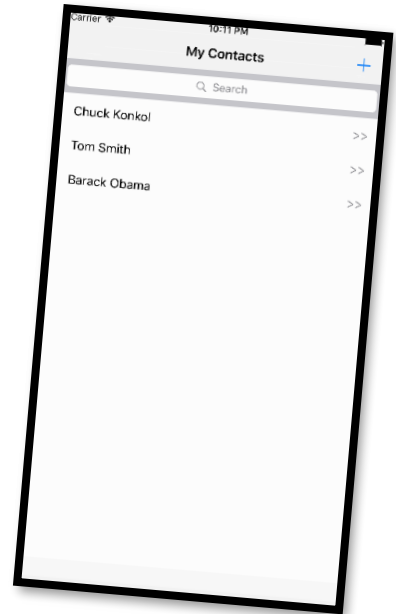
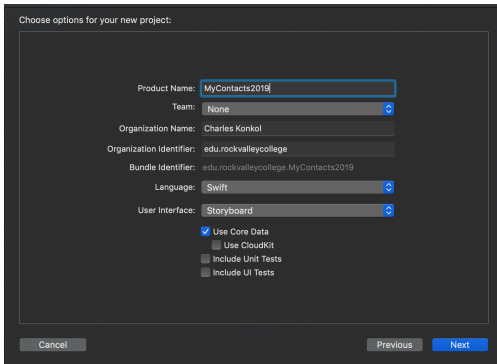
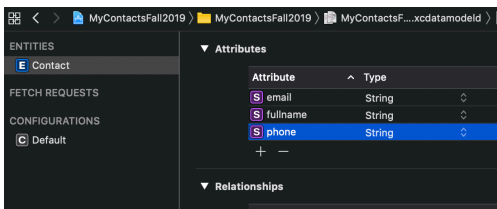


Contact Database using CoreData and UITableView

- 1) Create a new single view project & make sure CoreData is checked, Universal, Swift
- 2) Name Project: MyContacts > Next > Save to Desktop

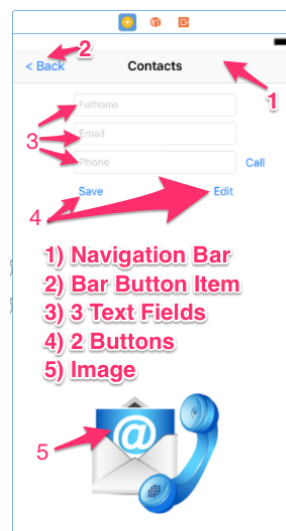


- 3) Uncheck ALL but “Portrait Orientation” under Device Orientation
- 4) Click on CoreData Model “MyContacts.xcdatamodeld”
 - a. Click **Add Entity** + and rename **Entity** to **Contact**
 - b. Click + Attributes and add below (Must start with lowercase)
 - i. email Type:STRING
 - ii. fullname Type:STRING
 - iii. phone Type: STRING




- 5) Place objects on ViewController
 - a. Click on storyboard file
 - b. Place objects on ViewController (see photo)

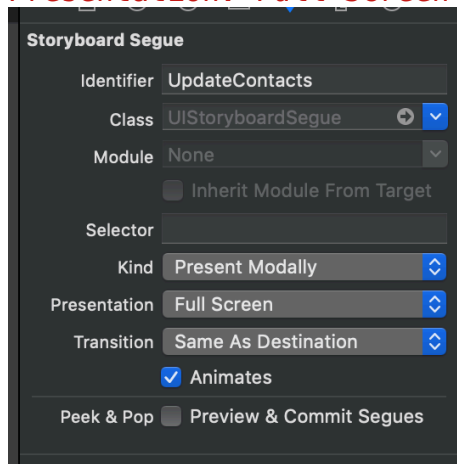
- 6) Bind Objects to code
 - a. Outlets
 - i. fullname
 - ii. email
 - iii. phone
 - iv. btnSave
 - v. btnEdit
 - vi. btnCall (DO NOT ADD)
 - vii. status (DO NOT ADD)
 - b. Actions
 - i. btnSave
 - ii. btnEdit
 - iii. btnCall
 - iv. btnBack



- c. Delegates from View Controller (Control + Drag to ViewController)
 - i. fullname
 - ii. email
 - iii. phone
 - d. Create **Images** group > Add call.png > bind to **image** property of Image View
- 7) Use Placeholder property of textfields to add FullName, Email, Phone

8) Add **TableViewController**

- a. Select UITableViewController > Editor > Embed In > Navigation Controller
- b. Select Navigation Controller > Attributes Inspector
 - i. Title: My Contacts
 - ii. Check (Is initial View Controller)
- c. Add **Bar Button Item**
 - i. Style: **Bordered**
 - ii. Identifier: **Add**
 - iii. **CNTRL + Drag to View Controller > Present Modally & Presentation: Full Screen**
- d. Select **Table View Cell**
 - i. Style: **Right Detail**
 - ii. Identifier: **Cell**
 - iii. **CNTRL + Drag Table View Cell to View Controller > Present Modally**
 - iv. Click  > **Storyboard Segue Identifier: UpdateContacts**
 - v. **Presentation: Full Screen**



- vi.
 - e. Select **Navigation Item**
 - i. Title: **My Contacts**
 - f. Save: Command + S
- 9) Add UITableViewController and Bind to TableView
- a. Right-Click on ProjectName
 - b. Select **New File**
 - c. **iOS Source > Cocoa Touch Class > Next**
 - d. **SubClass: UITableViewController, Class: ContactTableViewController**
 - e. **Next > Create**
 - f. Click on StoryBoard > **UITableView**
 - g. Select **Identity Inspector** > Class: > Select **ContactTableViewController**
- 10) Code for **ViewController**. See [code](#)
- 11) Code for **ContactTableViewController**. See [code](#)

12) Auto Resize Objects

- a. Select StoryBoard
- b. Select Top Part of ViewController and ContactTableViewController
- c. **Editor > Resolve AutoLayout Issues > Reset to Suggested Constraints**

13) Test

- a. Add: clicking + symbol to add contact
- b. Update: clicking existing table row > Edit > Update
- c. Delete: Swipe left on table row and delete

14) **Challenge:** Create new icon, launchscreen image and viewController image

- a. See [link](#)