iOS Subscription App Documentation

Project Overview

This app is a **subscription-based iOS application** built with **UIKit and StoreKit 2** that allows users to unlock premium products through different plans (e.g., monthly, yearly). The app integrates offer codes, promotional offers, and handles subscription restoration seamlessly, providing users with a smooth and intuitive subscription experience, It simulates a complete StoreKit 2 subscription flow with local .storekit testing support.

Maria Tools & Technologies Used

Proposition Proposition Development Stack:

- Xcode For development and testing.
- Language: Swift
- **UI Framework**: UIKit (with Storyboards) and Core UI rendering and navigation logic.
- Subscription Framework: StoreKit 2
- StoreKit Configuration File (.storekit) For simulating purchases, offers, trials.
- Swift 6
- **Simulator (iOS 18+)**: For testing StoreKit behavior without a physical device.

UIKit Core Concepts Used:

- UITableView for plan selection (SelectPlanTableViewCell)
- UIViewController lifecycle and navigation (SubscriptionViewController)
- @IBAction, @IBOutlet, and storyboard-based UI linking
- Programmatic updates to table views for subscription states
- · Custom cell designs for displaying subscription plans

StoreKit 2 Core Concepts:

- Product and Transaction APIs for in-app purchases
- AppStore.presentOfferCodeRedeemSheet for promo code selection sheet
- .currentEntitlements sequence for checking active plans
- Promotional offer parsing via Product.subscription?.promotionalOffers



1. 🔓 Unlock Premium Access with Plans

After launching the app, users are presented with multiple subscription options (e.g., Monthly, Yearly) to unlock exclusive product content.

- The plans are fetched dynamically from a local .storekit file.
- Selecting a plan leads to a secure purchase flow.
- Once subscribed, premium items or features are unlocked.

2. Managing Subscriptions

Users can:

- View their current subscription status.
- Switch between plans (e.g., upgrade from monthly to yearly).
- Cancel or manage their subscription via native Manage Subscription options.
- Subscription status is updated in real-time using Transaction.currentEntitlements.

3. Nedeeming Offer Codes

Users can apply Offer Codes using the native StoreKit 2 sheet:

- A button triggers AppStore.presentOfferCodeRedeemSheet.
- If a valid code is entered, the discounted or free access is applied instantly.
- The redeemed offerID is logged and tied to the subscription.

4. 💰 Promotional Offers

Users may also benefit from introductory or promotional offers, such as:

- Free trial for 7 days
- Discounted monthly/yearly pricing

Promotional eligibility is checked during the product fetch, and UI is dynamically adjusted to show available offers.

5. Restore Purchases

For users reinstalling the app or switching devices:

- A Restore Purchase option allows recovering active subscriptions.
- It fetches transactions via Transaction.currentEntitlements and re-enables access to the associated plan.

6. 👉 Importance

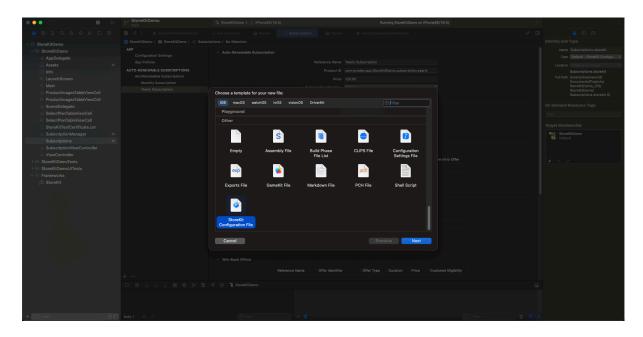
This app acts as a complete **subscription management demo** using **StoreKit 2** and allows testing:

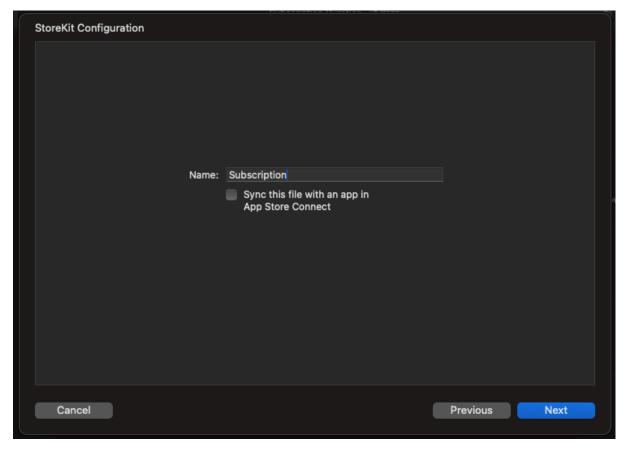
- Auto-renewable subscriptions (Monthly & Yearly)
- Introductory offers and free trials
- Redeeming offer/promo codes locally
- Restoring purchases
- X Handling errors (expired, revoked, or failed)

It is a **great testing tool** for any developer working on monetization through in-app subscriptions, and provides a **realistic simulation** of how offers behave in production—all without needing App Store Connect setup.

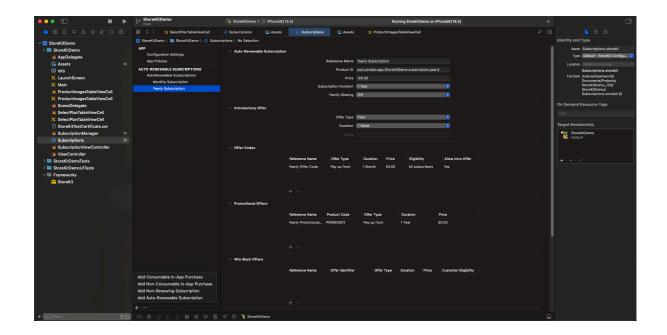
7. **§** Future Scope

- Integrate with real App Store Connect subscriptions & backend validation
- Add analytics for offer code redemption behavior
- Add localization and multi-currency support
- We use AI for recommending plans or retry flows
- Connect with Firebase/CloudKit for syncing purchase states across devices
- @ Improve UI with SwiftUI hybrid architecture

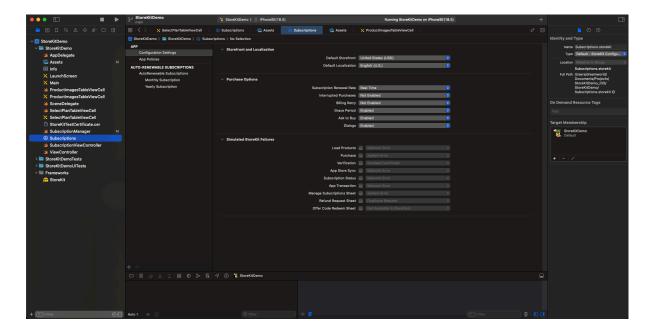




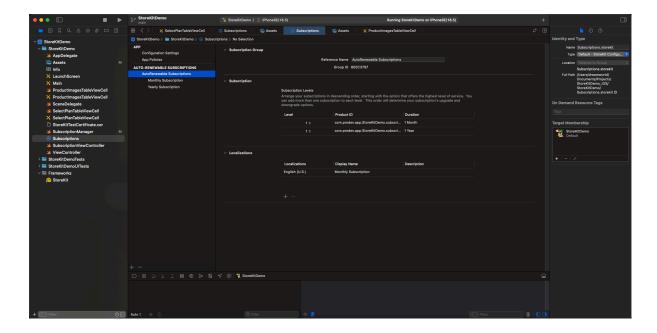
- To create a .storekit file, go to the left panel, right-click, and choose New File from the template options. In the template window (as shown in the screenshot), select StoreKit Configuration File, then tap Next.
- Give your file a suitable name based on your configuration. If you want to sync this
 .storekit file with App Store Connect, you can check the corresponding option.
 Finally, click Next to add the file to your project directory.



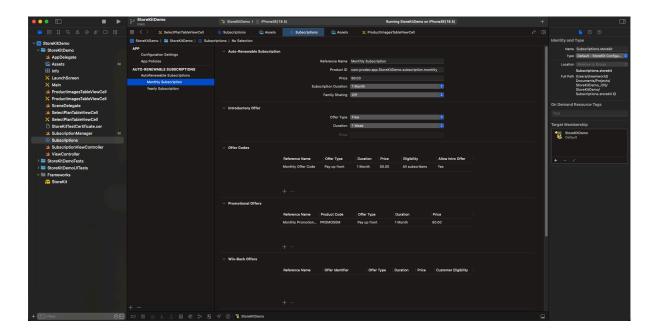
You can see in this screenshot you can create any In-app purchase plan from this
plus icon tap and after you successfully created any plan from the .storekit file it will
look like this as i shown in this screenshot.



You can configure In-app purchases localization, set any purchase options
according your need and also you can test failure cases from the .storekit file check
out in this screenshot.

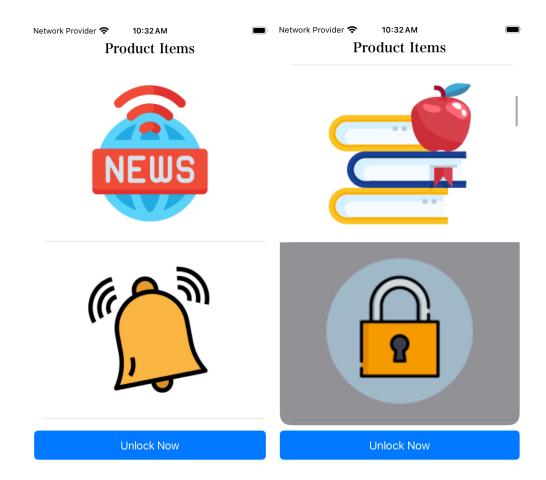


 Currently we have created one subscription group with Auto-Renewable Monthly and Yearly Subscription Plans also you can add and manage localization from here see in this screenshot.

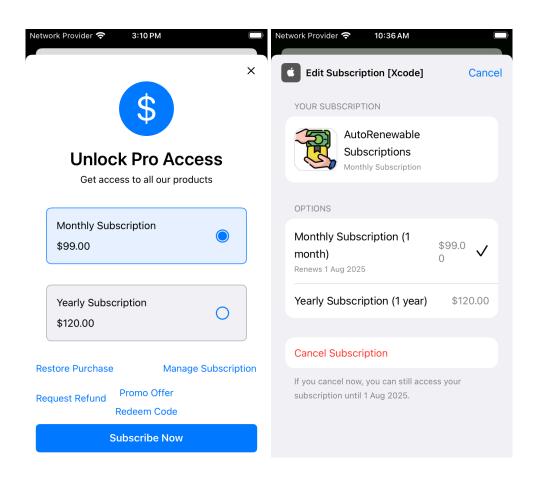


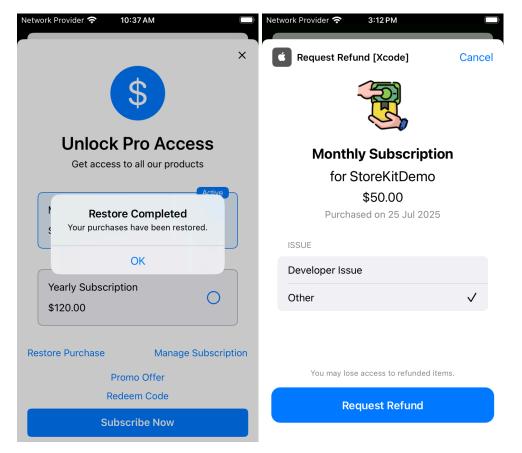
 Now finally check this screenshot after you successfully Created Monthly/Yearly subscription plans it will look like this here we configured Reference-Name, Product ID, Price and Duration and also we added Introductory Offer, Offer codes and Promotional Offers.

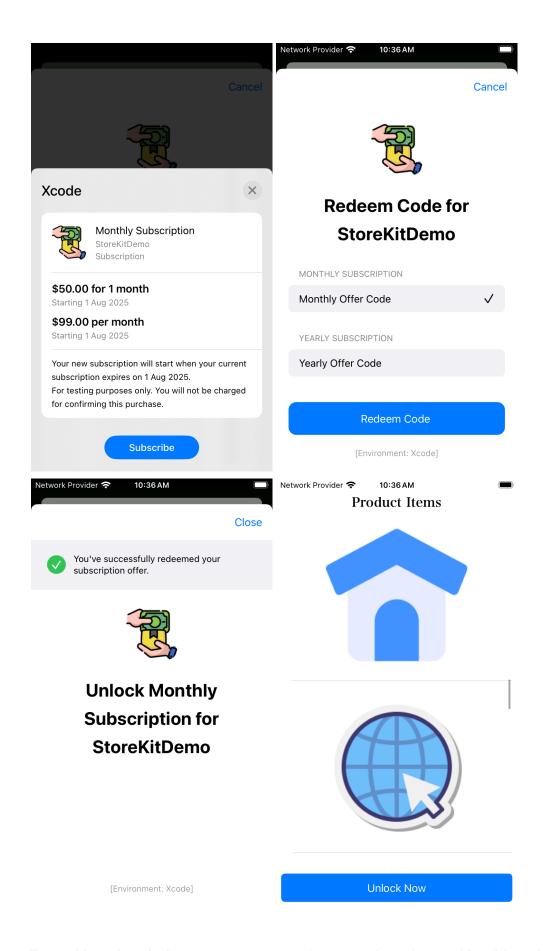
9. → Usage of this subscription plans in App.



• This is the main screen for our product items. The first three products are available for free, while the rest are locked. To unlock all products, you'll need to purchase a subscription plan. Simply tap the "Unlock Now" button to view and choose a subscription plan.

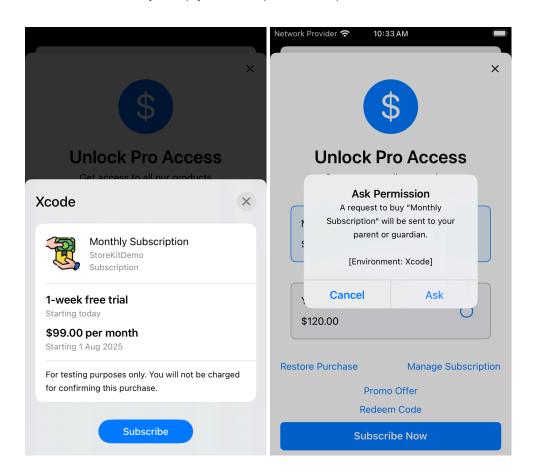




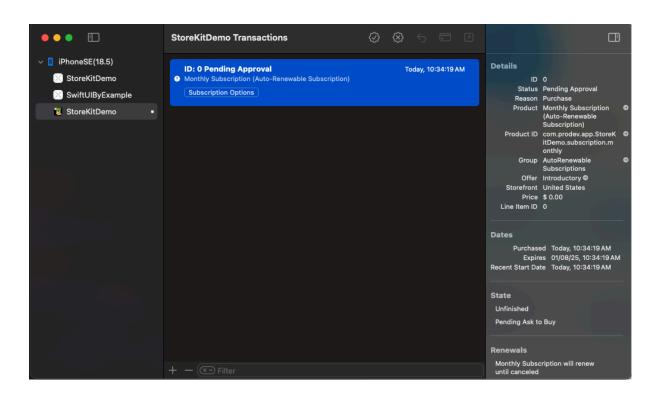


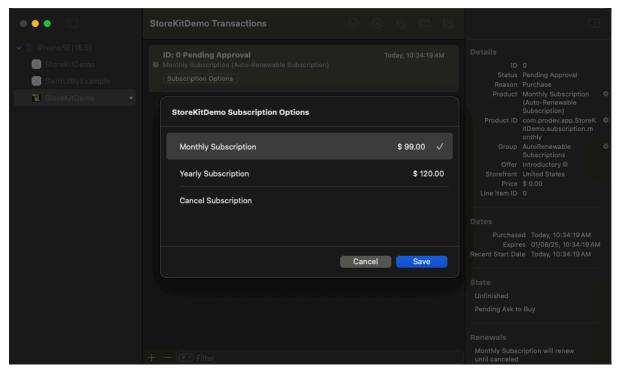
From this subscription screen, you can choose and purchase a Monthly or Yearly
plan. Once your subscription is active, you can manage it anytime by tapping the
Manage Subscription button.

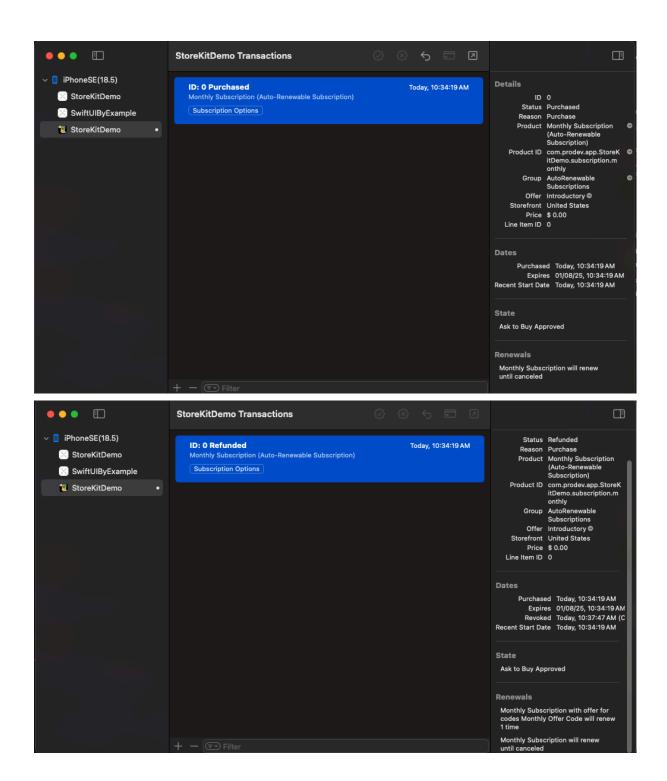
- You can also Redeem offer codes using the Redeem Code button, and if promotional offers are available, access them via the Promo Offer button.
- You can also Request Refund using the Request Refund button.
- To subscribe directly, simply select a plan and tap the Subscribe Now button.

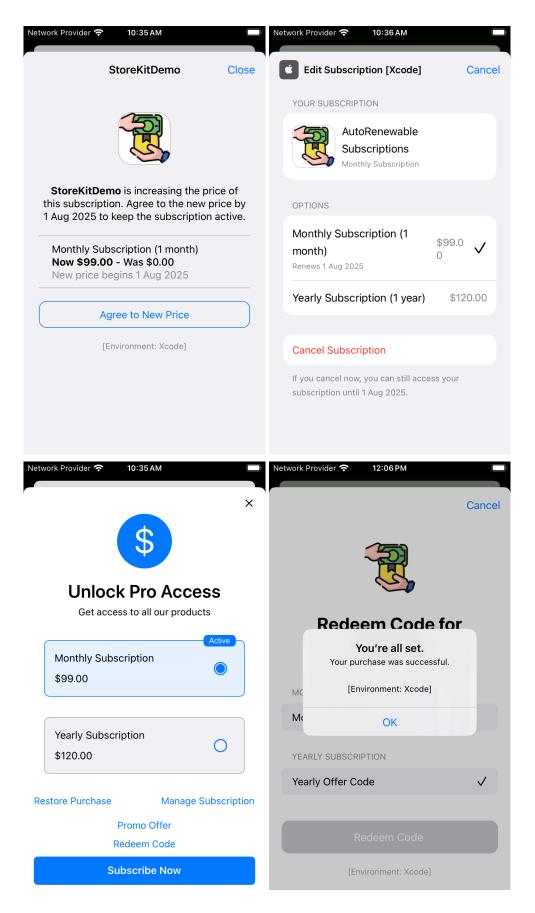


 When you tap the Subscribe Now button, the subscription sheet will appear. After tapping Subscribe, if parental permission is required for the purchase, an Ask Permission prompt will be shown. Otherwise, the subscription will be processed directly.





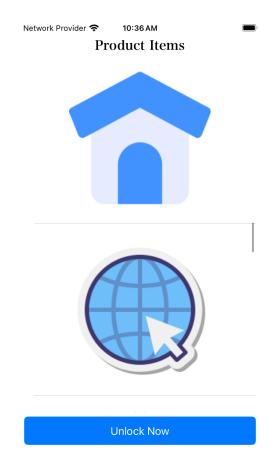




If a permission popup appears, you'll need to grant permission from the StoreKit
Transaction panel from the Xcode. From this panel, you can approve or cancel
permission requests, manage subscriptions, view transaction history, check
purchase and expiration dates, and see any applied offers.

Additionally, you can increase subscription prices, which will prompt users with a
price increase confirmation sheet in the app. You can also refund, cancel, or
upgrade plans, along with many other actions — all from this single panel.

10. 🔓 Unlocked Products.



 Congratulations! After subscribing, you now have full access to all products.