



ELECTRONIC SUPERMARKET

ACME EMARKET

Group 03

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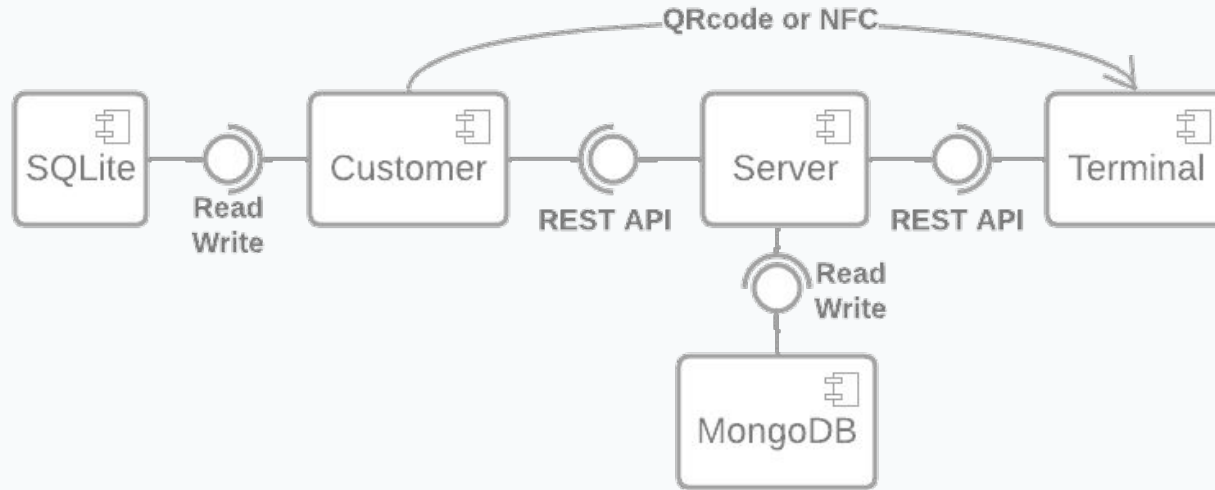


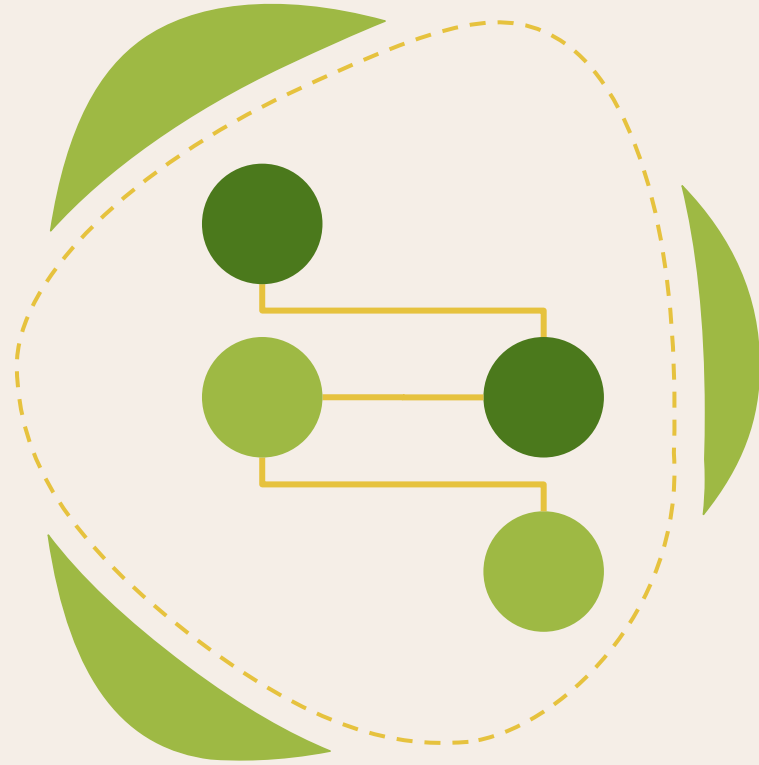


01

ARCHITECTURE

ARCHITECTURE

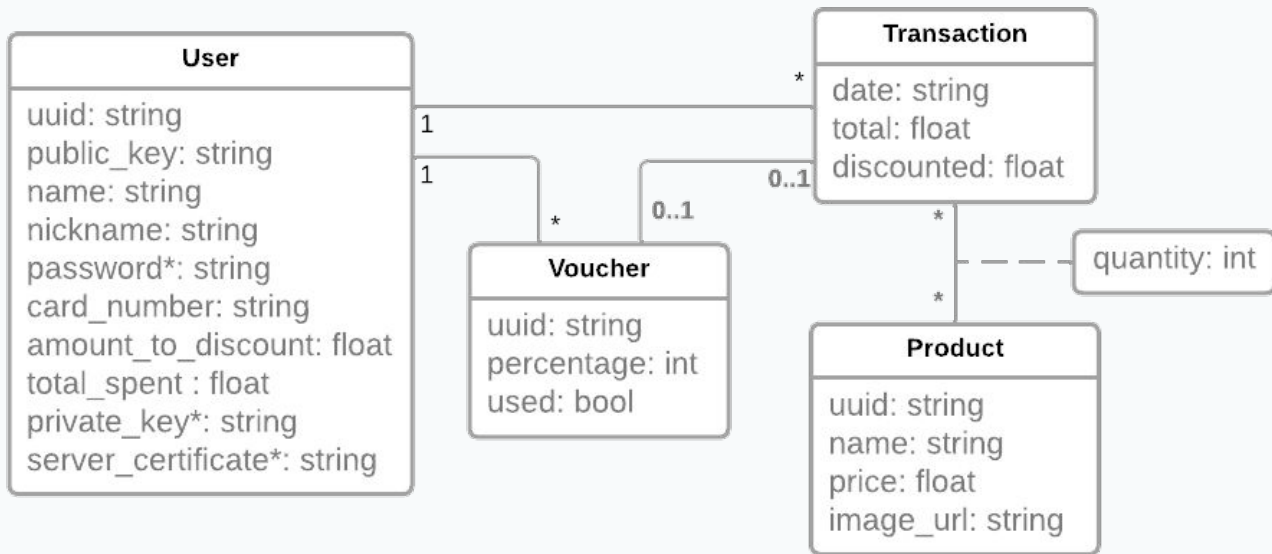




02

DATA SCHEMAS

DATA SCHEMAS





03

ACME REST API

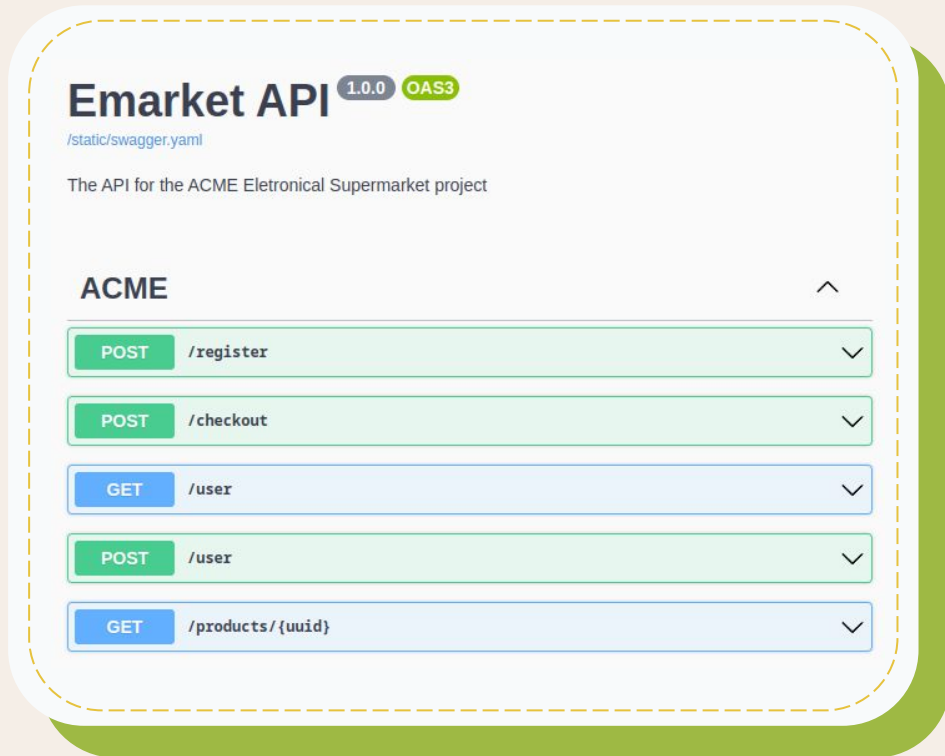
REST API

4 routes allow the main application to:

- Register the user
- Retrieve the user information
- Update the user information
- Get the product image

1 route allows the terminal application to:

- Forward checkout procedure to the server and get its result





04

FEATURES

FEATURES

REGISTER

Send personal info
Send Public Key
Receive Server Public Key
Receive user UUID
Hash password
Autoformat card number



LOCAL LOGIN

Retrieve info from server, if possible



BASKET

Read item QRCode
Shake or click to scan
Limit of items (10)
Delete item
Item encrypted
Item image



CHECKOUT

Via QRCode
Via NFC
Choose a voucher
Discount acc. amount
Cryptographic signature



TRANSACTIONS

Retrieve
Show details
Filter by date



VOUCHERS

Created on multiples of 100
Accumulate their value
Shown on profile



PAYMENT

Read checkout QRCode
Read checkout NFC tag
Display result



NOTIFICATIONS

Received on new transaction
On click show details



SETTINGS

Turn notification on/off
Set default checkout method



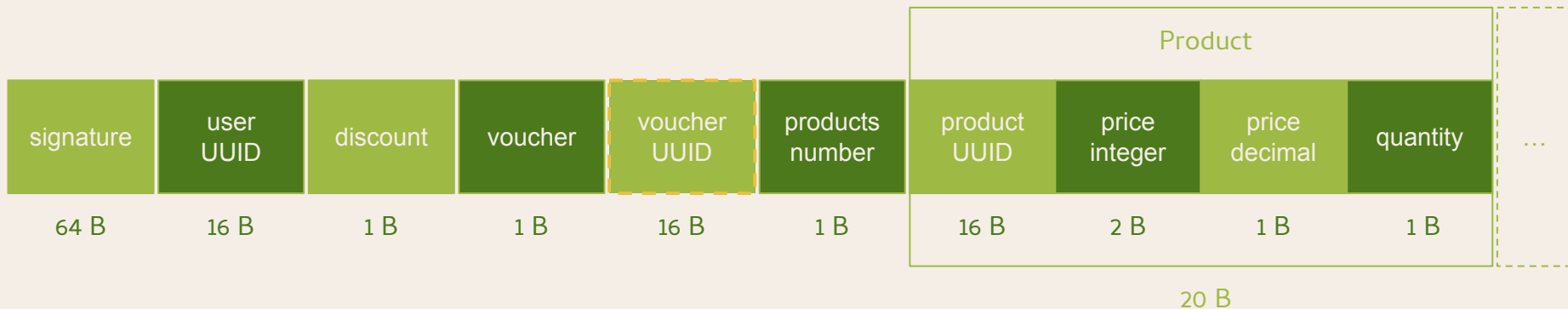
LAYOUT AND THEMES

Portrait and Landscape
Light and Dark themes





Checkout Representation



MIN SIZE: 103 B

MAX SIZE: 299 B





05

DEMO



06

CONCLUSION

CONCLUSIONS



Features

The system meets all proposed requirements and implements some additional features



Cryptography

The system satisfies all cryptographic requirements



Knowledge

We acquired valuable insights in the domain of mobile app development