Core Data Fundamentals

Basic Reading and Writing Data

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Introduction

Configure Core Data Stack

NSEntityDescription

NSManagedObject

NSFetchRequest

Core Data Stack
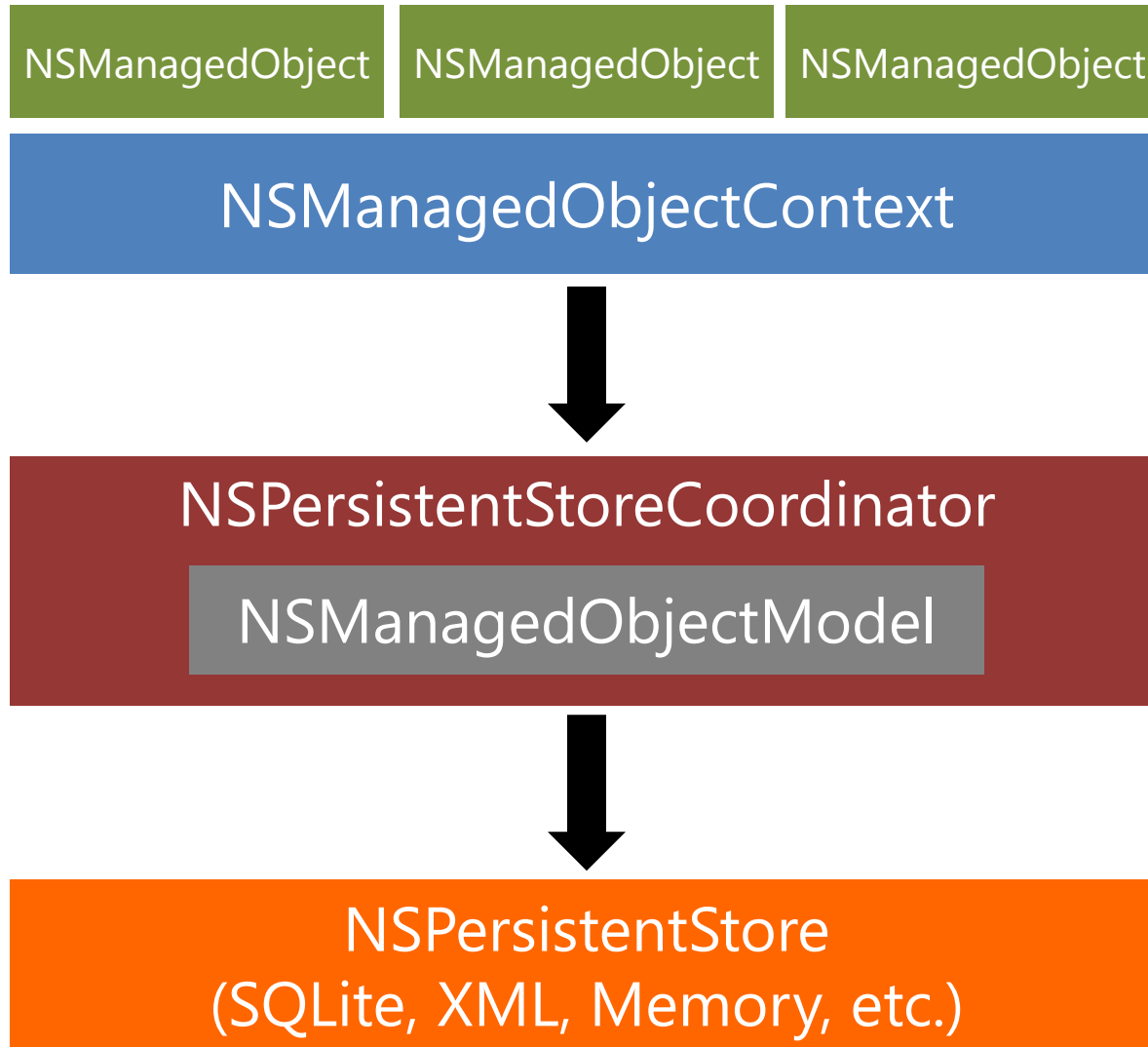
NSManagedObject	NSManagedObject	NSManagedObject

NSManagedObjectContext

↓

NSPersistentStoreCoordinator

NSManagedObjectModel

↓

NSPersistentStore
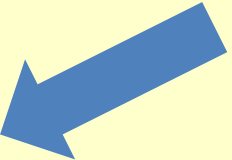**(SQLite, XML, Memory, etc.)**

NSEntityDescription

```objc
DataStore *dataStore = [DataStore sharedDataStore];
NSManagedObjectContext *context = [dataStore context];

NSEntityDescription *desc;
desc = [NSEntityDescription entityForName:@"ItemCategory"
                  inManagedObjectContext:context];
```

```objc
DataStore *dataStore = [DataStore sharedDataStore];
NSManagedObjectContext *context = [dataStore context];

NSManagedObject *obj;
obj = [NSEntityDescription insertNewObjectForEntityForName:@"ItemCategory"
                                    inManagedObjectContext:context];
```
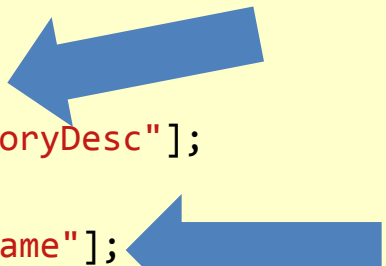
NSManagedObject

```objc
DataStore *dataStore = [DataStore sharedDataStore];
NSManagedObjectContext *context = [dataStore context];

NSManagedObject *category1;
category1 = [NSEntityDescription insertNewObjectForEntityForName:@"ItemCategory"
                                      inManagedObjectContext:context];


[category1 setValue:@"Electronics" forKey:@"categoryName"];
[category1 setValue:@"Rarely Purchased Gadgets" forKey:@"categoryDesc"];


NSString *newCategoryName = [category1 valueForKey:@"categoryName"];
```
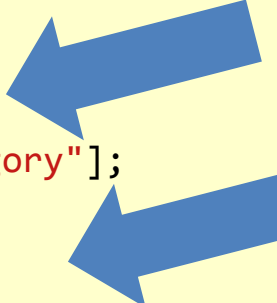
NSFetchRequest

```objc
DataStore *dataStore = [DataStore sharedDataStore];
NSManagedObjectContext *context = [dataStore context];

NSFetchRequest *req;
req = [NSFetchRequest fetchRequestWithEntityName:@"ItemCategory"];

NSError *error;
NSArray *allCategories = [context executeFetchRequest:req error:&error];

if (!allCategories) {
    NSLog(@"An error occurred. Error: %@", [error localizedDescription]);
}
```

Summary

Configure Core Data Stack

NSEntityDescription

NSManagedObject

NSFetchRequest