**Project Proposal**

**NAME, PLACE, AND DATE**

* EcoPay Wallet
* Mayaguez
* 06 / 01 / 2020

**PARTNERS**

* Clients
  + Commercial businesses
  + Retail Software Providers
* Developers
  + Team 1 – Frontend
  + Team 2 – Backend
  + Team 3 – Database

**CURRENT SITUATION**

In our daily lives, an average person can have multiple purchases throughout a day, and it becomes tedious handling and saving all those receipts. People often lose their receipts and so this creates a problem since receipts are needed for multiple reasons:

* The buyer needs to return an item.
* An employee needs to submit an expense report to the company.
* To split a purchase with other people.
* There is also no logging of receipts meaning that if you at some point lose your physical receipt then you lose your right to any warranty or claim.
* The buyer needs to find a past transaction yet does not recall the payment method used.
* A receipt printed in paper fades in time and becomes void if it’s not legible.
* Buyers have a need for a simpler way to manage all their payment methods in one virtual wallet.

**NEEDS AND IDEAS**

* Needs
  + Buyers need a better more efficient way to handle receipts.
  + There is a need for all payment methods to be available in the same system.
* Ideas
  + The system must have ease of use since it is a consumer product.
  + The same system must log all receipts.
  + The user is prompted to add all their cards and payment methods.

**CONCEPTS AND FACILITIES**

* Entities
  + Users
  + Receipts
  + Credit cards
  + Users credentials
  + Payment Methods
  + Business
  + Provider
* Functions:
  + The user interacts with the Mobile App.
  + The user fills in his basic credentials for his account.
* Events:
  + Payment Completed:  Event that marks the end of the payment process.
  + Receipt Done: Event that marks the end of the User receiving his/her receipt.
* Behaviors:
  + The user adds a payment method to his/her account.
* Concept Information:
  + More specifically the following solution concepts have been settled upon, namely. by being easy to use, the product is more accessible. having a database of all the users will be beneficial as the user/client will have quick access to them thus providing better receipt management. (iii). with all the payment methods added the user will be able to easily manage them and use them for transactions.

**SCOPE AND SPAN**

* Scope: The problem is organizing and saving the receipts for every purchase you make in your life.
* Span: Everyday millions of purchases are completed and each one needs to return a receipt. Most of these receipts go missing or the ink fades and then the customer is not able to save it. Therefore, organizing and saving these receipts without much effort for the customer's lifetime is nearly impossible.

**ASSUMPTIONS AND DEPENDENCIES**

For the development of the project, it is assumed:

* Developers are available and have knowledge about the project domain.
* Developers have the right tools to work on the project.
* There it is a budget to realize the project.
* In the final phase, the project should have a minor functionality.

The dependencies for the project are:

* An encryption program to secure the user’s information.
* A compatible device to do the payment process.
* A compatible device to receive the receipts.
* A compatible device with a connection to the Internet.

**IMPLICIT/DERIVATIVE GOALS**

For the development of a domain description/proposal of the Smart Wallet service we foresee the following implicit or derivative goals:

* Improve the customer’s management of their receipts.
* Deployment of Service should reduce deforestation in the long run.
* Facilitate the customer`s money management related to purchases.
* Deployment of Service should reduce the cost of paper/ink for establishments/businesses.
* Speed up the Client`s Checkout Process for businesses
* Deployment of Service should provide safety and security for customer`s credit/debit card payment options.

**SYNOPSIS**

The project is to develop and research a domain model for a receipt management system such as scope and span indicated above.

Thus, the domain model is expected to cover such phenomena as:

* The credit/debit card: its information, in order to provide a way to charge the customer for their orders.
* The receipt: the information about the order, including the store.

**STANDARDS COMPLIANCE**

* NFC - ISO 13157

**CONTRACT**

A contract should be held between the following parties:

* Developing Company and the end-user
* Developing Company and Retail Stores
* Developing Company and Retail Software Providers