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https://chatgpt.com/g/g-p-67ac9f29422881918fa91fd5e106c516-ios/c/67cc4e3b-b6a4-8009-bb38-c0ed6bd0f9dc

Ios - Recipe Decodable Conformance Error

in my recipe final class i have them as theses and then i manually encdoe and decode them to make them confrom to codable but what should i do so it works var ingredients: [String] var instructions: [String]

Since you're manually encoding and decoding the ingredients and instructions arrays to make them conform to Codable, but CoreData does not support storing Array<String> directly, you need to store them as String in CoreData while keeping your Swift model using [String]. Here's how you can modify your Recipe final class to work correctly with CoreData and Codable.

#### 1. Modify Your CoreData Model

- Change ingredients and instructions attributes from Array<String> to String (use String in the CoreData model).
- These will store JSON-encoded arrays.

#### 2. Update Your Recipe Model

Modify your Recipe class to manually encode/decode ingredients and instructions:

```
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swift
import Foundation
import CoreData
@objc(Recipe)
final class Recipe: NSManagedObject, Codable {
    @NSManaged var id: UUID
    @NSManaged var name: String
    @NSManaged private var ingredientsData: String // Stored as JSON string
    @NSManaged private var instructionsData: String // Stored as JSON string
    var ingredients: [String] {
            return (try? JSONDecoder().decode([String].self, from: Data(ingredientsDa
            if let data = try? JSONEncoder().encode(newValue),
              let jsonString = String(data: data, encoding: .utf8) {
                ingredientsData = jsonString
    var instructions: [String] {
            return (try? JSONDecoder().decode([String].self, from: Data(instructionsData)
        set {
            if let data = try? JSONEncoder().encode(newValue),
              let jsonString = String(data: data, encoding: .utf8) {
                instructionsData = jsonString
    // MARK: - Codable Conformance
    enum CodingKeys: String, CodingKey {
        case id, name, ingredients, instructions
    required convenience init(from decoder: Decoder) throws {
        guard let context = decoder.userInfo[CodingUserInfoKey.managedObjectContext] {
            throw DecoderError.missingContext
        self.init(context: context)
        let container = try decoder.container(keyedBy: CodingKeys.self)
        self.id = try container.decode(UUID.self, forKey: .id)
        self.name = try container.decode(String.self, forKey: .name)
        self.ingredients = try container.decode([String].self, forKey: .ingredients)
        self.instructions = try container.decode([String].self, forKey: .instructions
    func encode(to encoder: Encoder) throws {
        var container = encoder.container(keyedBy: CodingKeys.self)
        try container.encode(id, forKey: .id)
        try container.encode(name, forKey: .name)
        try container.encode(ingredients, forKey: .ingredients)
        try container.encode(instructions, forKey: .instructions)
// Custom error for missing Core Data context
enum DecoderError: Error {
    case missingContext
```

### 3. Explanation of Changes

- ✓ ingredientsData and instructionsData (CoreData Attributes)
- These store JSON-encoded String representations of [String].
- ▼ Computed properties ingredients and instructions
- Getter: Decodes JSON String into [String]. • **Setter**: Encodes [String] into JSON String before storing.
- Codable Conformance
- The init(from decoder:) initializer ensures that CoreData's NSManagedObjectContext is correctly used when decoding.
- The encode(to encoder:) method ensures proper encoding.
- ✓ Handles CoreData + Codable at the same time!

#### 4. Update Your CoreData Model

- Open Core Data Model Editor ( .xcdatamodeld ).
- Update:
- ingredientsData → String • instructionsData → String
- 5. How to Use It in Swift

# **Creating a Recipe**

```
let newRecipe = Recipe(context: managedObjectContext)
newRecipe.id = UUID()
newRecipe.name = "Pancakes"
newRecipe.ingredients = ["Flour", "Milk", "Eggs", "Sugar"]
newRecipe.instructions = ["Mix ingredients", "Cook on a pan", "Serve with syrup"]
   try managedObjectContext.save()
   print("Recipe saved successfully!")
} catch {
   print("Failed to save: \(error.localizedDescription)")
```

#### **Fetching Recipes**

```
let fetchRequest: NSFetchRequest<Recipe> = Recipe.fetchRequest()
   let recipes = try managedObjectContext.fetch(fetchRequest)
    for recipe in recipes {
       print("Recipe Name: \(recipe.name)")
       print("Ingredients: \(recipe.ingredients)")
       print("Instructions: \(recipe.instructions)")
} catch {
   print("Fetch failed: \(error.localizedDescription)")
```

## Why This Works? Ask anything ( + ) ( ⊕ Search ) ( ••• )