

User Experience

How Closed-Loop Payments UX stacks up

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WHY UX MATTERS

Despite the differences between in-store and in-app payments, the steps to improve them are the same. One is to remove as much friction as possible from the payments process to eliminate consumer frustration and prevent abandonment. Another is to enhance the 'buying experience' to make payments more than just, well, paying. -

Andre Stoorvogel, CVS Head of Marketing, 2016

WHY CLOSED-LOOP PAYMENTS MATTERS



Rewards are the best way to capture customers' loyalty to business.



METHODOLOGY

- Main Focus: in-store closed-loop solutions.
- All the solutions evaluated use barcode to enable mobile payments at the POS
- Two types of transactions are used:
 - Display barcode on the smartphone: i.e. Starbucks App
 - Smartphone reads barcode: i.e. Walmart Pay
- Alternative solutions were evaluated for comparison: NFC based

-Metrics:

Quantitative:

Operational Inertia: Number of Steps to perform a successful payment transaction

Qualitative:

Studied general aspects that have a direct impact on the usability of the mobile payment app. Some aspects studied were:

Accuracy

Time to find/spent on the task

- Findability
- Difficulty



METHODOLOGY (cont'd)



- During the analysis 7* payment solutions were evaluated
- 2 different methodologies were analyzed of one solution (Starbucks App and Wallet).
- Apple Pay and Walgreens Solution were used as a reference (not a closed loop solution)
- iOS experienced and inexperienced users were polled.

* The solutions selected is a general representation of all the existing solutions



Results

Quantitative



STARBUCKS APP





* Finding the App may take several steps (Swipe left or right to find the Starbucks app). For simplicity it is counted as one step.



STARBUCKS APP



Paying using the Starbucks app scored 6 operational inertia steps.

6 Steps*

UX Friction for each individual step



App Highlights:

- Pioneer on closed-loop mobile payment
- Uses 2 methods (Launch payment from App or Apple Wallet)
- Supports in-app payment

* Assuming finding the Starbucks app takes 1 step and the user is familiar with the location of the app.



STARBUCKS







* Finding the Starbucks card may take several steps For simplicity it is counted as one step.



STARBUCKS PASS



Paying using the Starbucks pass scored 4 operational inertia steps.

UX Friction for each individual step

Step 1: This step can be tricky and most users are not aware.

Step 2: Familiar step for the user

Step 3: Familiar step of the user*

Step 4: Level of familiarity depends on the user and environment

4 Steps*

App Highlights:

- Pioneer on closed-loop mobile payment
- Uses 2 methods (Launch payment from App or Apple Wallet)
- Supports in-app payment

* Assuming finding the Starbucks pass takes 1 step and the user is familiar with the location.



WALMART PAY



Steps

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WALMART PAY



Paying using the Walmart Pay scored 6 operational inertia steps.

UX Friction for each individual step

6 Steps*

Step 2: Familiar step for the user* Step 3: Familiar step of the user Step 4: Familiar step of the user

Step 5: Familiar step of the user

Step 1: Very intuitive-familiar step

Step 6: Level of familiarity depends on the user and environment

App Highlights:

- Uses the smartphone to read the Barcode

* Assuming finding the Walmart app takes 1 step and the user is familiar with the location of the app.

YOYO WALLET





*Assuming finding the YOYO app takes 1 step **User uses the default credit card



YOYO WALLET



Paying using the YOYO Wallet scored 6* operational inertia steps.

6 Steps

UX Friction for each individual step



App Highlights:

- Allows the use on multiple stores and multiple credit cards

* Assuming finding the YOYO app takes 1 step and the user uses the default credit card



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Lightly put the finger on the Home button to authorize Touch ID



Hold the phone near the reader to exchange Balance Rewards credentials



Lightly put the finger again on the Home button to authorize Touch ID



Hold the phone near the reader to pay





WALGREENS BALANCE REWARDS

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Paying using the Walgreens Balance Rewards scored 4 operational inertia steps.

UX Friction for each individual step

4 Steps

Step 1: Very intuitive-familiar step

Step 2: Very intuitive-familiar step

Step 3: Very intuitive-familiar step

Step 4: Very intuitive-familiar step

App Highlights:

- Not a closed-loop
- Uses Apple Wallet for rewards pass



CVS PAY







WALGREENS BALANCE REWARDS



Paying using the CVS Pay scored 4 operational inertia steps.

4 Steps

UX Friction for each individual step

Step 1: Very intuitive-familiar step Step 2: Familiar step for the user* Step 3: Familiar step of the user Step 4: Familiar step of the user Step 5: Familiar step of the user Step 5: Familiar step of the user Step 6: Level of familiarity depends on the user and environment

App Highlights:

- Allows user to selects different credit cards

APPLE PAY

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Lightly put the finger on the Home button to authorize Touch ID



Hold the phone near the reader to pay





APPLE PAY



Paying using the Apple Pay scored 2 operational inertia steps.	UX Friction for each individual step
	Step 1: Very intuitive-familiar step
	Step 2: Very intuitive-familiar step

App Highlights:

- Apple Pay does not belong to this category since it does not interchange rewards information. It is used as a reference since it is the simplest method of payment.

RETAIL NFC ENABLED PASS

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01

Lightly put the finger on the Home button to authorize Touch ID



Hold the phone near the reader to pay. DONE 02



NFC ENABLED PASS



Paying using the proposed methodology scored 2 operational inertia steps*.

UX Friction for each individual step

Step 1: Very intuitive-familiar step

Step 2: Very intuitive-familiar step

2 Steps

App Highlights:

- Ideal scenario.
- With only 2 operational inertia steps (and low friction each step) "payment and loyalty" transaction is achieved.



OVERALL OPERATIONAL INERTIA COMPARISON



6 Steps
STARBUCKS APP
4 Steps
STARBUCKS WALLET
6 Steps
WALMART PAY
6 Steps
YOYO WALLET
4 Steps
WALGREENS BALANCE REVVARDS
6 Steps
CVS PAY
2 Steps
É PAY
2 Steps
NFC ENABLED PASSES



Results

Qualitative



QUALITATIVE METRIC METHODOLOGY



For the qualitative analysis a combined results of the following aspects were used:

- Accuracy
- Time to find/spent on the task
- Findability
- Difficulty

All the solutions evaluated use 8 common steps. Each step was evaluated individually and a combined overall UX friction index is presented.

Overall UX Friction Index represents a combined results of all the different benchmarks (Accuracy, Time, Findability and Difficulty). A 1-5 (Lower is Better) index was created for comparison.



OVERALL UX FRICTION INDEX PER INDIVIDUAL STEP

1-UNLOCK IPHONE	2-FIND THE APP	3-OPEN APP	
Press "Home" to Unlock iPhone	Swipe the screen until the app is found *	Tap on the app to open	4-SELECT OPTION
			App.
Very familiar step to the user. Performed daily during iPhone regular use.	Very familiar to the user, although, depending on the number of apps this step may require several swipes and digging through folders	Very familiar to the user	This step could be confusing at times, since the app may have multiple options to select. It all depends how many features does the screen supports and how all
Overall Index 2	⊖ Overall Index 3	Overall Index 1	and clear they are designed. → Overall Index 3

* There are other methods to find apps, not considered on this analysis (Methods not considered: Siri or spotlight)

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OVERALL UX FRICTION INDEX PER INDIVIDUAL STEP

5-LUNCH WALLET	6-FIND PASS	7-BARCODE	
Double tap on Home button to unlock the device and launch wallet.	Swipe up until the right pass is found	Hold the phone with the Bar	4-CONTACTLESS Hold the phone near the
Doble tapping the home button can involuntary unlock the device. This can be annoying even for experienced users.	This may require several swipes	code reader or scan the bar barcode on the register	Contactless reader.
	based on the number of passes the user carries.	This step may be tricky: The user has to align the device, the scanner may to be ready or the screen backlight may go off	Very natural movement for the user. Although the user needs to
Overall Rating 4	⊖ Overall Rating 3	Not a familiar step.	May not be trivial for unexperienced users.
		↔ Overall Rating 4	\bigcirc Overall Rating 2

* There are other methods to find apps, not considered on this analysis (Methods not considered: Siri or spotlight)

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COGNITIVE LOAD

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Lower is Better



ThankYou!



4 STEPS TO PAY USING BARCODE (FROM APP)





4 STEPS TO PAY USING BARCODE (FROM WALLET)

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Walmart 📩

4 STEPS TO PAY USING BARCODE

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https://www.youtube.com/watch?v=cwsWpdDrwpI

Open, Scan, Done – It's That Easy Checkout using Walmart Pay happens in three easy steps:



Scan: At any time during checkout, simply scan the code displayed at the register. Walmart Pay is now connected.

Done: Associate scans and bags the items... and it's done. An eReceipt will be sent to the app and can be viewed at any time.

2 STEPS TO PAY USING NFC





Pay and exchange loyalty credentials in just 2 steps.

