

Storyboards, XIB

Конструювання інтерфейсу

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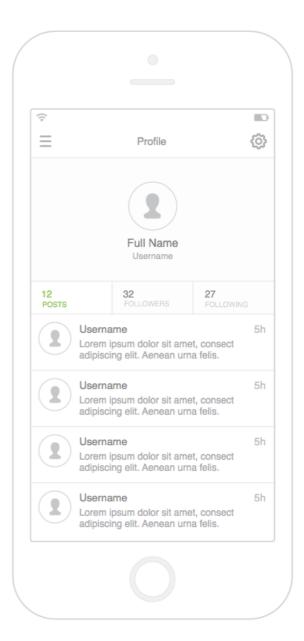
Інтерфейс

- Чому це важливо
- Human Interface Guidelines
- Інтерфейс має бути такий, ніби ваш продукт зробила Apple
 - На Apple в першу чергу і треба дивитися
- Інтерфейс != візуальний дизайн
 - Присутність дизайнера на проекті не знімає відповідальності з програміста

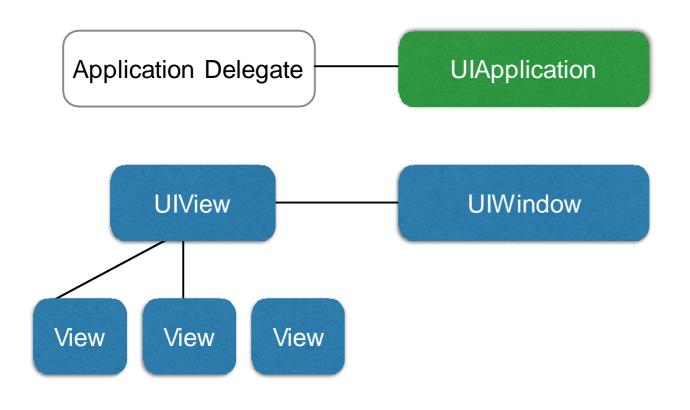


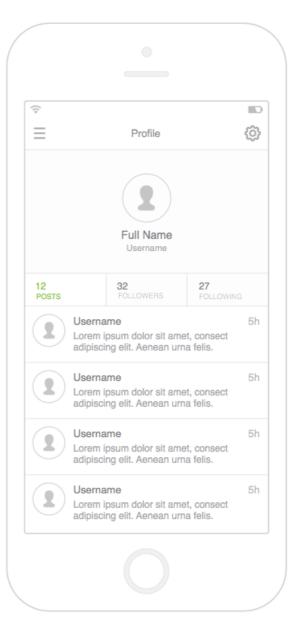
Application Delegate

UIApplication

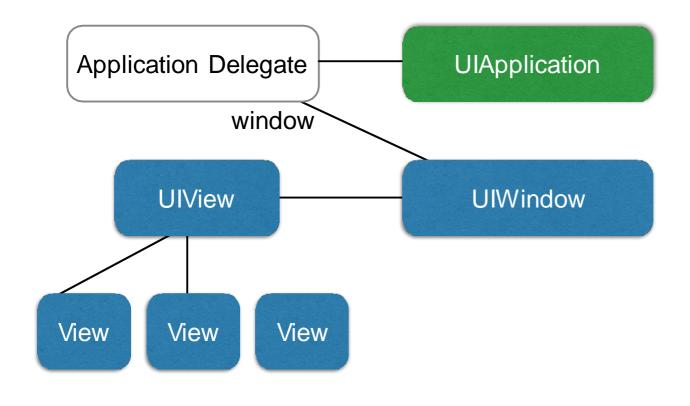


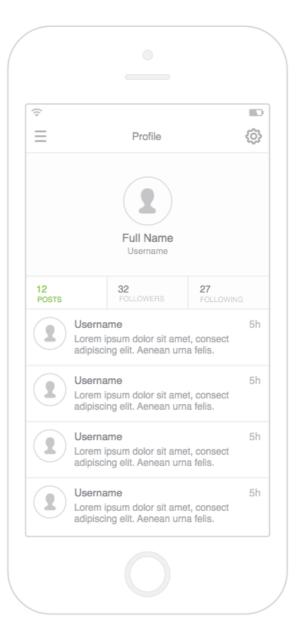




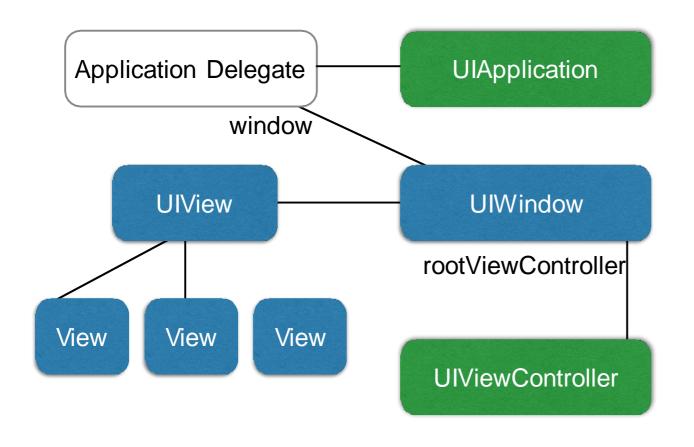


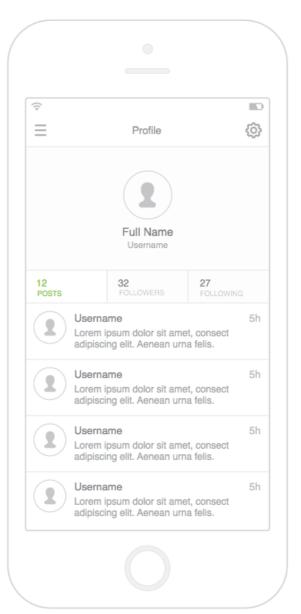




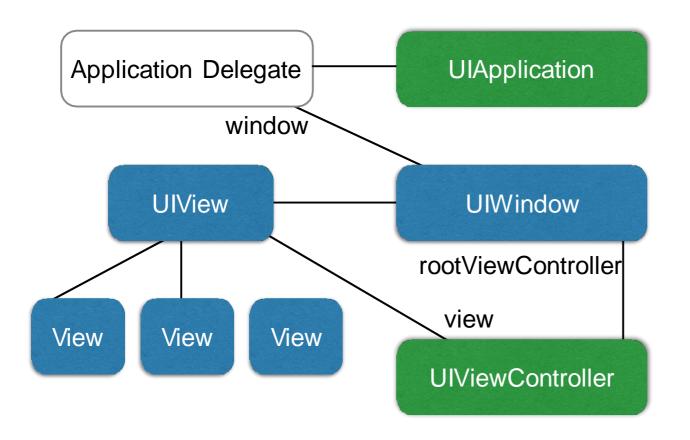


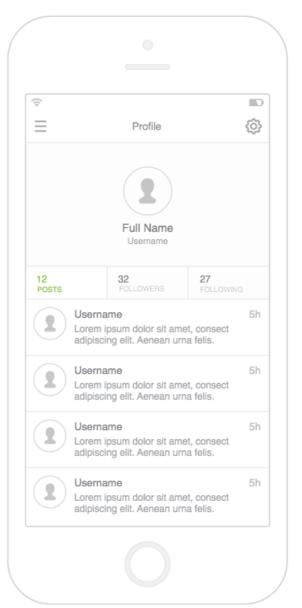














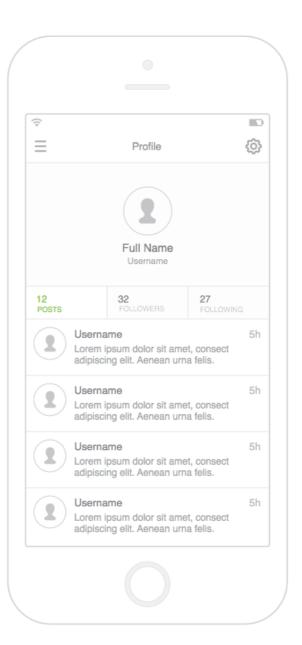
Xcode Project Structure

Demo



UlNavigationController

View Controller

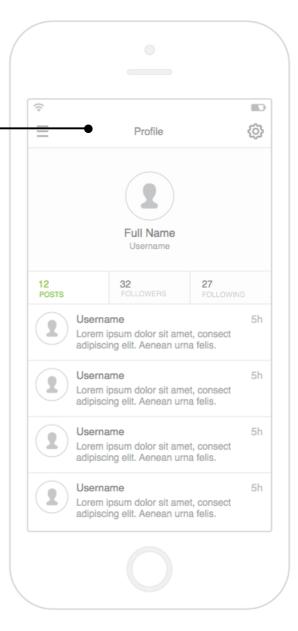




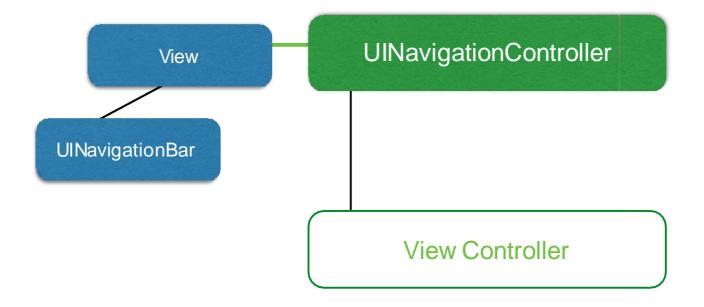
UINavigationBar

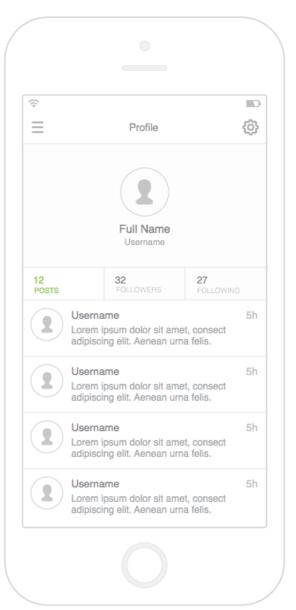
UINavigationController

View Controller

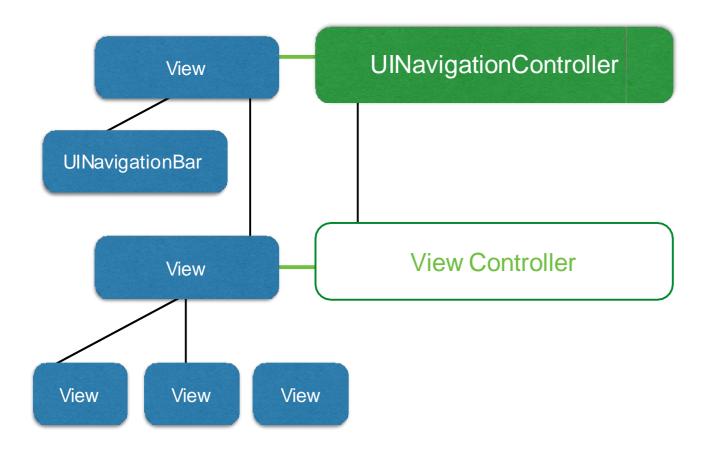


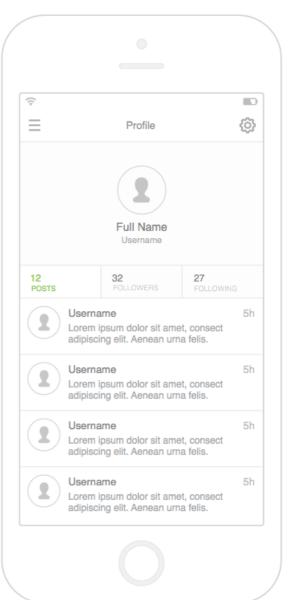








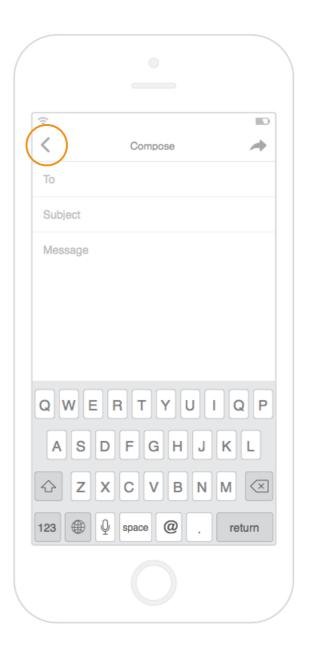




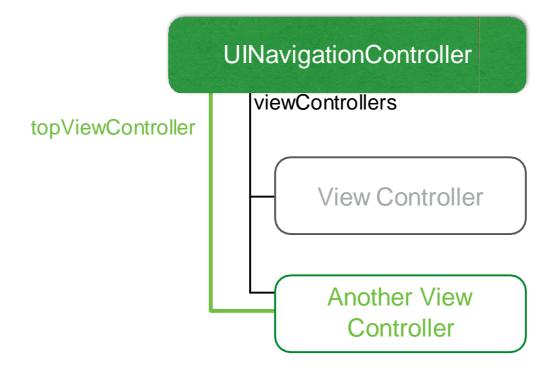


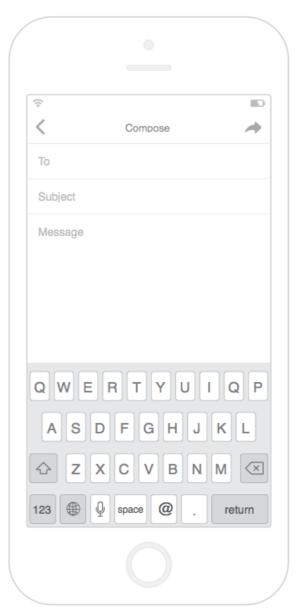
UlNavigationController

Another View
Controller

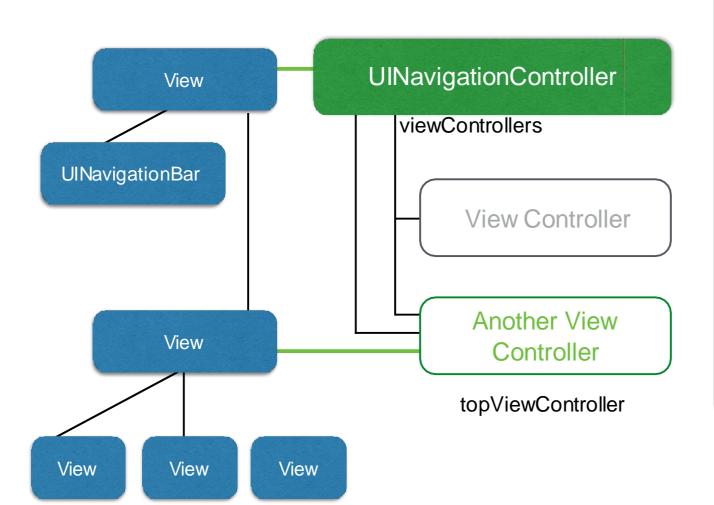


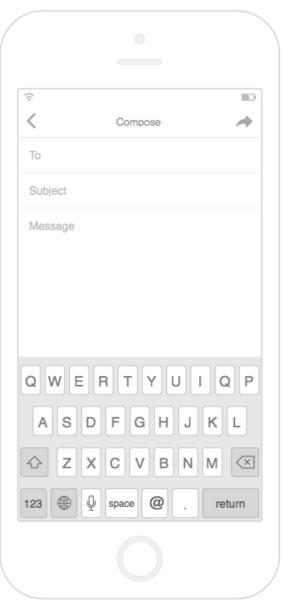










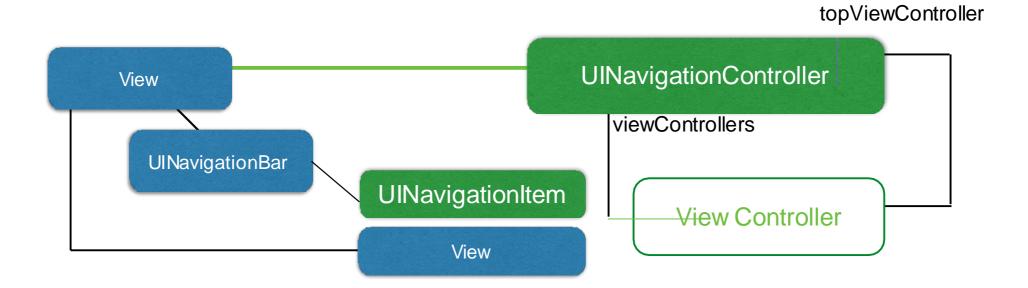




Контейнери-контроллери

- UINavigationController
- UlTabBarController
- UISplitViewController
- UIPageViewController
- •
- custom

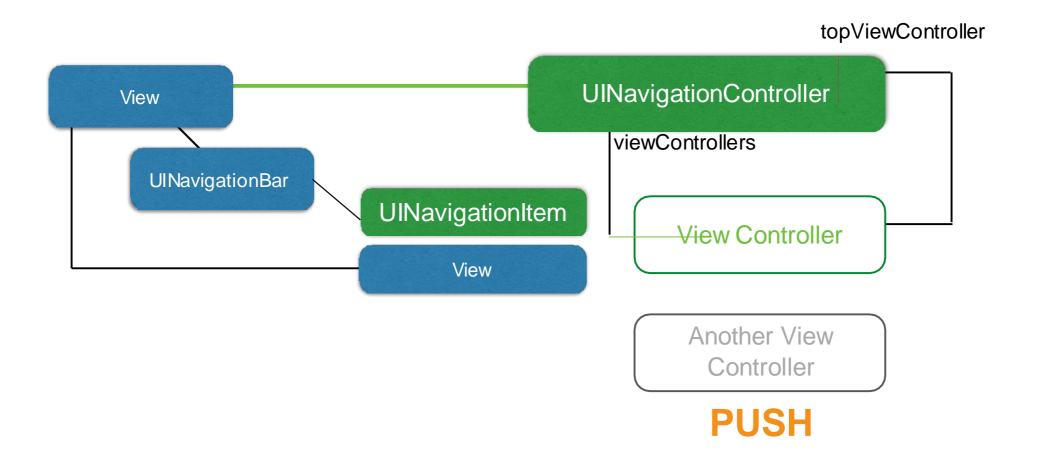






Push





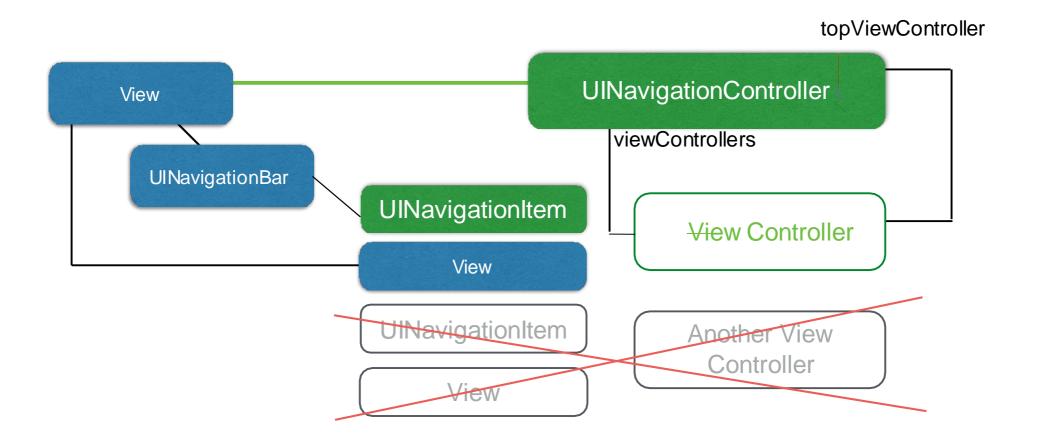


topViewController UINavigationController View viewControllers UINavigationBar UINavigationItem View Controller View UlNavigationItem **Another View** Controller View

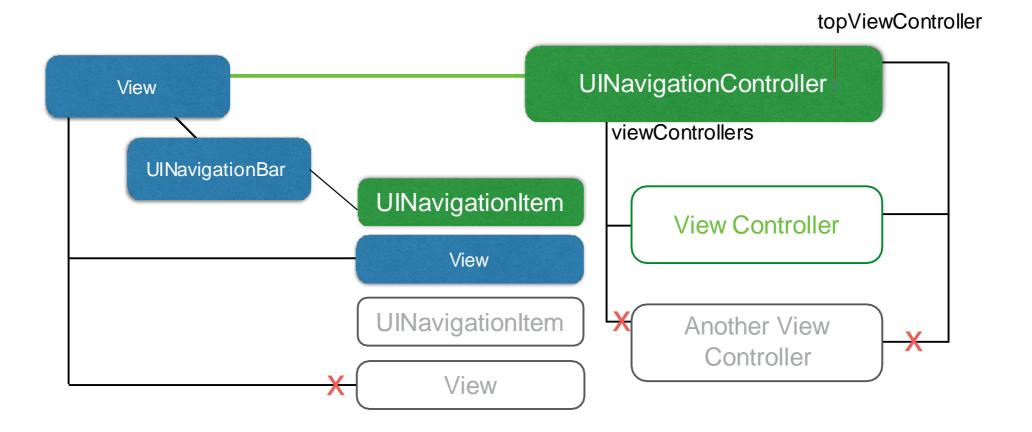


topViewController UINavigationController View viewControllers UINavigationBar UINavigationItem View Controller View UlNavigationItem **Another View** Controller View POP











- Automatic Reference Counting (ARC)
- weak vs strong pointers



```
class ParentController {
 var child
}
```

```
child = ChildController()
child.parent = self
...
child = nil
```

```
class ChildController {
var parent
}
```



```
class ParentController {
 var child
}
```

```
child = ChildController()
child.parent = self
...
child = nil
```

```
class ChildController {
    weak var parent
  }
```



```
class ParentController {
 var child
}
```

```
class ChildController {
    weak var parent
  }
```

```
child = ChildController()
child.parent = self
...
// автоматично: child.parent = nil
child = nil
```



Storyboards

Demo



Segue



Segue

- Built-in ("show", "present modally")
- Manual segue
- Unwind segue



Constraints





Constraints

Contraint contain:

- Item 1
- Item 2
- Relation
- Constant
- Multiplier
- Priority

$$X = A*Y + B$$



Constraints

DEMO



Storyboard vs XIB

- Unavailable segues in xibs
- Xib can store only views, but not a controllers
- In xib you cannot configure controller properties
- Xib content can be reused



Отже

- Ієрархія UIViewController та UIView
- Контейнери-контролери
- Відображення даних у елементах інтерфейсу (UlLabel, UllmageView, ...)
- Storyboard/XIB: Outlets / actions, segues
- Constraints