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 ViewControl
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
8) Bind outlets and actions to .h and .m
9) Add #import "[nameofproject]appdelegate.h" into [nameofviewcontroller].h

10)Add code to save

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

    NSManagedObjectContext *context =
    [appDelegate managedObjectContext];
    NSManagedObject *newContact;
    newContact = [NSEntityDescription
                    insertNewObjectForEntityForName:@"Contacts"
                    inManagedObjectContext:context];
    [newContact setValue: fullname.text forKey:@"fname"];
    [newContact setValue: email.text forKey:@"email"];
    [newContact setValue: phone.text forKey:@"phone"];
    fullname.text = @"";
    email.text = @"";
    phone.text = @"";
    NSError *error;
    [context save:&error];
    status.text = @"Contact saved";
}
```

11)Add code to find

```objc
- (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-contraint

//https://developer.apple.com/library/mac/documentation/Cocoa/Con
ceptual/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]];
    }
}
```