07/03/2025, 08:40 DeepSeek - Into the Unknown

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help me i modified i need to modify my fetch function to be able to acts a completion handler to notify when the data fetching is complete so that is updated only after the data has been fetched.

.func fetch() { //5

Modify Fetch Function for Completion Handler

```
guard let url = URL(string: "https://dummyjson.com/recipes?limit=0") else { return }
let task = URLSession.shared.dataTask(with: url) { [weak self] data, response, error in
 guard let data = data, error == nil else {
    print("Error fetching data: \(error?.localizedDescription ?? "Unknown error")")
    return
  do {
    let recipesResponse = try JSONDecoder().decode(RecipesResponse.self, from: data)
    self?.courses = recipesResponse.recipes
    DispatchQueue.main.async {
       self?.courses = recipesResponse.recipes
    if let firstRecipe = self?.courses.first {
      print("Recipe Name: \(firstRecipe.name)")
      print("Instructions:")
      for instruction in firstRecipe.instructions {
        print("-\(instruction)")
      print("Image URL: \(firstRecipe.image)")
    } else {
      print("No recipes found")
  } catch {
    print("Error decoding JSON: \(error)")
```

To modify your fetch function to act as a completion handler, you can add a closure parameter that will be called once the data fetching is complete. This way, you can notify the caller when the data has been fetched and updated.

task.resume() // Resume the task to initiate the request

```
Here's how you can modify your fetch function:
 swift
                                                                                         Copy
 func fetch(completion: @escaping (Bool) -> Void) {
    guard let url = URL(string: "https://dummyjson.com/recipes?limit=0") else {
        completion(false) // Notify that fetching failed due to invalid URL
     let task = URLSession.shared.dataTask(with: url) { [weak self] data, response, error in
        guard let data = data, error == nil else {
            print("Error fetching data: \(error?.localizedDescription ?? "Unknown error")")
            completion(false) // Notify that fetching failed
            return
             let recipesResponse = try JSONDecoder().decode(RecipesResponse.self, from: data)
            self?.courses = recipesResponse.recipes
            DispatchQueue.main.async {
                self?.courses = recipesResponse.recipes
                completion(true) // Notify that fetching and updating is complete
            if let firstRecipe = self?.courses.first {
                print("Recipe Name: \(firstRecipe.name)")
                print("Instructions:")
                for instruction in firstRecipe.instructions {
                   print("- \(instruction)")
                print("Image URL: \(firstRecipe.image)")
            } else {
                print("No recipes found")
        } catch {
            print("Error decoding JSON: \(error)")
            completion(false) // Notify that decoding failed
     task.resume() // Resume the task to initiate the request
```

Explanation:

1. Completion Handler: The fetch function now takes a closure completion: @escaping (Bool) – > Void as a parameter. This closure will be called with a Bool value indicating whether the data fetching and updating was successful (true) or not (false).

2. Completion Calls:

false.

If the URL is invalid, the completion handler is called with false immediately.
If the data fetching fails (e.g., due to network error), the completion handler is called with

o If the data is successfully fetched and decoded, the completion handler is called with true after updating the courses property on the main thread.

Noin Thread Undate: The courses property is updated on the main thread using

3. Main Thread Update: The courses property is updated on the main thread using
DispatchQueue.main.async, ensuring that any UI updates based on this property are performed on the main thread.

Usage:

You can now call the fetch function and provide a completion handler to be notified when the data fetching is complete:

```
fetch { success in
   if success {
      print("Data fetched and updated successfully!")
      // Perform any UI updates or other actions here
   } else {
      print("Failed to fetch data.")
   }
}
```

This approach ensures that your data is only considered "updated" after the fetch operation is complete, and you can handle the result appropriately in your completion handler.

cant i keep it to return void and preform completion after the self?.courses = recipesResponse.recipes

Yes, you can definitely modify the fetch function to return Void and simply perform the completion handler after updating self?.courses. This approach is cleaner if you don't need to pass any specific result (like a Bool for success/failure) back to the caller. Instead, you can just notify the caller that the data fetching and updating is complete.

Here's how you can modify your fetch function to return Void and call the completion handler after updating self?.courses:

Updated Code:

Message DeepSeek

Ø DeepThink (R1) ⊕ Search

```
swift
                                                                                       Copy
func fetch(completion: @escaping () -> Void) {
   guard let url = URL(string: "https://dummyjson.com/recipes?limit=0") else {
       return
    let task = URLSession.shared.dataTask(with: url) { [weak self] data, response, error in
       guard let data = data, error == nil else {
          print("Error fetching data: \(error?.localizedDescription ?? "Unknown error")")
           let recipesResponse = try JSONDecoder().decode(RecipesResponse.self, from: data)
           // Update `courses` on the main thread
           DispatchQueue.main.async {
              self?.courses = recipesResponse.recipes
              completion() // Notify that fetching and updating is complete
           // Debugging: Print the first recipe (optional)
           if let firstRecipe = recipesResponse.recipes.first {
              print("Recipe Name: \(firstRecipe.name)")
              print("Instructions:")
              for instruction in firstRecipe.instructions {
                  print("- \(instruction)")
              print("Image URL: \(firstRecipe.image)")
          } else {
              print("No recipes found")
      } catch {
           print("Error decoding JSON: \(error)")
```

Al-generated, for reference only