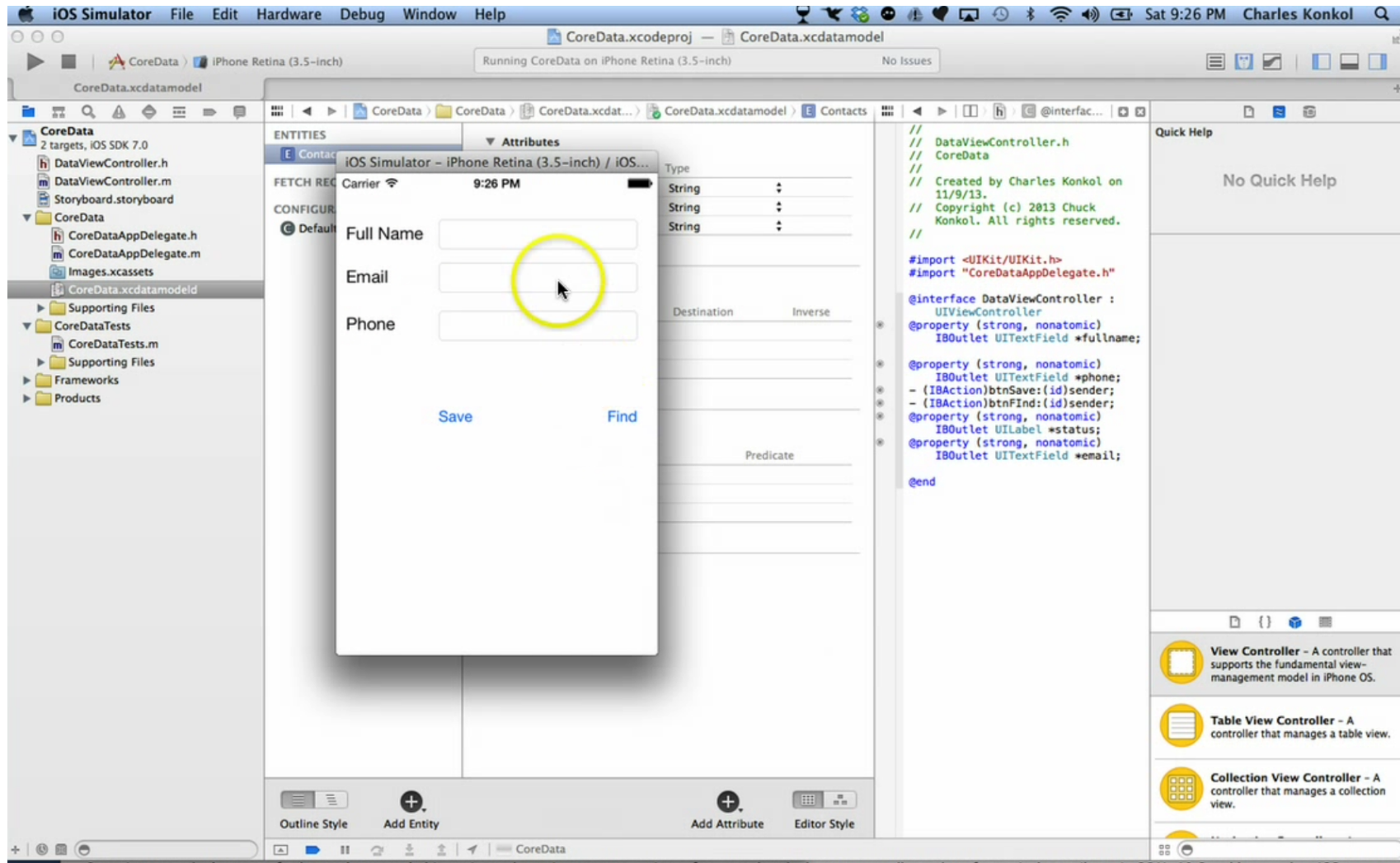


Core Data iOS 7

Core Data has been upgraded significantly in iOS7. [Read](#)
Create a searchable contact database with Core Data.



[Core Data is only available in Blank, Utility and Master/Detail projects]

- 1) Create New Blank Project, Select Core Data, Name CoreData
- 2) Name CoreData and add entities for coredata
 - a. Select CoreData.xcdatamodeld
 - b. Under Entities Select CoreData and Rename to Contact
 - c. FullName – String
 - d. Email – String
 - e. Phone – String
- 3) Add StoryBoard
- 4) Add ViewController
- 5) Add UIViewController Class and bind to View
- 6) Modify delegate.m launchOptions. Comment out all lines except return YES;
– (BOOL)application:(UIApplication *)application didFinishLaunchingWithOptions:(NSDictionary *)launchOptions
{
 // self.window = [[UIWindow alloc] initWithFrame:[[UIScreen mainScreen] bounds]];
 // Override point for customization after application launch.
 //self.window.backgroundColor = [UIColor whiteColor];
 // [self.window makeKeyAndVisible];
 return YES;
}
}
- 7) Add Objects to View: 3 UITextFields, 1 UILabel & 2 Buttons (See Cover Page for Layout)
- 8) Bind outlets and actions to .h and .m
 - a. UITextFields - Outlets
 - i. fullname
 - ii. email
 - iii. phone
 - b. UILabel - OutLet
 - i. status
 - c. UIButtons - Actions
 - i. btnFind
 - ii. btnSave
- 9) Add #import “[nameofproject]appdelegate.h” into [nameofviewController].h

10)Add code to save

```
- (IBAction)btnSave:(id)sender {
    //Load CoreData Contacts Table
    CoreDataAppDelegate *appDelegate = [[UIApplication sharedApplication] delegate];

    NSManagedObjectContext *context = [appDelegate managedObjectContext];

    NSManagedObject *newContact;

    newContact = [NSEntityDescription insertNewObjectForEntityForName:@"Contacts" inManagedObjectContext:context];

    //Connect TextFields to DataFields

    [newContact setValue: fullname.text forKey:@"fname"];

    [newContact setValue: email.text forKey:@"email"];

    [newContact setValue: phone.text forKey:@"phone"];

    //Clear testfields after save
    fullname.text = @"";
    email.text = @"";
    phone.text = @"";
    NSError *error;
    //Save
    [context save:&error];
    status.text = @"Contact saved";
}
```

11)Add code to btnFind

```
- (IBAction)btnFind:(id)sender {
    CoreDataAppDelegate *appDelegate = [[UIApplication sharedApplication] delegate];

    NSManagedObjectContext *context = [appDelegate managedObjectContext];

    NSEntityDescription *entityDesc = [NSEntityDescription entityForName:@"Contacts" inManagedObjectContext:context];

    NSFetchRequest *request = [[NSFetchRequest alloc] init];

    [request setEntity:entityDesc];

    //http://stackoverflow.com/questions/2036094/case-insensitive-core-data-contains-or-beginswith-constraint
    //https://developer.apple.com/library/mac/documentation/Cocoa/Conceptual/Predicates/Articles/pSyntax.html

    NSPredicate *pred = [NSPredicate predicateWithFormat:@"(fname CONTAINS[cd] %@)", fullname.text];

    [request setPredicate:pred];

    NSManagedObject *matches = nil;

    NSError *error;

    NSArray *objects = [context executeFetchRequest:request error:&error];

    if ([objects count] == 0) {
        status.text = @"No matches";
    } else {
        matches = objects[0];
        fullname.text = [matches valueForKey:@"fname"];
        email.text = [matches valueForKey:@"email"];
        phone.text = [matches valueForKey:@"phone"];
        status.text = [NSString stringWithFormat:@"%lu matches found", (unsigned long)[objects count]];
    }
}
```