Payment link type in HTML





September 2023

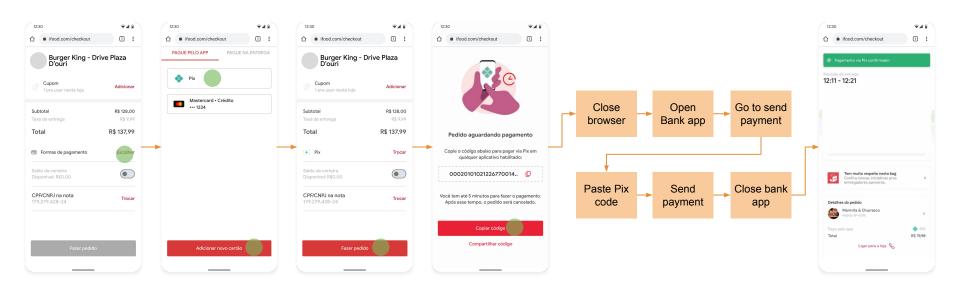
Push payments

- Payment is initiated by the payer (consumer)
- Current UX
 - Desktop
 - Scan a QR and complete payment with a supported payment Android/iOS app
 - Login to a payment website and complete payment
 - Mobile
 - Login to a payment website and complete payment
 - Launch a payment Android/iOS app and complete payment
 - Copy payment code and paste into a bank app to complete payment
- Merchant specifies destination & amount → Wait for payment to happen
 - Poll or web-hooks.

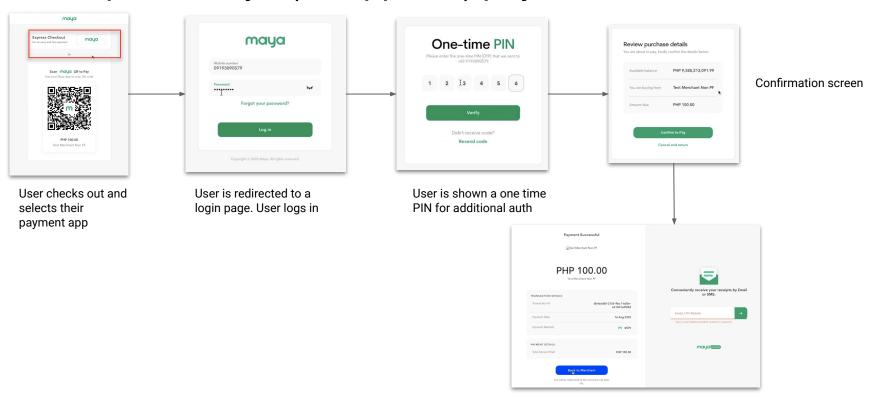
Example 1: Brazil PIX

- Payment code generated by the merchant/PSP
 - Based on <u>EMVCo spec</u> for Merchant-presented-QR
 - TLV (type-length-value) format
- User Journey
 - Desktop
 - A QR is displayed and the user scans it with their bank app
 - Mobile
 - A code is displayed and the user copies the code into their bank app
- Pain points
 - Multiple manual steps involved
 - QR code scanning issues

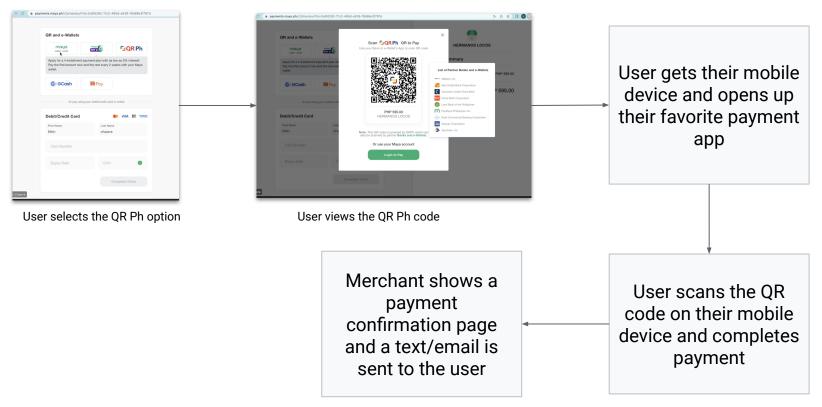
PIX user journey



Example 2: Maya (Philippines) payment via web redirect



Example 3: QR Ph on desktop



QR PH = Philippines Gov. standard based on EMVCo.

Can the browser assist the user for a better experience?

- A better solution requires the merchant to communicate with the browser
- Can Android intents help?
 - Only on Android (not multi-device journey -- does not offer anything on desktop)
- Can Payment Request API help?
 - Requires active integration by the merchant
 - Explicitly trigger the API
 - Handle further communication
 - UX implications for merchant's checkout page
- A lightweight and passive method can be utilized instead

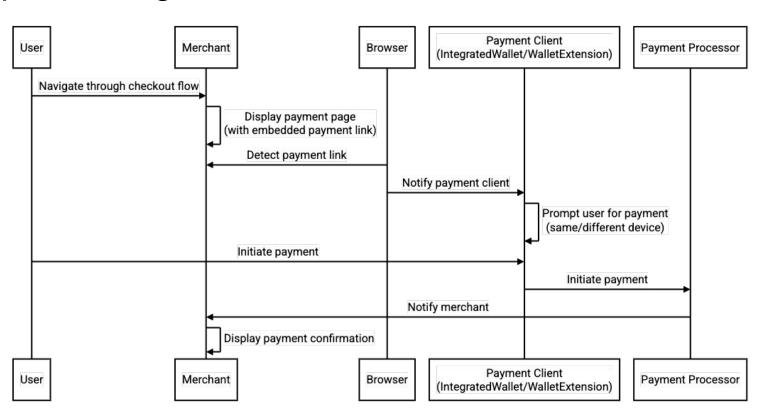
Payment link

- Merchant/PSP can embed a "payment" link in HTML
- The link can capture the content of the QR/code-to-copy
- Example
- Browser can detect the "payment" link and assist the user
- Advantages of the approach
 - Declarative
 - Makes it easy to add
 - Optional feature for merchants and PSPs, so least intrusive for existing flows
 - Not mandatory for merchants to use this to make payments happen

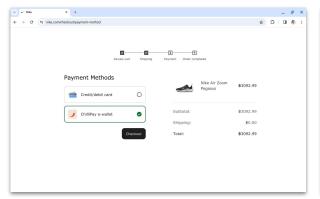
User journey

- Merchant/PSP embeds a "payment" link in the payment page
- Browser detects the "payment" link
- Browser notifies the payment client chosen by user
 - Integrated wallets
 - Browser wallet extensions
- The payment client takes over the payment flow
- User completes payment on the payment client
- Merchant/PSP shows a payment confirmation page

Sequence diagram



Improved user journey 1 - Payment QR on desktop







User checks out on the merchant website and picks their e-wallet of choice

An e-wallet specific QR or interoperable QR is visible

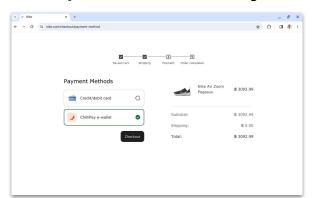
Chrome triggers a payment flow once the QR is detected via the paylink



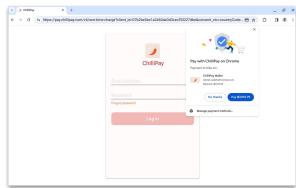


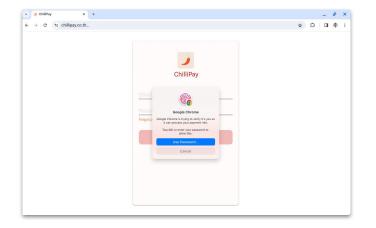
Auth and transaction are completed

Improved user journey 2 - Web redirect on desktop



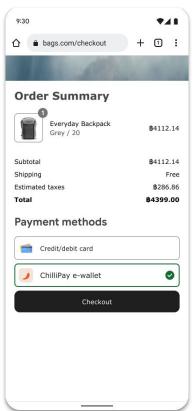




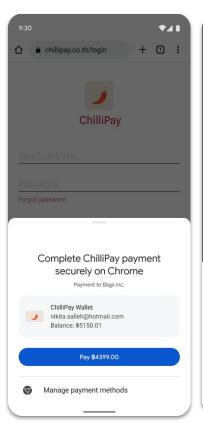


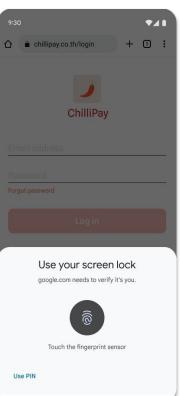


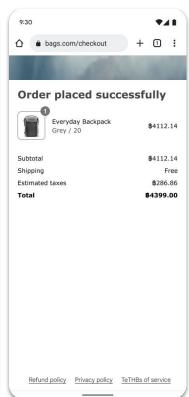
Improved user journey 3 - Web redirect on mobile











Payment link examples (for illustrative purposes)

- UPI
 - < link rel="payment" href="upi://pay?pa=merchant3@icici&pn=test&am=123&cu=INR">
- Bitcoin
 - < link rel="payment" href="bitcoin:175tWpb8K1S7NmH4Zx6rewF9WQrcZv245W?amount=20.3&label=Walmart">
- PayPal
 - link rel="payment"
 href="https://paypal.com?payee-address=175tWpb8K1S7NmH4Zx6rewF9WQrcZv245W¤cy=USD&amount=20.3&payee-name=Walmart">
- Brazil PIX
 - href="payment"
 href="pix://pay?code=00020126580014br.gov.bcb.pix0136123e4567-e12b-12d1-a456-4266554400005204000053039865802BR5913John Doe6008BRASILIA62070503***63041D3D">

References

- Explainer:
 - https://github.com/aneeshali/paymentlink/blob/main/docs/explainer.md
- Chrome feature:
 - https://chromestatus.com/feature/5198846820352000