Presented by Max Stottrop

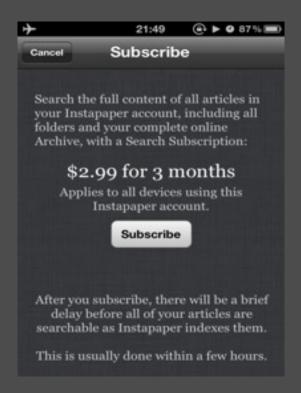
IN-APP PURCHASE

What I will cover today

- Introduction
- Proccess of implementing In-App Purchase
- StoreKit Framework
- Business & Tips

With In-App Purchase you can...

- ... embed a store directly to your application
- It uses the Storekit Framework.

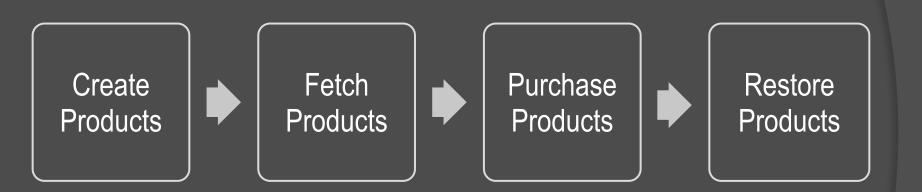




In-App Purchase Types

- Non-Consumable
- Consumable
- Auto-renewable subscription
- Free subscription
- Non-renewable subscription

Walkthrough



Implementing In-App Purchase



Products

- Supported types:
 - Content
 - Functionality
 - Services
 - Subscriptions
- Each product has a unique productIdentifier.
- No real-world goods!

iTunes Connect Setup

- Setup your Products
- Create a Test User
 - One per country
- Sign out of your Store Settings
 - Don't enter your Test User's Ids in the Settings

Store Kit Framework

Validate In-App Purchase Access
Retrieving product information
Show the Store Interface
Make the purchase
Process Transaction
Make the feature avaible
Finish Transaction
Verify the receipts
Restore previous Purchases

Validate In-App Purchase Acces

- Validate In-App Purchase Acces
- Payment Queue class method canMakePurchase

Determine sellable products

- Load Product IDs
- Use SKProductsRequest to determine the sellable subset of the IDs

Show Store

UITableView Power?

Request payment

- SKPayment Class
 - Create payment object
 - Add it to the queue
 - Observe the payment queue

SKPayment *payRequest = [SKPayment paymentWithObject:selected];

[[SKPaymentQueue defaultQueue] addPayment:payRequest];

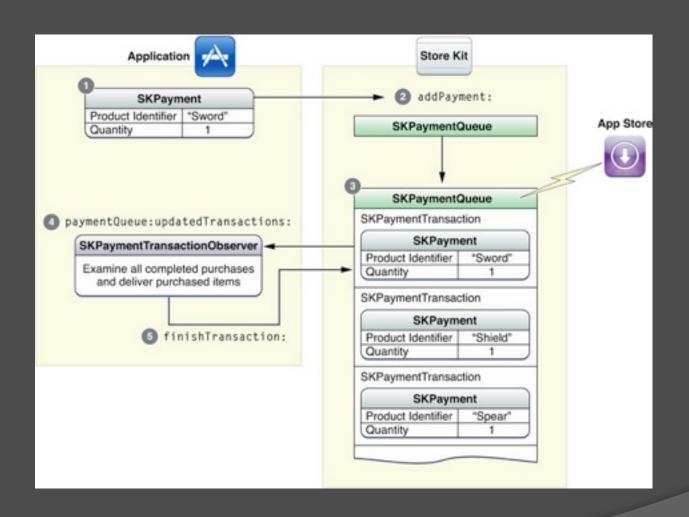
- (void)addTransactionObserver:(id <SKPaymentTransactionObserver>) observer

Complete Transaction

- updatedTransaction method
 - SKPaymentTransactionStatePurchased = Succes
 - SKPaymentTransactionStateRestored = Succes
- finishTransaction method

```
-(void)paymentQueue:(SKPaymentQueue *)queue updatedTransactions:(NSArray *)
transactions {
   if (atransaction.transactionState == SKPaymentTransactionStatePurchased ) {
        //Unlock content
        [queue finishTransaction:aTransaction]; }
}
```

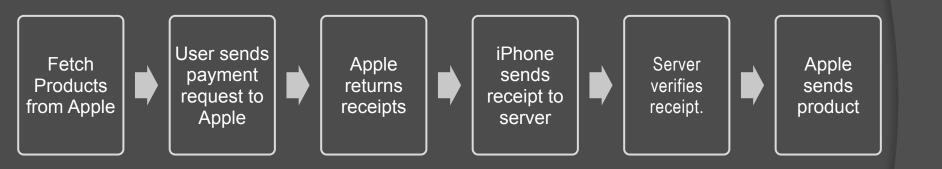
Collecting Payments



Feature Delivery

- Self contained
- Downloadable

Downloadable Content



In-App Content

Embed content in your application.



User purchases content and Apple verifies payment.



Application unlocks functionality.

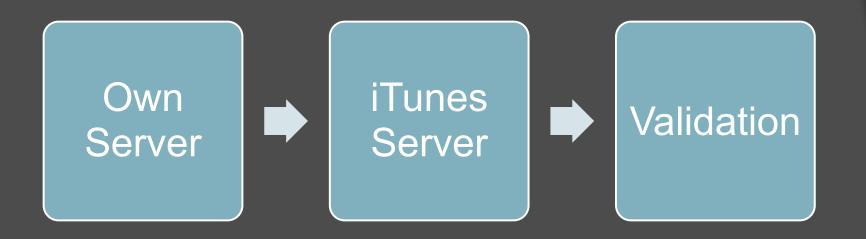
Remember Product Purchase

- Use NSUserDefaults class and preference file
 - unsecure, easy to "hack".
 - saves to Application Support directory
- Use Keychain API
 - Secure
 - Saved to app Keychain Slice

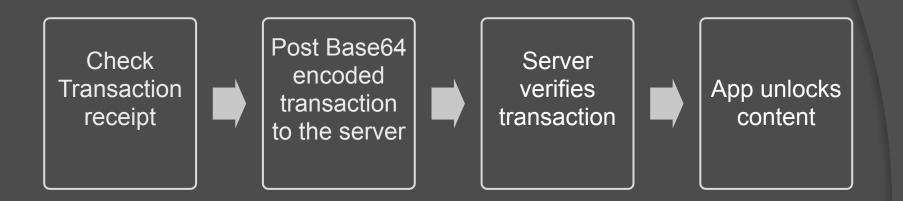
[[NSUserDefaults standartUserDefaults] setObject:bought forKey:@"boughtItems"];

SecItemAdd ((CFDictionaryRef) boughtItems, NULL);

Verify Product Purchase



Verify Product Purchase



Verify Product Purchase

- Send JSON object with encoded transaction receipt
 - {"receipt data" : "7b4187e54587ert27e2"}
- Post to iTunes verification service
 - http://buy.itunes.apple.com/verifyReceipt
 - http://sandbox.itunes.apple.com/verifyReceipt
- Get a JSON object
 - {"status": 0, "receipt": { ... } }0 == Succes,
 - everything else == BAD PIRATES AT WORK

Restore Previous Purchases

- Free Subscription, Auto-Renewing Subscription, Non-Consumable items
- [[SKPaymentQueue defaultQueue] restoreCompletedTransactions]
- Subscription & Consumable need own mechanism

Customer signs in



Proccess
Succesfull
Payment



"Already purchased" Dialog

Business Model

- Which Model to choose?
- What to content sell?
 - Game
 - Everything else

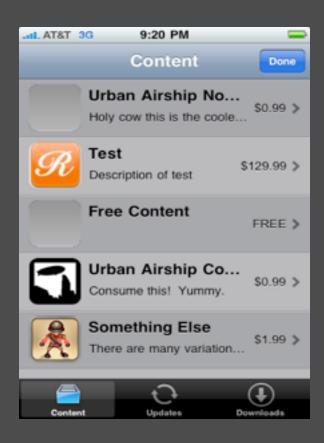
Extra Levels
Social content
In-game Currency
Optional Content
Money for time/Time

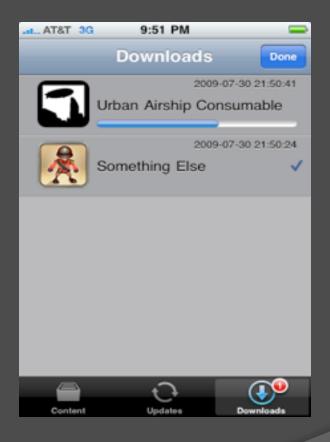
Tips

- Product Ids are unique across apps!
- Built Store with sellable products only!
- Use MBBase64 category from the CocoaDev website
- Auto-renewing Subscription only for apps with dynamic content.
- Only show the button when Internet Connection is avaible.
- To test In-App Purchase you must add the Binary Reject it!
- After you added your Products, wait a bit!
- MKStoreKit: Open Source helper.

ONE LAST THING

StoreFront





StoreFront

- Works via JSON to display Content, Downloads, Updates.
- Allows to sell free content.
- No additional server costs/bandwidth.
- Restoring Auto-renewable Subscriptions YAY

Q & A

THANKS!

Links

- Receipt validation: http://bit.ly/we2Pt0 & http://bit.ly/AB09Sv
- Apple: http://bit.ly/xy7aGV, http://bit.
- MKStoreKit: https://github.com/MugunthKumar/MKStoreKit
- StoreFront: http://urbanairship.com/docs/inapp_client.html
- Dr. Touch's Purchase Button: http://bit.ly/zxGjcY