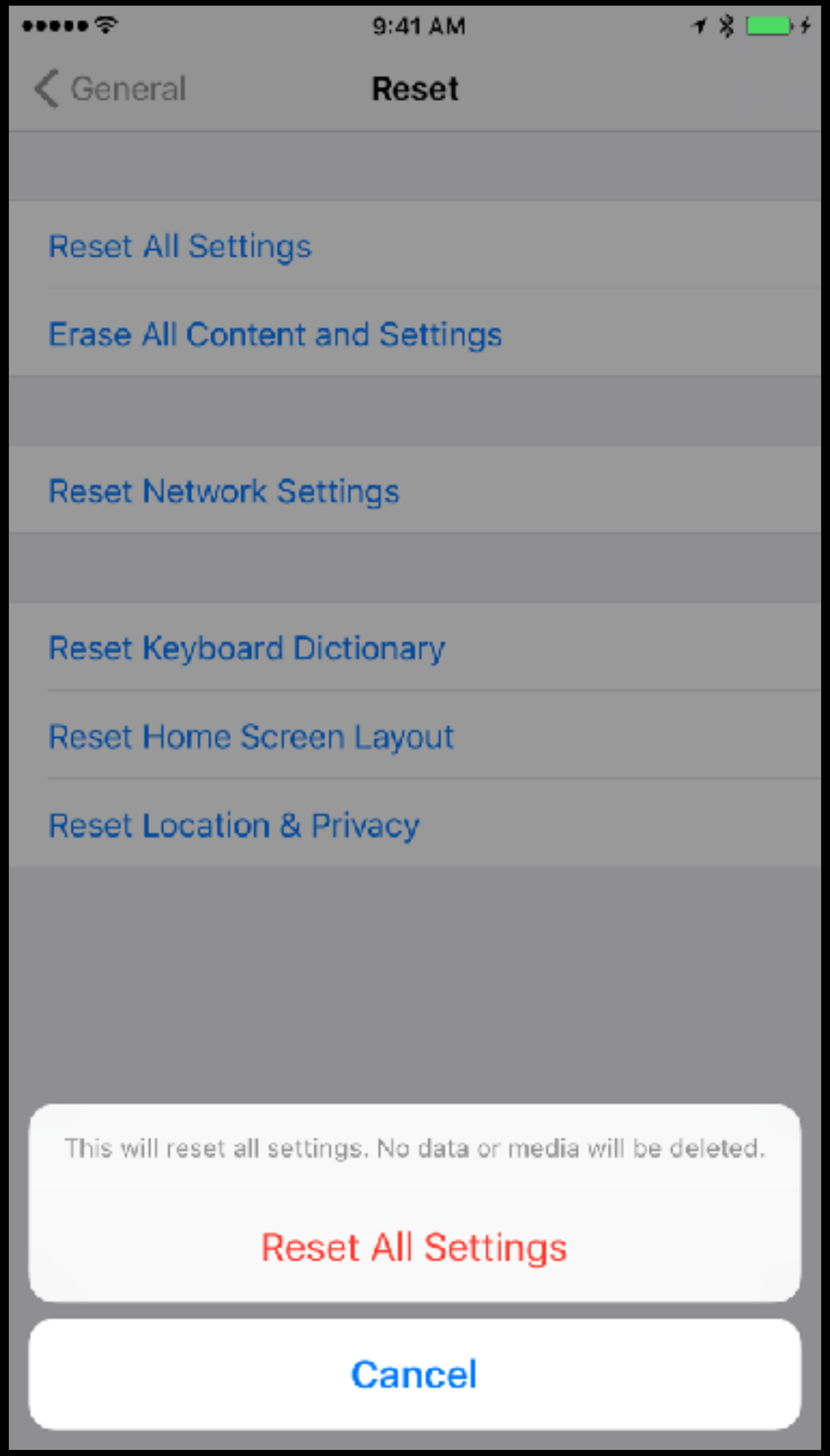
SFSafariViewController

```
import SafariServices
```

```
guard let url = URL(string: "http://www.apple.com") else { return }
let safariViewController = SFSafariViewController(url: url)
present(safariViewController, animated: true, completion: nil)
```

Alert controllers



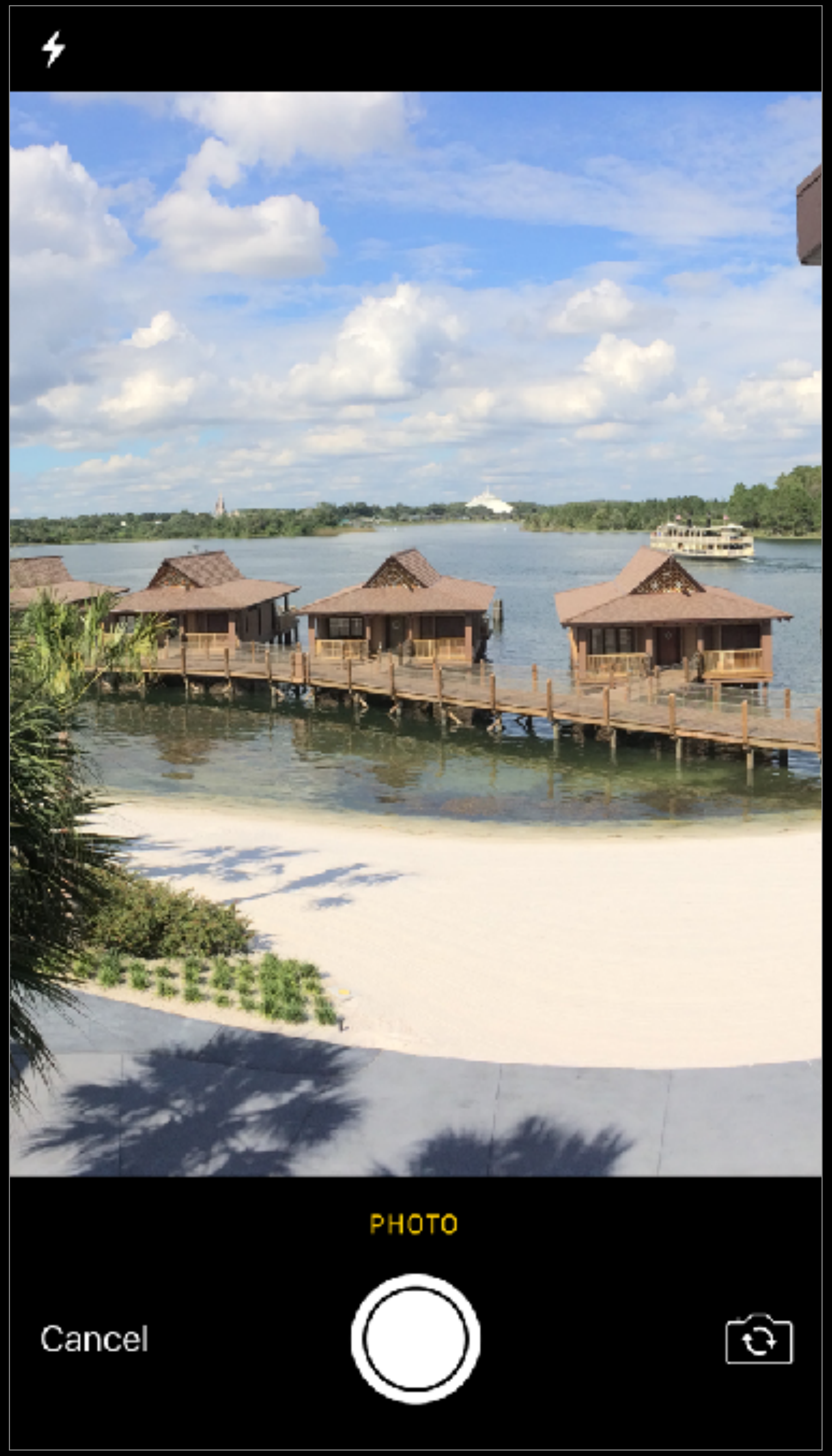
This will reset all settings. No data or media will be deleted.

Alert controllers

```
let alertController = UIAlertController(title: "Alert Title",
                                                message: "Alert Message",
                                                preferredStyle: .actionSheet)


let cancelAction = UIAlertAction(title: "Cancel", style: .cancel) { (alertAction) in

}

alertController.addAction(cancelAction)

present(alertController, animated: true, completion: nil)
```

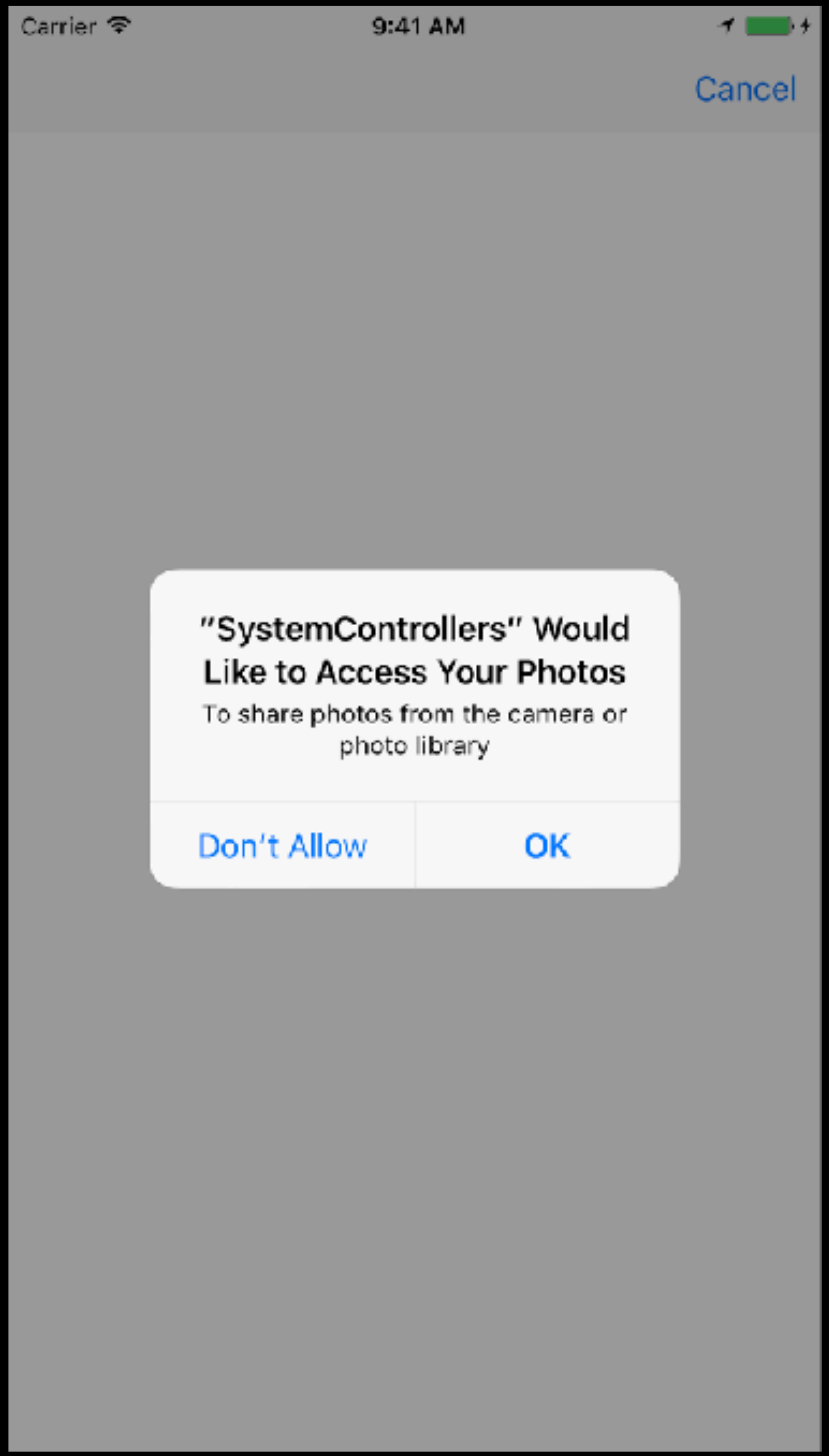
Access the camera

UIImagePickerController



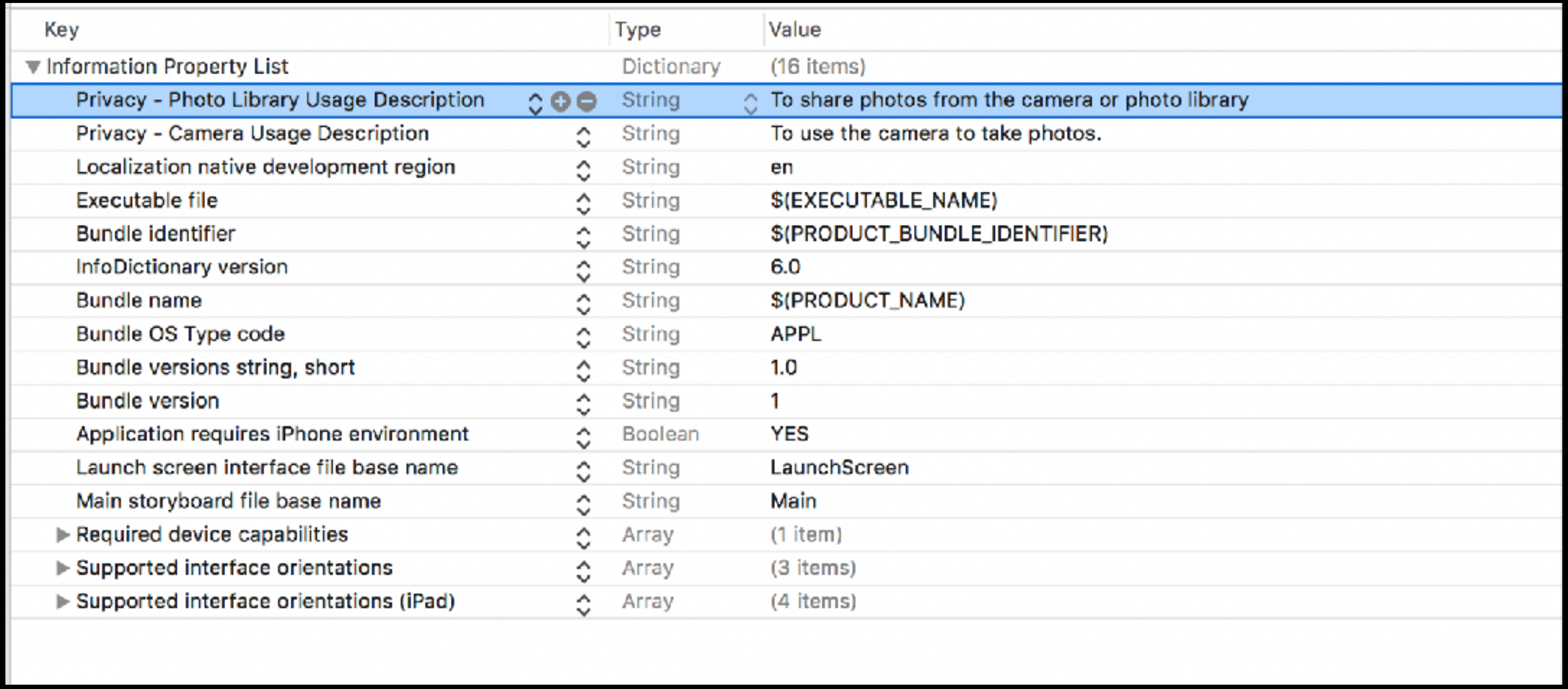
Access the camera

Permission



"SystemControllers" Would Like to Access Your Photos

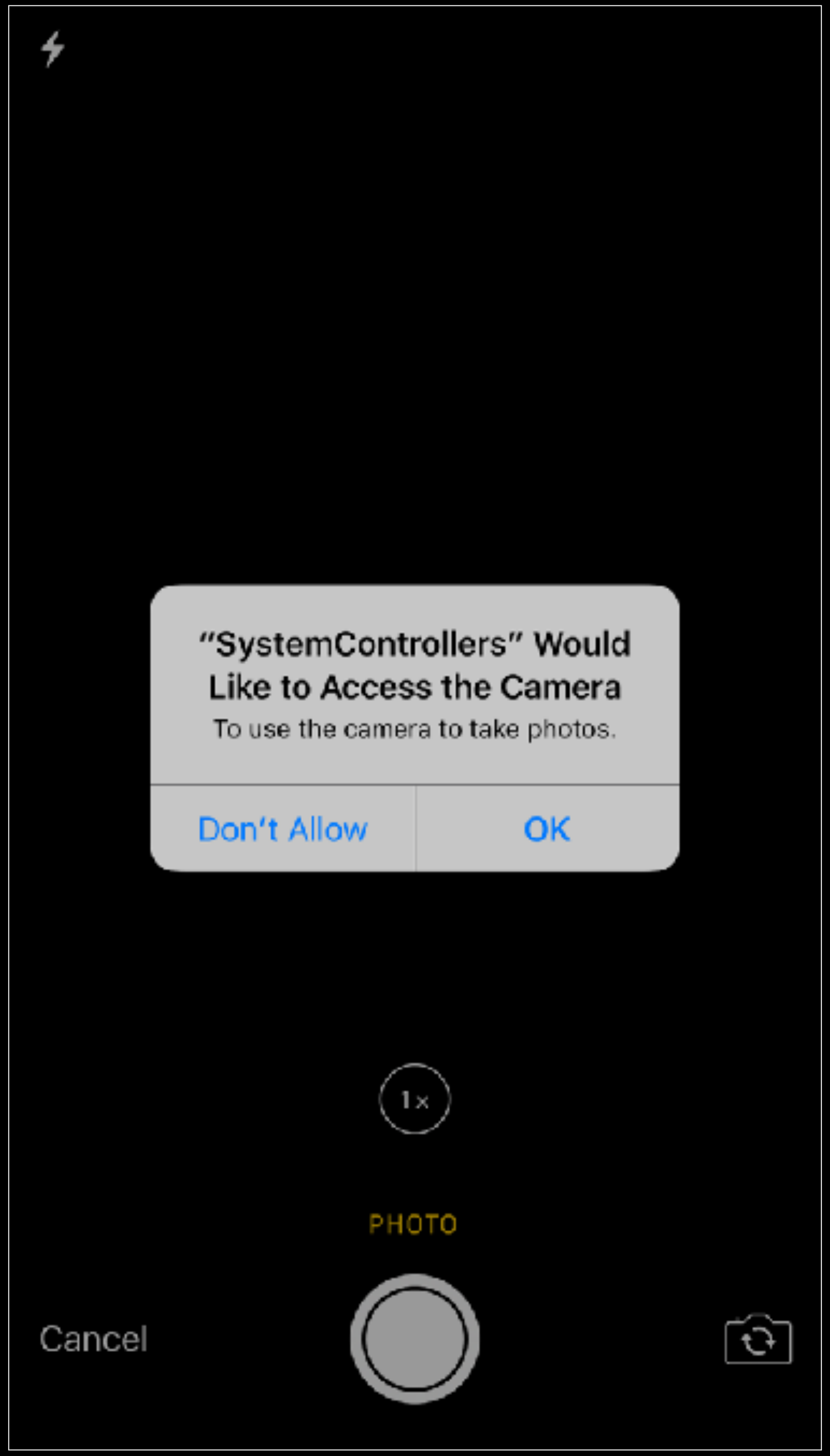
To share photos from the camera or photo library



Key	Type	Value
▼ Information Property List	Dictionary	(16 items)
Privacy - Photo Library Usage Description	String	To share photos from the camera or photo library
Privacy - Camera Usage Description	String	To use the camera to take photos.
Localization native development region	String	en
Executable file	String	$(EXECUTABLE_NAME)
Bundle identifier	String	$(PRODUCT_BUNDLE_IDENTIFIER)
InfoDictionary version	String	6.0
Bundle name	String	$(PRODUCT_NAME)
Bundle OS Type code	String	APPL
Bundle versions string, short	String	1.0
Bundle version	String	1
Application requires iPhone environment	Boolean	YES
Launch screen interface file base name	String	LaunchScreen
Main storyboard file base name	String	Main
▶ Required device capabilities	Array	(1 item)
▶ Supported interface orientations	Array	(3 items)
▶ Supported interface orientations (iPad)	Array	(4 items)

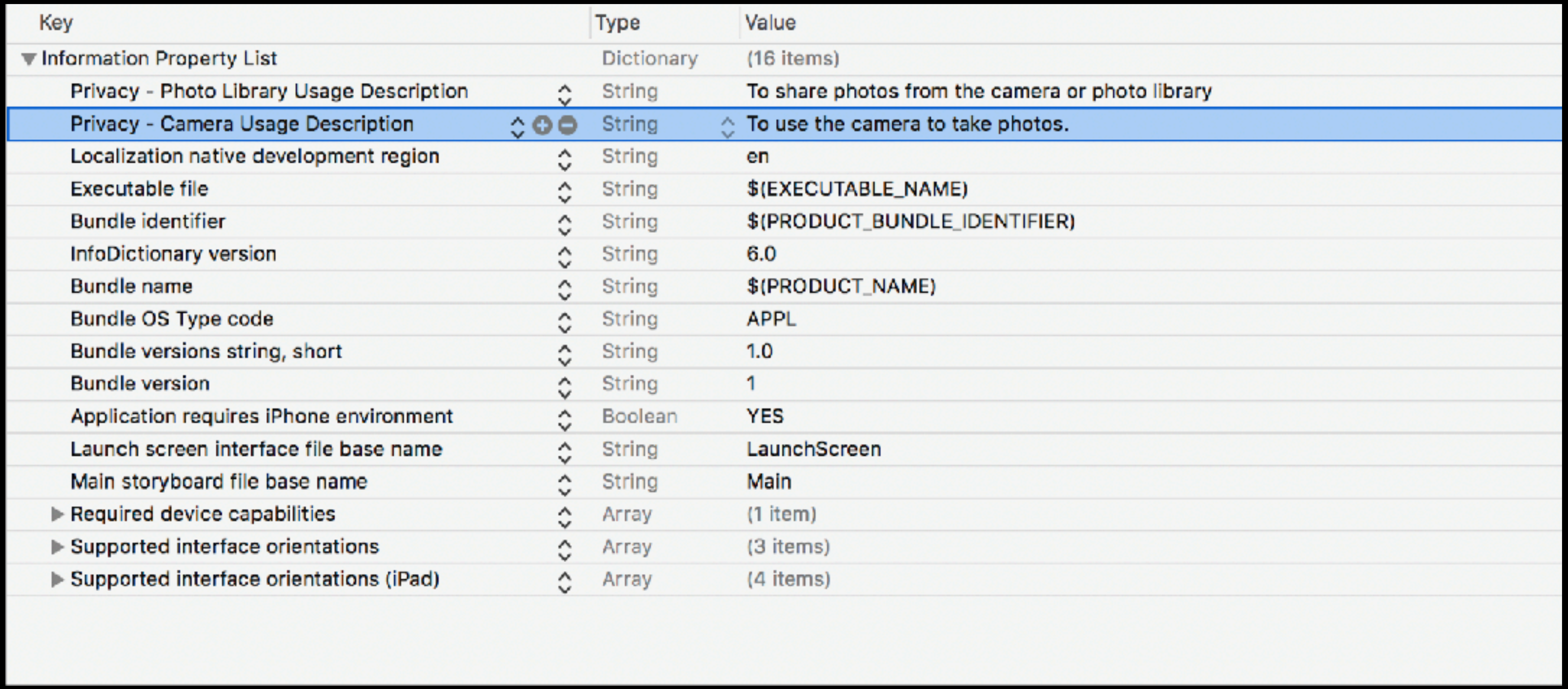
Access the camera

Permission



“SystemControllers” Would Like to Access the Camera

To use the camera to take photos.



Key	Type	Value
▼ Information Property List	Dictionary	(16 items)
Privacy - Photo Library Usage Description	String	To share photos from the camera or photo library
Privacy - Camera Usage Description	String	To use the camera to take photos.
Localization native development region	String	en
Executable file	String	$(EXECUTABLE_NAME)
Bundle identifier	String	$(PRODUCT_BUNDLE_IDENTIFIER)
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▶ Required device capabilities	Array	(1 item)
▶ Supported interface orientations	Array	(3 items)
▶ Supported interface orientations (iPad)	Array	(4 items)

Access the camera

Adopt the `UIImagePickerControllerDelegate` protocol

```
class ViewController: UIViewController, UIImagePickerControllerDelegate {...}
```

Access the camera

Create a UIImagePickerController

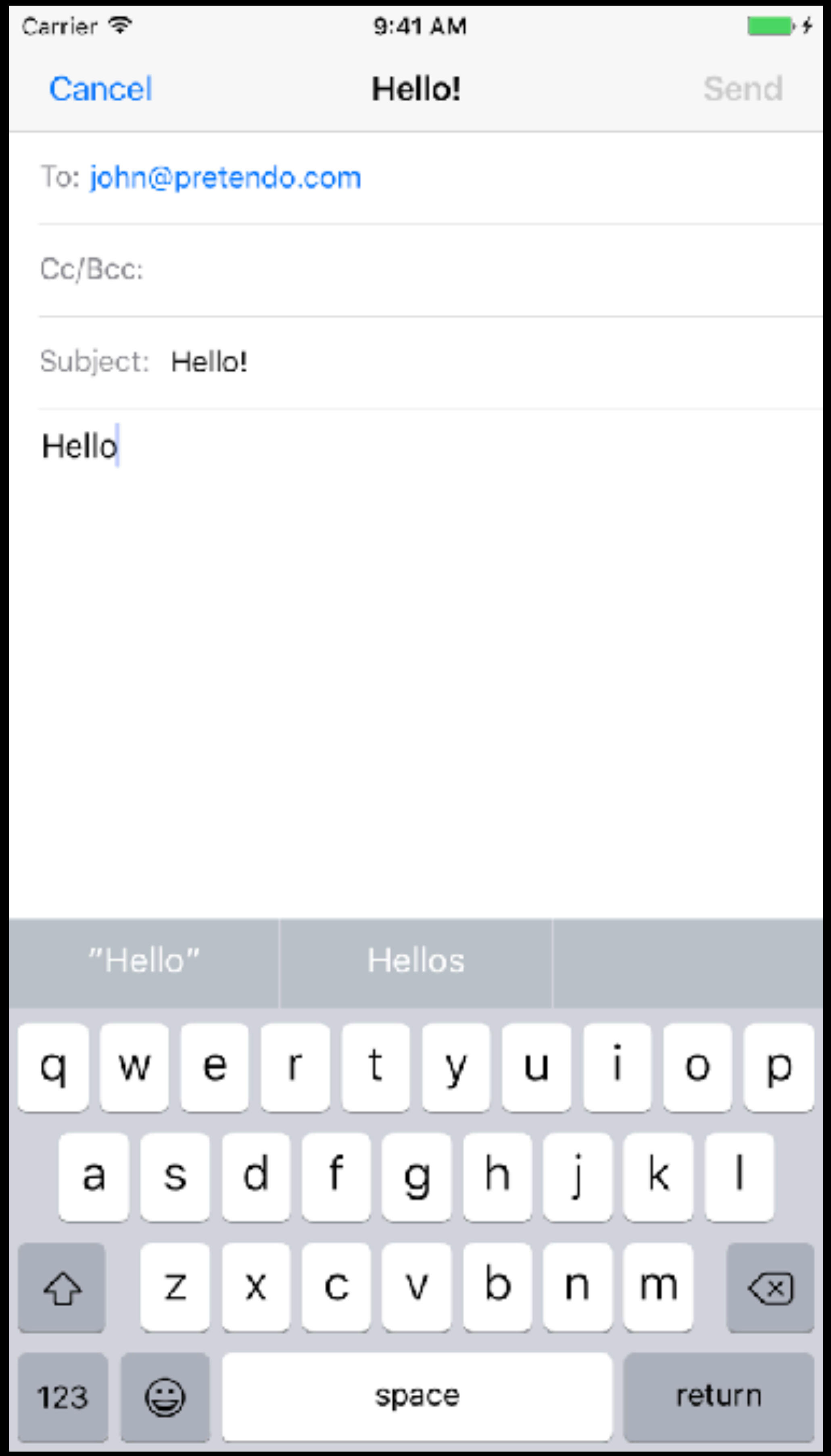
```swift
let imagePicker = UIImagePickerController()
imagePicker.delegate = self
imagePicker.sourceType = .camera //Or other sources
present(imagePicker, animated: true, completion: nil)
```

Access the camera

imagePickerController(_:didFinishPickingMediaWithInfo:).

```
func imagePickerController(_ picker: UIImagePickerController,
        didFinishPickingMediaWithInfo info: [String : Any]) {
    guard let selectedImage = info[UIImagePickerControllerOriginalImage] as? UIImage
        else { return }
    imageView.image = selectedImage
```

Send email



To: john@pretendo.com

Cc/Bcc:

Subject: Hello!

Hello

Send email

Verify if mail can be sent

```
import MessageUI
```

```
guard MFMailComposeViewController.canSendMail() else {
  print("Can not send mail")
}
```

Send email

MFMailComposeViewController

```
class ViewController: UIViewController, UIImagePickerControllerDelegate,
UINavigationControllerDelegate, MFMailComposeViewControllerDelegate {...}
```

```
let mailComposer = MFMailComposeViewController()
mailComposer.mailComposeDelegate = self
mailComposer.setToRecipients(["example@example.com"])
mailComposer.setSubject("Important topic to discuss")
mailComposer.setMessageBody("Hello there!", isHTML: false)

present(mailComposer, animated: true, completion: nil)
```

Send email

mailComposeController(didFinishWith:)

```
func mailComposeController(_ controller: MFMailComposeViewController,
    didFinishWith result: MFMailComposeResult, error: Error?) {

        dismiss(animated: true, completion: nil)
    }
```

Unit 4—Lesson 8

System View Controllers

Learn how to incorporate these system view controllers for displaying alerts, sharing content, sending messages, and accessing the camera and photo library on an iOS device.

Unit 4—Lesson 8

Lab: Home Furniture Sharing

1. Add a `UIAlertController`
2. Add an image picker
3. Share furniture with the `UIActivityViewController`