



2017 Aptoide Summer Internship

Weekly Report 5 [August 7 – August 11]

Project: Bitcoin Project

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Completed Tasks during Week 5

- Little research on the possibility of Ethereum tokens for ICO project (It's a possibility, easier to deploy, Aptoide would be able to choose the initial supply).
- Comparing 2 implementation of the Coinbase SDK (original SDK example vs Coinbase-Bitmonet example).
- Implementing Bitcoin payment, through Coinbase SDK.
 - Both were working in a very different way to what Aptoide payment structure was done (SDK was done to work on Activities with Async tasks, while Aptoide was structured more with fragments), so I decided to adapt the SDK code to match the fragment structure of Aptoide.
 - OAuth done.
 - Payment implementation for proof of concept working without sending any coins.
 - Explanation: Since I don't have any Bitcoins to test if payments with Bitcoins transaction work, I decided to analyze what happens when the method to send coins is invoked. To call this method you need to have the token working, so I decided to call a method that just returns the email of the person logged in to prove that it's working. Then the method itself creates a Coinbase Transaction object which among other attributes has an ID and an enumerator with the status of the transaction, this status goes from Pending (when created) to Complete (when the coins have been transferred), so what I did was, after the authorization, it displays a dialog where it shows the coins to be sent (to be done on Monday), then when the user presses OK, it runs the getEmail Method to simulate the sendCoins Method, then it creates a class transaction with the Pending status, that class then sleeps for x seconds, after that it changes the transaction status to Complete, and the fragment that was waiting for the Complete status using filter, proceeds and completes the transaction.

What I'll be doing next week

- Confirmation of coins to send dialog, refactoring code and doing a few more tests.
- Start creating the website for the ICO project
- Studying the PHP version of the Coinbase API/SDK to implement on the website.