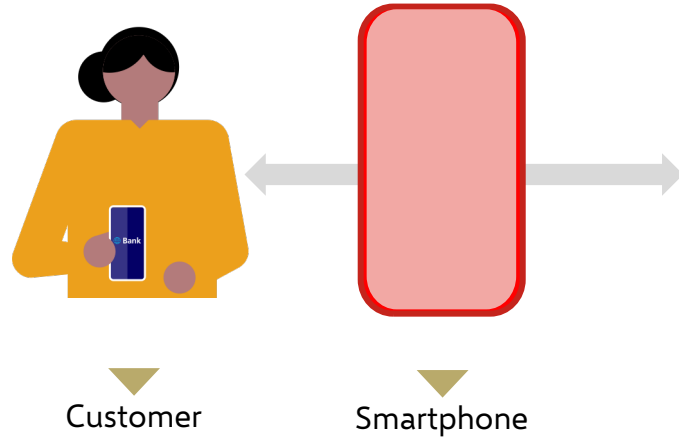# SPC and Native Apps

—

W3C TPAC 2023 - WPSIG

Nakjo Shishkov, Seville

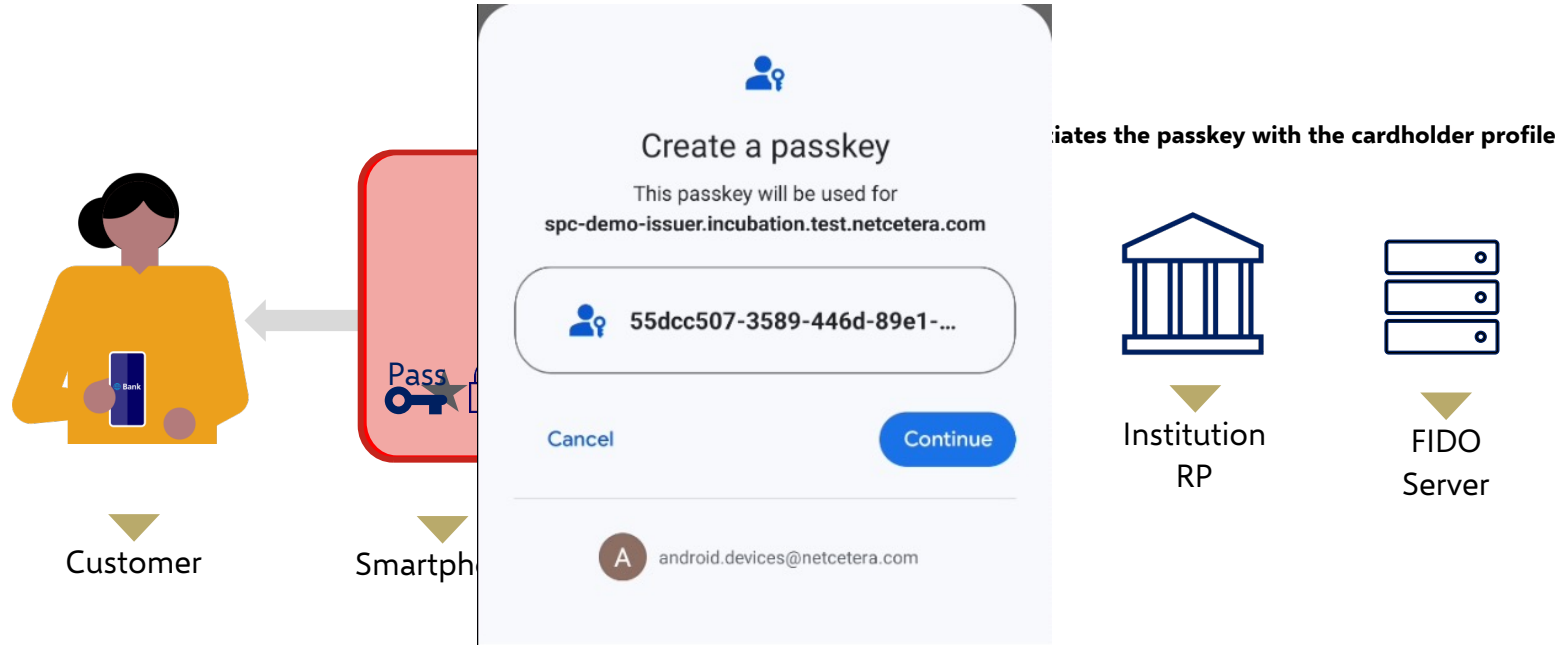2023-09-11

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Refresher - Passkey Enrollment

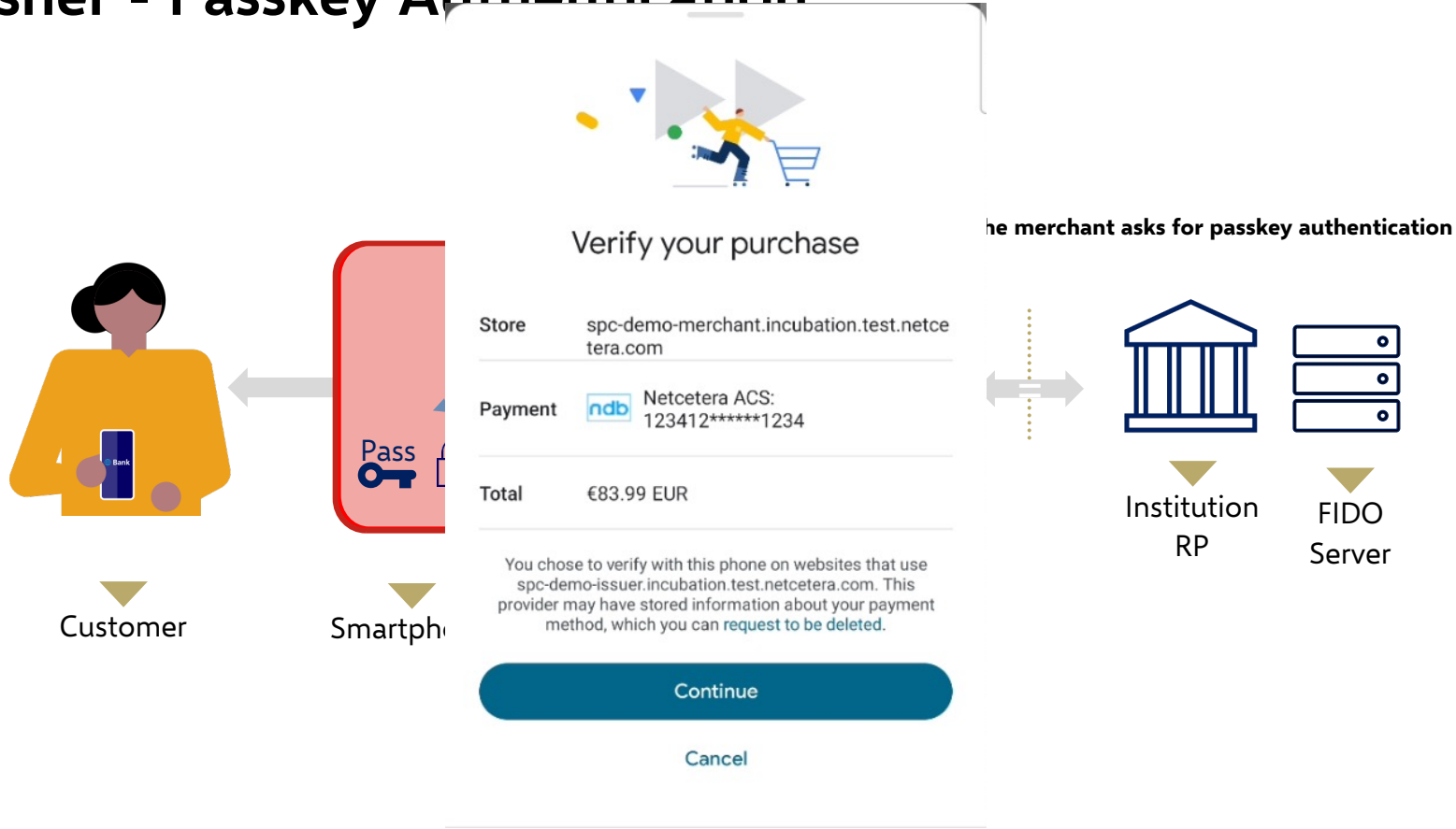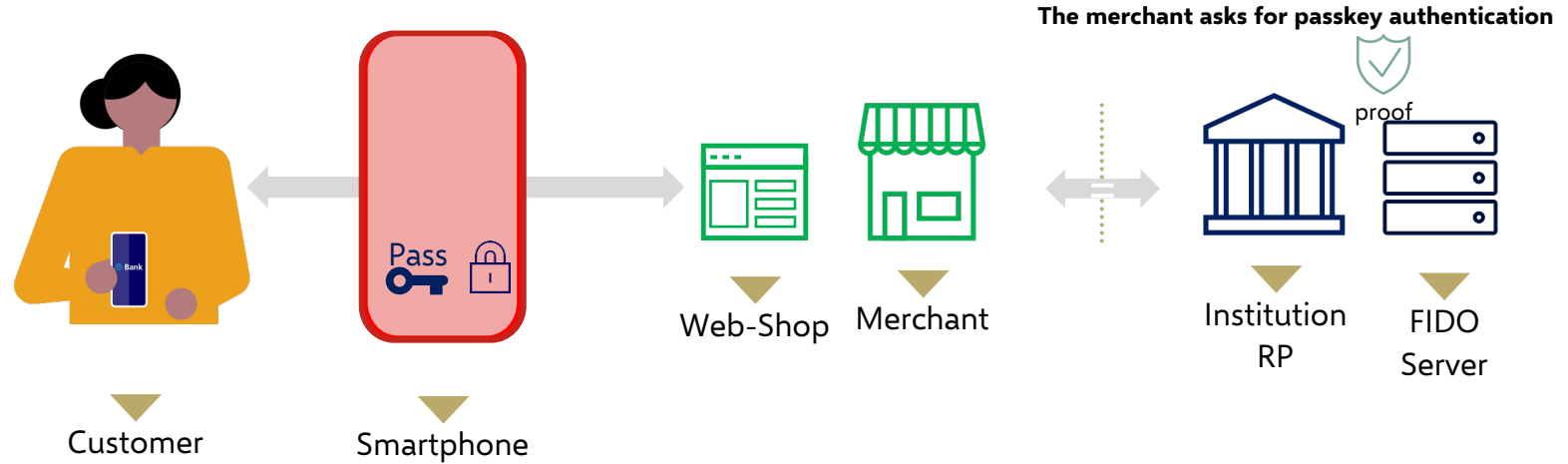The issuer associates the passkey with the cardholder profile

Customer

Smartphone

Enrollment Webiste

Institution RP

FIDO Server

Refresher - Passkey Enrollment

Customer

Smartph...

Pass...

...iates the passkey with the cardholder profile

Institution RP

FIDO Server

Create a passkey

This passkey will be used for

spc-demo-issuer.incubation.test.netcetera.com

55dcc507-3589-446d-89e1-...

Cancel

Continue

A   android.devices@netcetera.com

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Refresher - Passkey Authentication

The merchant asks for passkey authentication

Customer   Smartphone   Web-Shop   Merchant   Institution RP   FIDO Server   SPC challenge

Pass

netcetera

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Refresher - Passkey Authentication

The merchant asks for passkey authentication

Customer

Smartphone

Institution RP

FIDO Server

Verify your purchase

Store	spc-demo-merchant.incubation.test.netcetera.com
Payment	ndb — Netcetera ACS: 123412******1234
Total	€83.99 EUR

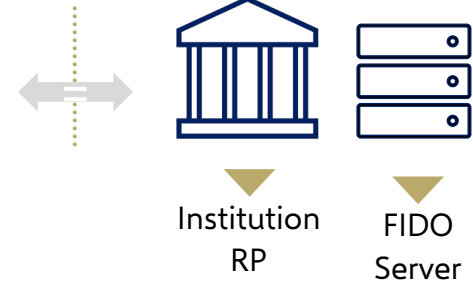You chose to verify with this phone on websites that use spc-demo-issuer.incubation.test.netcetera.com. This provider may have stored information about your payment method, which you can request to be deleted.

Continue

Cancel

Refresher - Passkey Authentication

The merchant asks for passkey authentication

proof

Customer

Smartphone

Web-Shop

Merchant

Institution RP

FIDO Server

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Native App - Passkey Authentication

The merchant asks for passkey authentication

Customer   Smartphone   App   Merchant   Institution RP   FIDO Server   SPC challenge

Pass

netcetera

8

Native App - Passkey Authentication

The merchant asks for passkey authentication

Customer   Smartphone   App   Merchant   Institution RP   FIDO Server

Pass

SPC challenge

Web Landing Page

netcetera

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Native App - Passkey Authentication

The merchant asks for passkey authentication

Verify your purchase

Store	spc-demo-merchant.incubation.test.netcetera.com
Payment	ndb Netcetera ACS: 123412******1234
Total	€83.99 EUR

You chose to verify with this phone on websites that use spc-demo-issuer.incubation.test.netcetera.com. This provider may have stored information about your payment method, which you can request to be deleted.
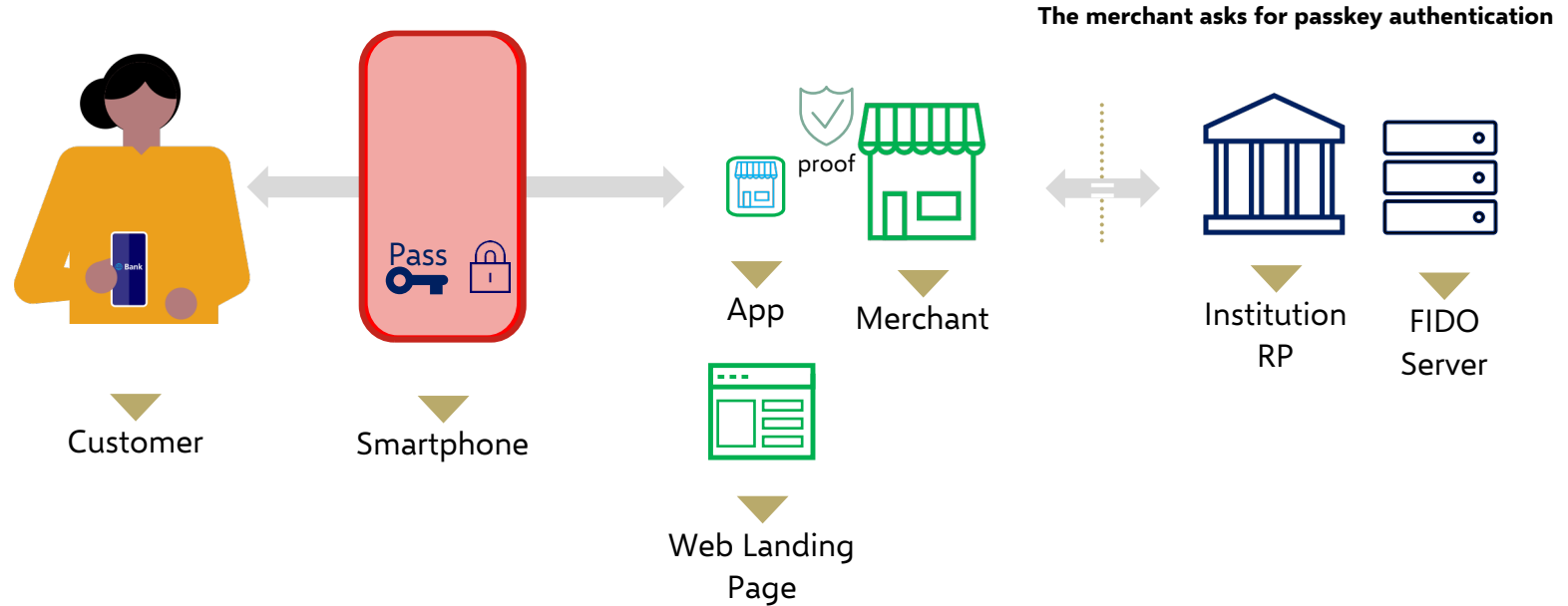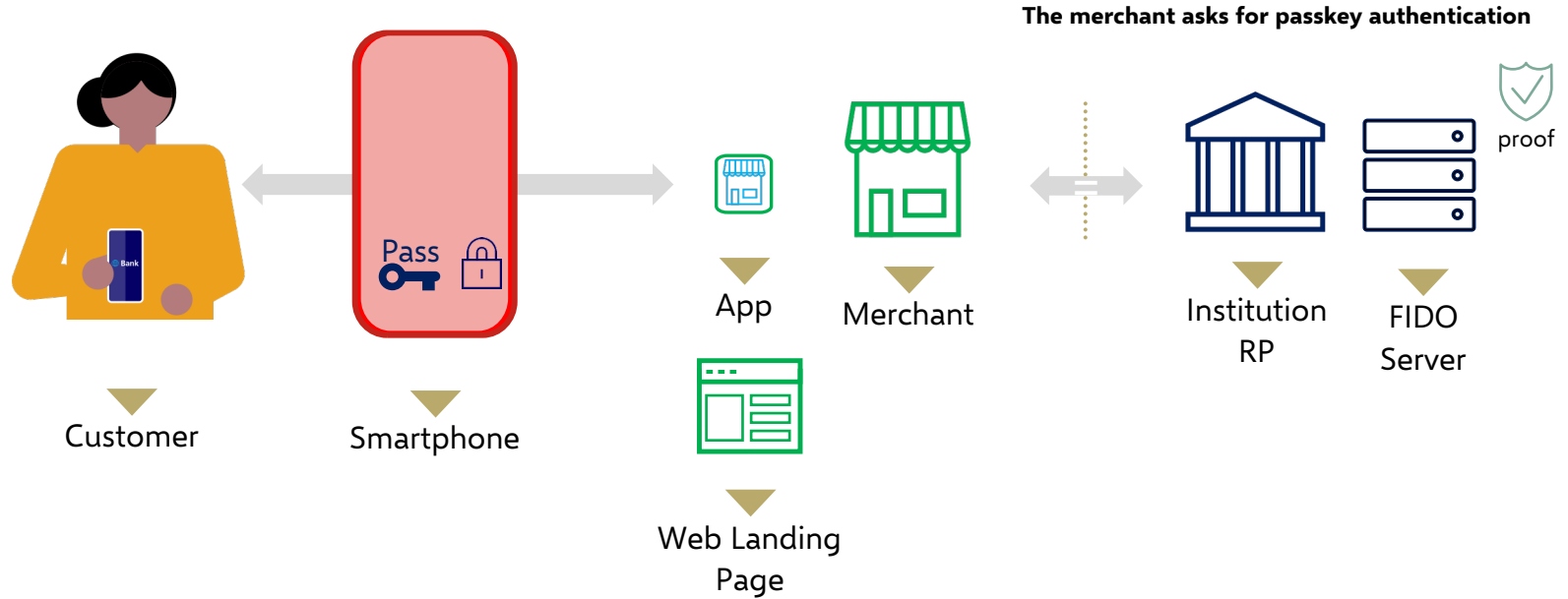
Continue

Cancel

Customer

Smartp

Institution RP

FIDO Server

Native App - Passkey Authentication

The merchant asks for passkey authentication

Customer

Smartphone — Pass

App — proof — Merchant

Web Landing Page

Institution RP

FIDO Server

Native App - Passkey Authentication

The merchant asks for passkey authentication

Customer — Smartphone — App — Merchant — Institution RP — FIDO Server — proof
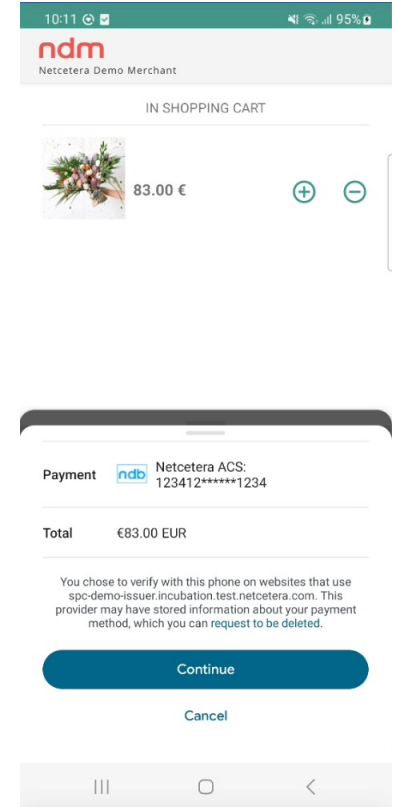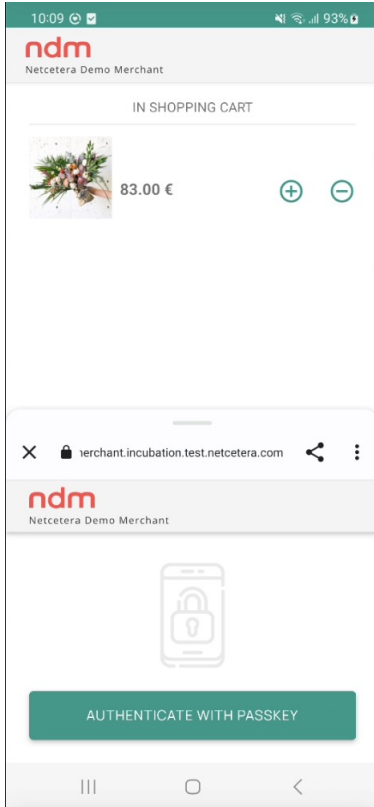
Pass

Web Landing Page

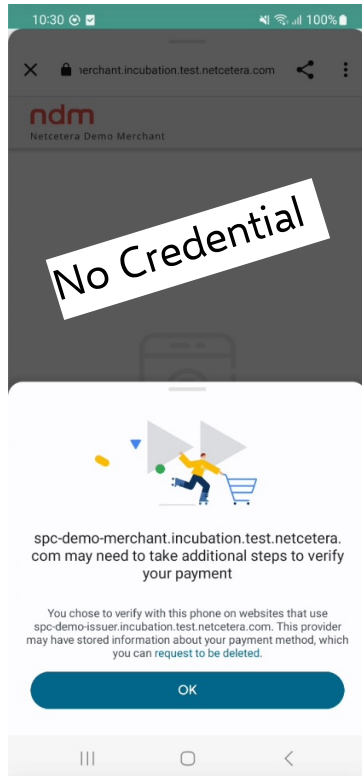netcetera

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Demo

- Enrollment

- Authentication

Technology

- CustomTabs (browser inside application)

- Merchant Orchestrated Authentication

- Session handling
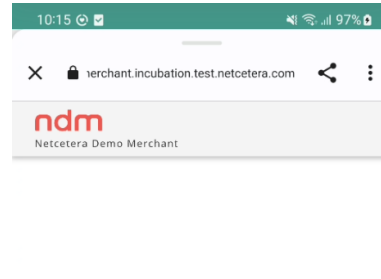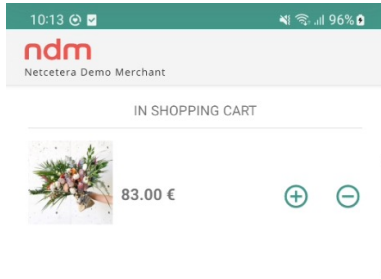
- Landing Authentication page

- Redirection

PartialCustomTab
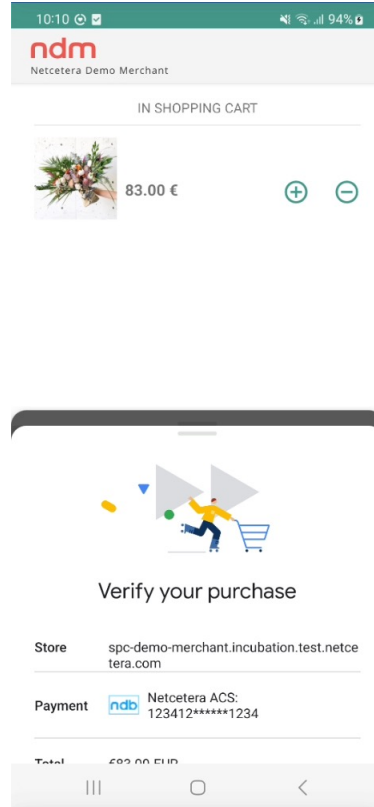
Error Handling

Redirect to app

Redirect to native app

Redirect to native app

Url handle should pick this up!

Url handle should pick this up!

Override default browser

```kotlin
const val CHROME_PACKAGE_NAME = "com.android.chrome"

CustomTabsHelper.bind(this, CHROME_PACKAGE_NAME)
```

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Ideas for improvement

Elevated privileges for CustomTabs when executed from trusted App

- Message exchange

- Event listener

Thank you

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Secure Digital Payments

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