Developing Applications for iOS



Lab 5: Nearby Deals (1 of 6)

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Description:

We are going to build a new application that will show deals from nearby restaurants and bars. The application will display the deals in two modes: a list view (using a UITableViewController) and a map view (using a MKMapView). We will request the deals from a server (www.geoadsplus.com to be more precise). We will use XML to communicate with this server. Note that XML and JSON are standard ways of communicating with a server.

We have to pass the device location (latitude, longitude) to the server so that it gives us nearby deals. Thus, we will need to use Location Services to determine the device location.

We will offer details about our deals. We are going to use a navigation controller to navigate between the list View and the details View.

The following screenshots are just a mock-up of the application that we are going to start building today. We will continue this app during the next 5 labs.

Nearby Deals

19:57

Title

1 79%



ni... orange 🤶

Pranz Delicios la Il Calcio Cu 25 RON mananci pe saturate.

19:37

Title



Pizza Hut - Pranz Dupa... Intre 12:00-14:00 poti alege un meni...

1 86%



Pranz Delicios la Il Calcio Cu 25 RON mananci pe saturate.



Valea Regilor Oferta 5+



Buzunar

📶 orange 🤶

Back



Intre 12:00-14:00 poti alege un meniu de pranz la 10, 15 sau 20 de lei. Meniul de 10 lei inculde coltunasi si o pizza la alegere. Meniul de 15 lei include o salata Caprese si paste sau pizza la alegere. Meniul de 20 lei are in plus un desert si un pahar de suc.



Task 1

Task: Create a new application in Xcode called "NearbyDeals".

- Launch Xcode and select the "Create a new Xcode project" option. If you don't see the splash window, you should go to "File > New > New Project..." in Xcode menu.
- 2. Select the Single View Application template and click Next.
- We are actually going to build a Tabbed Application (using a UITabBarController) as you can see on the previous slide, but we are going to do it from scratch so that you can learn how to create complex Storyboards yourself.
- 3. Type in "NearbyDeals" for the Product Name.
- 4. Enter "com.FMI.FirstName.LastName" for the Company Identifier. Notice how Bundle Identifier changes as you type. You should obtain something like "com.FMI.Radu.Ionescu.Calculator" as your bundle identifier.
- 5. Enter "NearbyDeals" as the Class Prefix for the classes this template is going to generate for us.



Task: Create a new application in Xcode called "NearbyDeals".

- 6. Select "iPhone" for Device Family.
- 7. Check "Use Storyboard". We definitely want to use Storyboards for this app that will contain more Views. We will segue from one View to another using Storyboards.
- 8. Check "Use Automatic Reference Counting".
- 9. We won't be creating Unit Tests for this application so we are going to leave the "Include Unit Tests" option unchecked.

10. Click Next.

11. Navigate to "~/Developer/Apps/" folder inside the home directory. If you want to keep your project for later use, please save it in a directory with your name like this: "~/Developer/Apps/<YourName>".

12. Click Create to create your project directory inside the "~/Developer/Apps" folder.



- 1. Open up our MVC's View by clicking on MainStoryboard.storyboard in Project Navigator.
- 2. Hide the Document Outline if it's not already hidden.
- 3. We don't need the Project Navigator at the far left either, so let's hide it by using the "Hide or show the Navigator" button available on the Toolbar.
- 4. Bring up the Utilities area by clicking on the "Hide or show the Utilities" button that is also available on the Toolbar.
- In Utilities area, click on the Object Library (it might already be selected). Some objects (those appropriate to dragging into your View) should appear in the Object Library.
- 6. Your Xcode project should be set up as in the next screenshot. We are now ready to create the Storyboard.

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7. We are going to add a Table View Controller to our Storyboard that will contain the list of nearby deals. The current View Controller will be used to present deal details. We are going to create a segue from the Table View Controller to this View Controller.

Follow the instructions from the next slides to learn how to do this.







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- 8. We have created our first segue but there is a problem here. These View Controllers are not inside a UINavigationController. Push will do nothing in this case.
- We have to embed our View Controllers inside a Navigation Controller. Follow the instructions from the next slides to learn how to do this step.









- 9. In a similar way, we will embed the Navigation Controller inside a Tab Bar Controller. Note that this is always the way to go (we never embed a Tab Bar Controller inside a Navigation Controller).
- 10. To complete the application Storyboard we will add another View Controller to the Tab Bar for the map view.

Follow the instructions from the next slides to learn how to do these steps.





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the controller at index 1 the next tab to the right, and so on. If there are more view controllers than can fit in the tab bar, view controllers at the end of









Task 3

Task: Add tab icons for the two tabs of the application.

- 1. Open Project Navigator and right-click on the NearbyDeals Project.
- 2. Select the "Show in Finder" option.
- 3. In Finder create a new folder and name it "Images". We are going to use this folder to put images that we want to add to our Project. It is a good practice to keep a separate subfolder for this.
- 4. Copy and paste (using CMD + C and CMD + V, respectively) the "tab-icon-list.png" and "tab-icon-map.png" files to the "Images" subfolder. You might want to open another Finder window for this (use the CMD + N shortcut to do it).

See the next screenshots for extra help.





Task 3

Task: Add tab icons for the two tabs of the application.

- 5. Close Finder and go back to Xcode. It's time to add the Images subfolder to our Project.
- Right-click on the NearbyDeals Project and select the "Add Files to NearbyDeals ..." option.
- 6. Search for the "Images" folder you've just created.
- 7. Make sure "Create groups for any added folders" is selected.
- 8. Click "Add" to add the "Images" folder to your project.
- 9. Make sure the "Images" folder appears in Project Navigator before you continue.

See the next screenshot for extra help.

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Task: Add tab icons for the two tabs of the application.

- 10. Hide Project Navigator.
- 11. Continue with the steps from the following slides to add the tab icons and complete this task.



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- 1. Note that there is a Xcode Warning that tells us that we need to set the reuse identifier of the Prototype Cell.
- The reuse identifier is associated with a UITableViewCell object that the Table View's delegate creates with the intent to reuse it as the basis (for performance reasons) for multiple rows of a table view.
- It is assigned to the cell object in the initializer method initWithFrame:reuseIdentifier: and cannot be changed thereafter. A UITableView object maintains a queue (or list) of the currently reusable cells, each with its own reuse identifier, and makes them available to the delegate.
- The reuse identifier is just an NSString object that we can set up. It will be used to identify a type of cell.
- Let's set the reuse identifier to "DealCell". See the next slides for help.







2. We should set the Table View Controller title (that appears on the Navigation Bar). Note that each View Controller (including Table View Controllers) have a navigationItem that holds properties related to navigation.

We have to set the navigationItem.title property to "Nearby Deals", but we are going to do this in Interface Builder. See the following slides to understand what needs to be done.









- 3. Let's run the application and see how it looks by now. Notice that it has two tabs: one that shows an empty list of deals and another one that shows a white screen.
- 4. Stop running the application.
- 5. This all we can do from Interface Builder. Next we are going to have to write some code to show some mock-up data inside the Table View Controller. For this we need add a subclass of UITableViewController to our project and create a relationship between this subclass and the Table View Controller inside our Storyboard.
- Let's open Project Navigator and continue with the following screenshots that guide you through adding a subclass of UITableViewController.

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- 6. Close the Project Navigator and Utilities area to make room for the Assistant Editor.
- 7. We are going to modify the DealsTableViewController.m file. Open it in Assistant Editor. Note that when you select a View Controller in your Storyboard, Xcode will automatically select its class files in Assistant Editor.

We will add a very simple model to our Table View Controller that will hold the mock-up data that we want to present in our table. We are going to re-implement some of the Table View dataSource methods to present the data in our Table View.

The next slides will show you how to do this.

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	NearbyDeals > iPhone 5.1 Simulator	ished running NearbyDeals on iPhone 5.1 Simulat
	Run Stop Scheme Breakpoints	No Issues Editor View Organizer
4	MainStoryboard.storyboard	
?	When you're done implementing the m	Automatic / m Deals LableviewController.m / M -tableview:cellForkowAtindexPath:
-	when you're done implementing the mo	e"Second Deal", e"Third Deal",
~		OI. @"Another Deal", nil];
Š	Nearby Deals	<pre>} return _nearbyDeals;</pre>
ž	Prototype Cells 65	}
2	67 68	#pragma mark - Table view data source
2	69 70	<pre>- (NSInteger)numberOfSectionsInTableView:(UITableView *)tableView {</pre>
22	71 72	<pre>// Return the number of sections. return 1; Use @"DealCell" as the CellIdentifier.</pre>
4	73 74	
W	75 76	<pre>- (NSInteger)tableView:(UITableView *)tableView numberOfRowsInSection:(NSInteger)section {</pre>
-	77 78	// Return the number of rows in the section. return self.nearbyDeals.count;
-	Table View 80	
	Hold down option key and double-click	<pre>- (UllableView.ell *)tableView:(UllableView *)tableView cellForRowAtIndexPath:(NSIndexPath *)indexPath {</pre>
>-	on the UITableViewCell to open this	<pre>static wsstring *celldentifier = @"Dealcell"; UITableViewCell *cell = [tableView dequeueReusableCellWithIdentifier:CellIdentifier];</pre>
	class documentation. Note that a	<pre>cell.textLabel.text = [self.nearbyDeals objectAtIndex:indexPath.row];</pre>
7	UITableViewCell includes properties	return cell;
	for setting and managing cell content	
	specifically text and images	// Override to support conditional editing of the table view.
	speemeany text and images.	Equation of the are going to out an NSString
	96	freturn YES;
	98	"/ Ifom the nearby Deals anay in its textLabel.
		/* VVE USE THE indexPath.row TO determine THE
0	102	(void row index of the cell we are currently configuring ty le) editing Style
		Note that indexPath.section returns the
	106	} [table section index of that cell. The row index is RowAnimation: UITable
	400	relative to the section index, but we don't have to
		worry about this since we only have one section.

Assignment 1

Assignment: Add enough mock-up deals when creating the nearbyDeals array so that the Table View will have to use scrolling to display all its cells.

Hint: You should add more than 9 objects to the NSArray that is the Model of our Table View Controller.

Congratulations!