```objc
//
//  Address+Create.m
//  AddressBook
//
//  Created by yiner on 2018/6/19.
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//
//

#import "Address+Create.h"

#define ADDRESS_NAME @"name"
#define ADDRESS_PHONE @"phone"
#define ADDRESS_EMAIL @"email"
#define ADDRESS_ADDRESS @"address"
#define ADDRESS_WECHAT @"weChat"
#define ADDRESS_IMAGE @"image"

@implementation Address (Create)

+ (NSArray *) fetchDataWithName:(NSString *) name
inManagedObjectContext:(NSManagedObjectContext *)context
{
    NSArray *matches = nil;
    // Build a fetch request to see if we can find the address of that
named person in the database.
    NSFetchRequest *request = [NSFetchRequest
fetchRequestWithEntityName:@"Address"];
    request.sortDescriptors = @[[NSSortDescriptor
sortDescriptorWithKey:@"name" ascending:YES
selector:@selector(localizedCaseInsensitiveCompare:)]];
    request.predicate = [NSPredicate predicateWithFormat:@"name
= %@",name];

    // Execute the fetch
    NSError *error;
    matches = [context executeFetchRequest:request
error:&error];

    return matches;
}
```

```objc
+ (void) insertDataWithAddressInfo:(NSDictionary *)info
inManagedObjectContext:(NSManagedObjectContext *)context
{
    Address *address = nil;

    NSArray* matches = [self
fetchDataWithName:info[ADDRESS_NAME]
inManagedObjectContext:context];


    // Check what happened in the fetch
    if (!matches || ([matches count] > 1)) {   // nil
means fetch failed; more than one impossible (unique!)
        // handle error
    } else if (![matches count]) {   // none found, so let's
create a address for that named person
        address = [NSEntityDescription
insertNewObjectForEntityForName:@"Address"
inManagedObjectContext:context];
        address.name = info[ADDRESS_NAME];
        address.phone = [info[ADDRESS_PHONE] intValue];
        address.email = info[ADDRESS_EMAIL];
        address.address = info[ADDRESS_ADDRESS];
        address.weChat = info[ADDRESS_WECHAT];
        //address.image = info[ADDRESS_IMAGE];

    } else { // found the Photo, just return it from the list of
matches (which there will only be one of)
        address = [matches lastObject];
    }
}

+ (BOOL) UpdateDataWithAddressInfo:(NSDictionary *)info
andOldName:(NSString *)oldname
inManagedObjectContext:(NSManagedObjectContext *)context
returnAddress:(Address *)newAddress
{
    Address *address = nil;
```

```objc
    NSArray* matches = [self fetchDataWithName:oldname
inManagedObjectContext:context];

    // Check what happened in the fetch
    if ([matches count] != 1) {
        // handle error
    } else  {
        address = [matches lastObject];

        address.name = info[ADDRESS_NAME];
        address.phone = [info[ADDRESS_PHONE] intValue];
        address.email = info[ADDRESS_EMAIL];
        address.address = info[ADDRESS_ADDRESS];
        address.weChat = info[ADDRESS_WECHAT];
        //address.image = info[ADDRESS_IMAGE];
    }

    // save
    NSError *error = nil;
    if ([context save:&error]) {
        NSLog(@"更新数据成功");
        newAddress = address;
        return YES;
    } else {
        NSLog(@"更新数据失败，%@", error);
        return NO;
    }

}

+ (BOOL) deleteDataWithName:(NSString *)name
inManagedObjectContext:(NSManagedObjectContext *)context
{
    Address *address = nil;
    NSArray* matches = [self fetchDataWithName:name
inManagedObjectContext:context];
    address = [matches lastObject];
    [context deleteObject:address];
```

```objc
    // save
    NSError *error = nil;
    if ([context save:&error]) {
        NSLog(@"删除数据成功");
        return YES;
    } else {
        NSLog(@"删除数据失败，%@", error);
        return NO;
    }
}

@end
```