

# Compass Concurrent API Calls Documentation

## Introduction

In **Compass App**, customers are paramount as they are instrumental on our growth. Therefore, it's imperative that our app functions flawlessly, including the seamless execution of networking calls. This pivotal aspect is crucial in enhancing the app's flow, thus directly impacting the overall user experience. This document's main objective is to demonstrate and highlight how **Every 10 characters** and **Word Count** network calls were implemented, how we can verify their content and what was used in their creation, to fulfill the goal of enhancing customer satisfaction.

## Feature Description

### User Flow

- Customer's first encounter as soon as the app is shown is the *loading* or *launch* screen. Here they can find **Compass** logo presentation animation, then, a couple seconds before they are redirected to the main app screen.
- Within the main screen, they are presented with a button, two text pieces inviting them to click said button so the data from the sample text is gathered and updated in the text pieces. They can also find a toggle button labeled *Tap for Detail* which will enable or disable the *detail view*.
- Touching the text pieces summons a *detail view*, which displays the information in larger format.

## Technical Overview

### Technologies Used

- Swift (iOS native programming language)
- Alamofire (HTTP networking library)
- SwiftSoup (HTML parsing and manipulating library)
- OHHTTPStubs (Mocking network requests library)

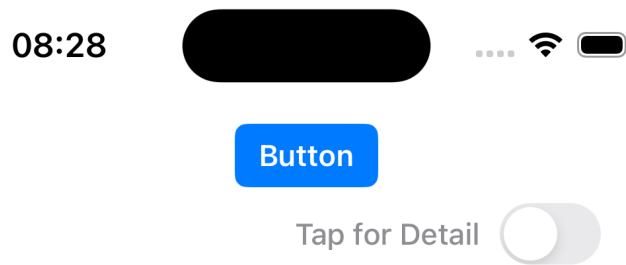
## Implementation Details

- Text data is retrieved from *Compass* about webpage.
- OHHTTPStubs library is used on unit testing.

## Setup and Usage

### For End Users

1. Locate unique button to perform requests and retrieve data:



### Every 10th Character Request

Tap the button to retrieve and show every 10th character from the sample text.

### Word Counter Request

---

## 2. Once tapped, parsing is completed:

08:29



Button

Tap for Detail ☐

### Every 10th Character Request

osre usvmir sddsdi rC eeHy  
ebhscne utosgcv fo o C a  
hwdiapnao u aodef abeaid c at r  
uyo io tle sarrmt orpmildiib a.ns  
srtte n.t svt r  
rrnr.tsdregnotendkads. nrstyNoa t  
s iC aoiii,,,snwNNleTg n ahl ;Ren  
we,isGidLemrdC unrs635,  
1949709.napokdnpoyi  
ndemtpicbdi xinter ava ta25os  
odalwlrctnponeils  
appe'eetenpn eoasulox  
vdogrgmveavnts,i n tgdlok

### Word Counter Request

future: 1

## 3. When activating detail toggle, detail view can be shown:

08:30



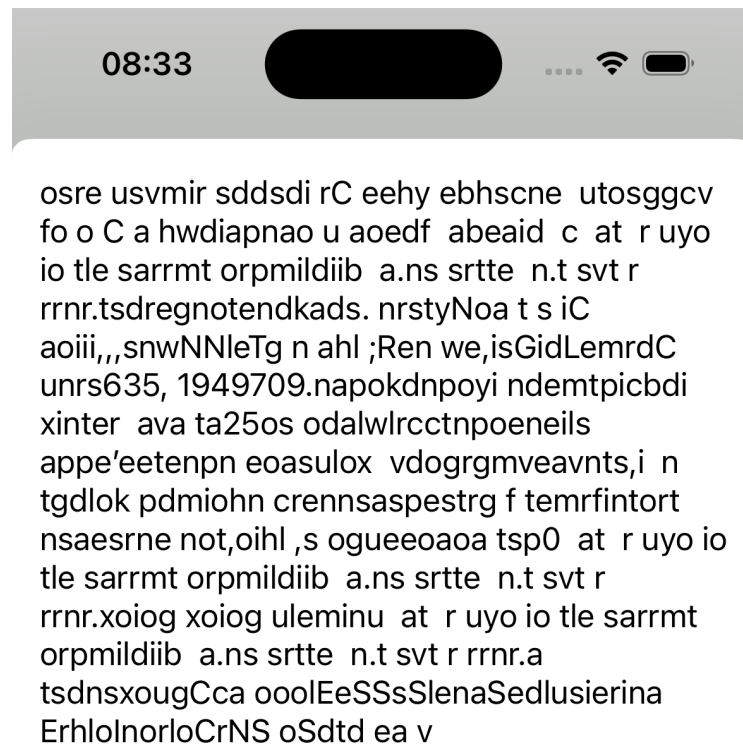
Button

Tap for Detail ☒

### Every 10th Character Request

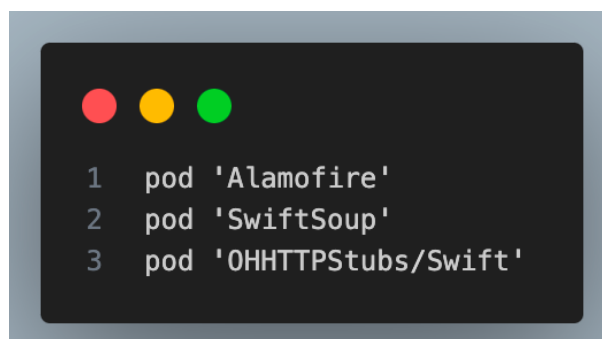
osre usvmir sddsdi rC eeHy  
ebhscne utosgcv fo o C a

4. This way you can view information in a target format:



## For Developers

1. Install required pods:



## 2. Setup and perform your url consumption:

```
1 class MainViewScreenViewModel {
2     let url = "https://www.compass.com/about/"
3
4     func fetchEvery10thCharacter(completion: @escaping (Result<(String, [Character]), FetchError>) -> Void) {}
5
6     func fetchWordCounts(completion: @escaping (Result<[String: Int], FetchError>) -> Void) {}
7 }
```

## 3. Use SwiftSoup to parse HTML data:

```
1 let doc = try SwiftSoup.parse(htmlString)
2 var every10thCharacter: [Character] = []
```

## 4. Store your consumption data:

```
1 let result = String(every10thCharacter)
2 UserDefaults.standard.set(result, forKey: "every10thCharacterKey")
```

## 5. Update your UI with your stored data:

```
1 func updateEveryTenTextView(_ text: String) {
2     DispatchQueue.main.async {
3         self.everyTenTextView.isHidden = false
4         self.everyTenTextView.text = text
5         self.runRequestsButton.isUserInteractionEnabled = true
6     }
7 }
```

## Conclusion

In this documentation, we've provided a comprehensive overview of the *Concurrent API Calls* within the **Compass App**, emphasizing our commitment to enhancing customer satisfaction through intuitive navigation and compelling features. By prioritizing the user experience and leveraging technologies such as Alamofire and SwiftSoup, we aim to deliver a seamless and enjoyable home seeking journey for our customers.

If you have any questions, encounter issues, or would like to provide feedback or suggestions for enhancements, please don't hesitate to reach us out at [info@compass.com](mailto:info@compass.com) or [dafrprof@gmail.com](mailto:dafrprof@gmail.com). Your input is invaluable to us as we strive to deliver the best possible user experience.