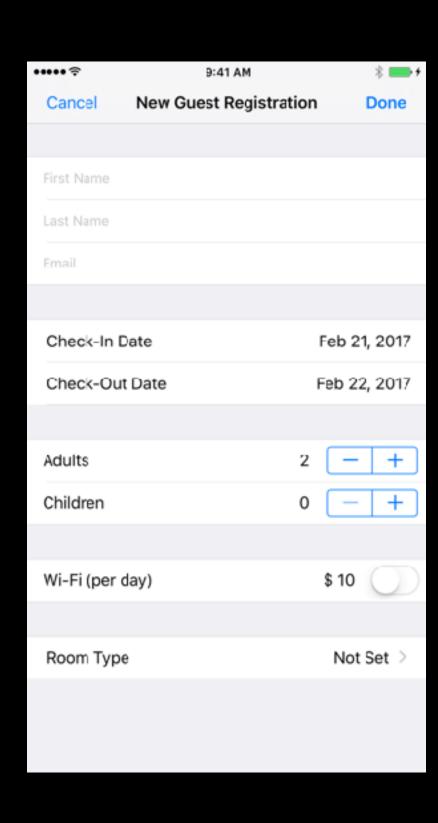
Unit 4—Lesson 9: Building Complex Input Screens

Complex input screens Hotel Manzana



Data models

Registration

First & last name

Email address

Check-in and check-out dates

Number of adults

Number of children

Wi-Fi (per day)

Room type

Room Type

ID

Name

Short name

Price

Data models

```
struct Registration {
    var firstName: String
    var lastName: String
    var emailAddress: String
    var checkInDate: Date
    var checkOutDate: Date
    var numberOfAdults: Int
    var numberOfChildren: Int
    var roomType: RoomType
    var wifi: Bool
```

```
struct RoomType: Equatable {
  var id: Int
  var name: String
  var shortName: String
  var price: Int
  //Equatable Protocol Implementation for RoomType
  static func == (lhs: RoomType, rhs: RoomType) -> Bool {
    return lhs.id == rhs.id
```

Converting dates to strings Date style

Style	dateStyle	timeStyle
none		
•short	11/23/37	3:30 PM
<pre>medium</pre>	Nov 23. 1937	3:30:32 PM
<pre>long</pre>	November 23, 1937	3:30:32 PM PST
•full	Tuesday, April 12, 1952 AD	3:30:42 PM Pacific Standard Time

```
let dateFormatter = DateFormatter()
dateFormatter.dateStyle = .medium
```

Converting dates to strings

```
let dateFormatter = DateFormatter()
dateFormatter.dateStyle = .medium

checkInDateLabel.text = dateFormatter.string(from: checkInDatePicker.date)
```

Date picker UIDatePicker and datePickerMode

Novem		2014	
Decem		2015	
Januar	y 14	2016	
Februa	ary 15	2017	
March	16	2018	
April	17	2019	
May	18	2020	

11	38		
12	39		
1	40	AM	
2	41	PM	
3	42		
4	43		
5	44		

Sun Feb 12 Mon Feb 13		38		
Tue Feb 14	1	40	AM	
Today	2	41	PM	
Thu Feb 16	3	42		
Thu Feb 16 Fri Feb 17	3	42 43		

	58
	59
	0
0 hours	1 min
1	2
2	3
3	4

Date date

Time time

Date and time
dateAndTime

Countdown timer countDownTimer

Date picker Parameters

minimumDate and maximumDate

Minimum date must be earlier than maximum date

minuteInterval

- · For minute wheel, if displayed
- Must be evenly dividable into 60

Adjusting cell heights tableView(_:heightForRowAt:)

Allows the delegate to specify rows with varying heights

Use indexPath to determine the row in tableView

Returned value overrides the value specified for the rowHeight property of UITableView for the given row

```
override func tableView(_ tableView: UITableView,
                        heightForRowAt indexPath: IndexPath) -> CGFloat {
    switch (indexPath.section, indexPath.row) {
        case (datePickerCellIndexPath.section, datePickerCellIndexPath.row):
            if isDatePickerShown {
                return 216.0
            } else {
                return 0.0
       default:
            return 44.0
```

Unit 4—Lesson 9 Complex Input Screens



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 9 Lab: Employee Roster



Create a screen that accepts complex user input to build an employee roster that keeps track of employee information