Designing Lightning wallets for the Bitcoin user

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Usability and wallet security

- Usability: what and why?
- The Bitcoin financial revolution needs interfaces.

From Bitcoin to the Lightning Network

New complexities

To whom?

New complexities

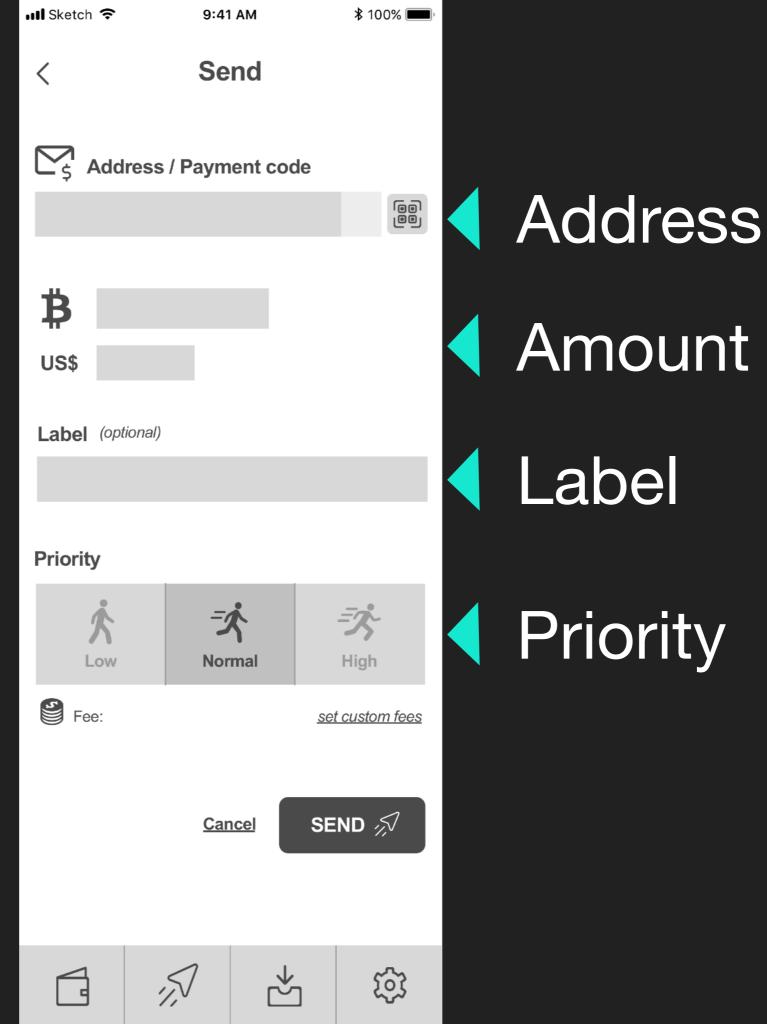
To whom?

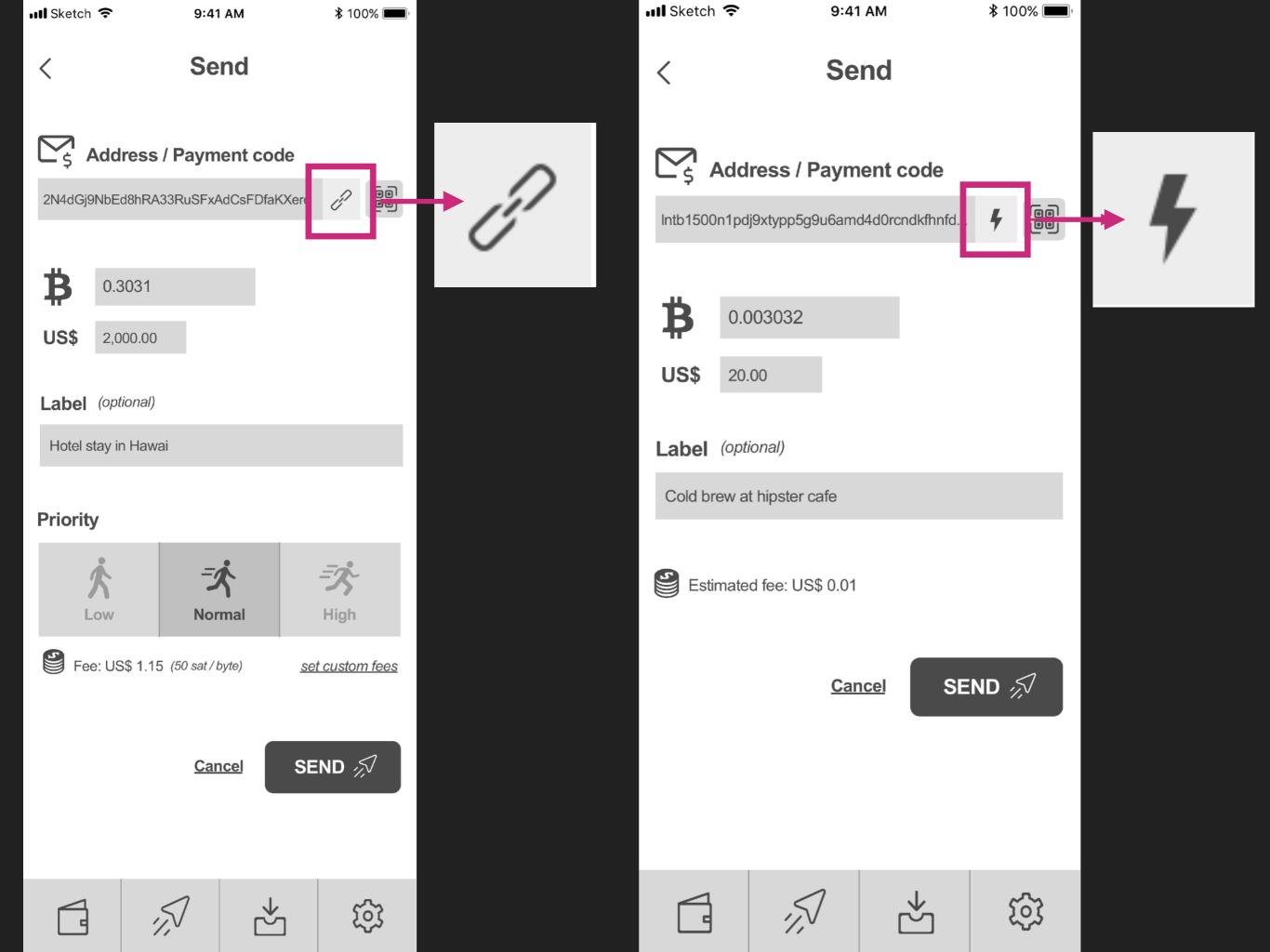
 Remove unnecessary complexities and don't break the user's mental model

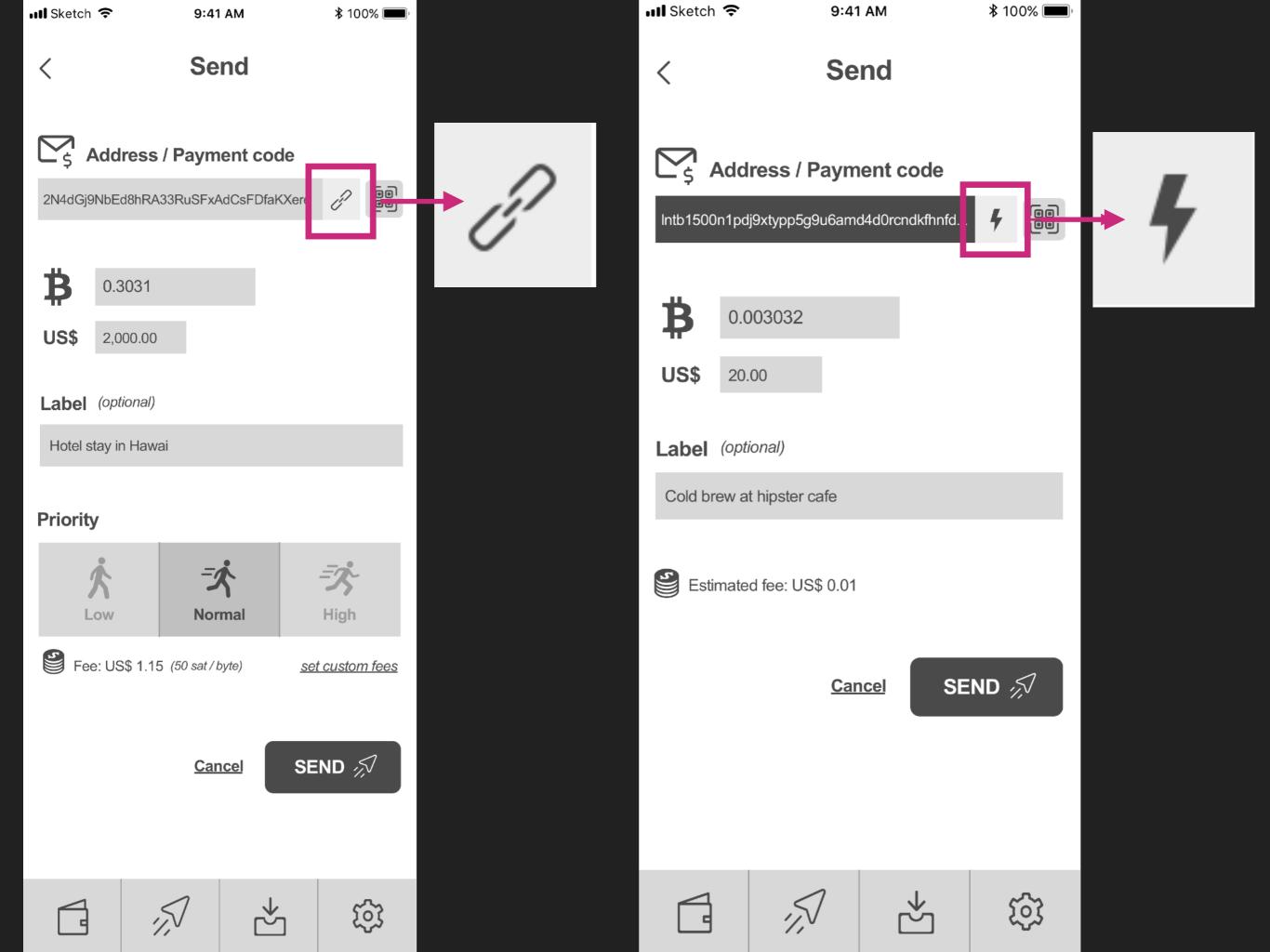
Looking at the wallet

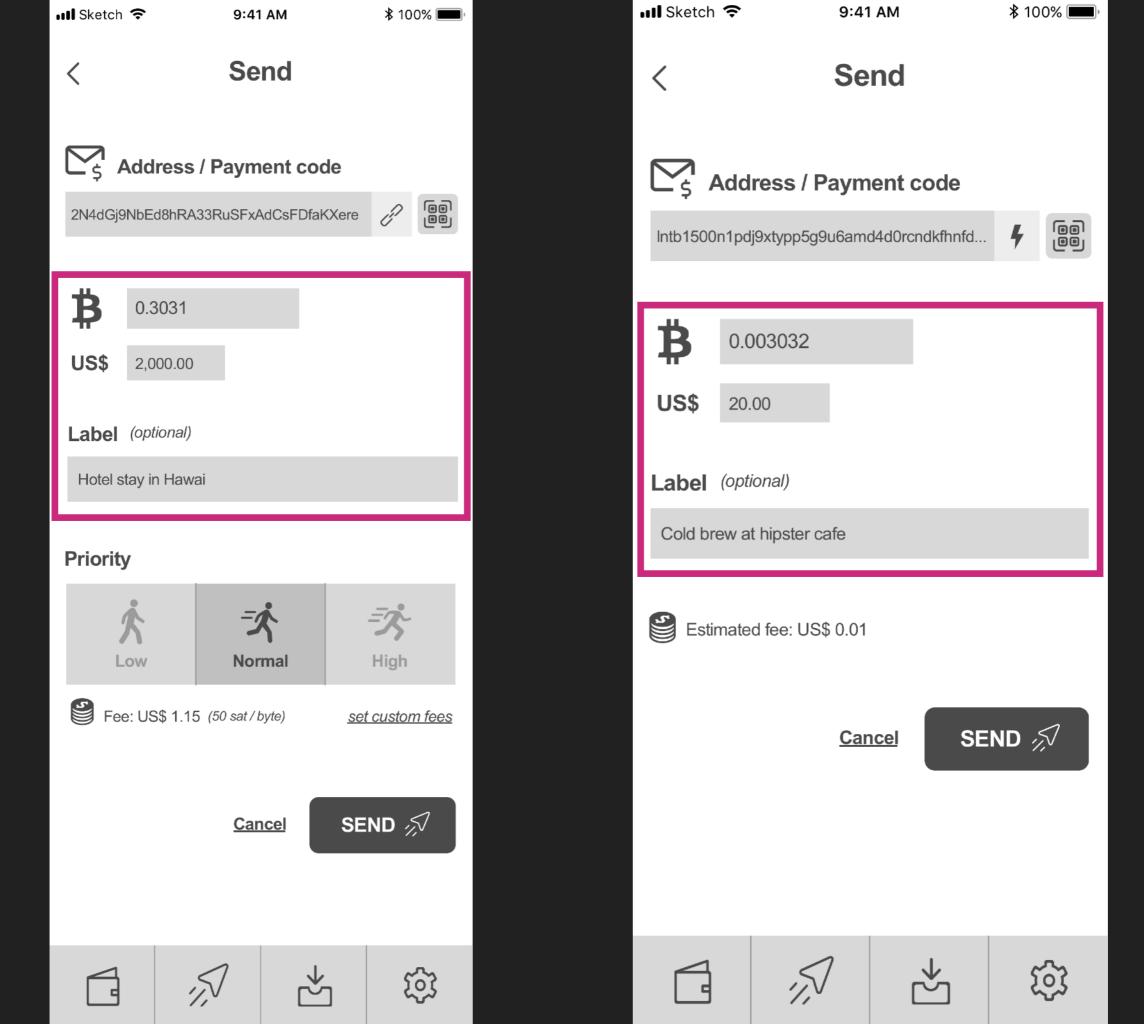
The one we need, not the one we deserve.

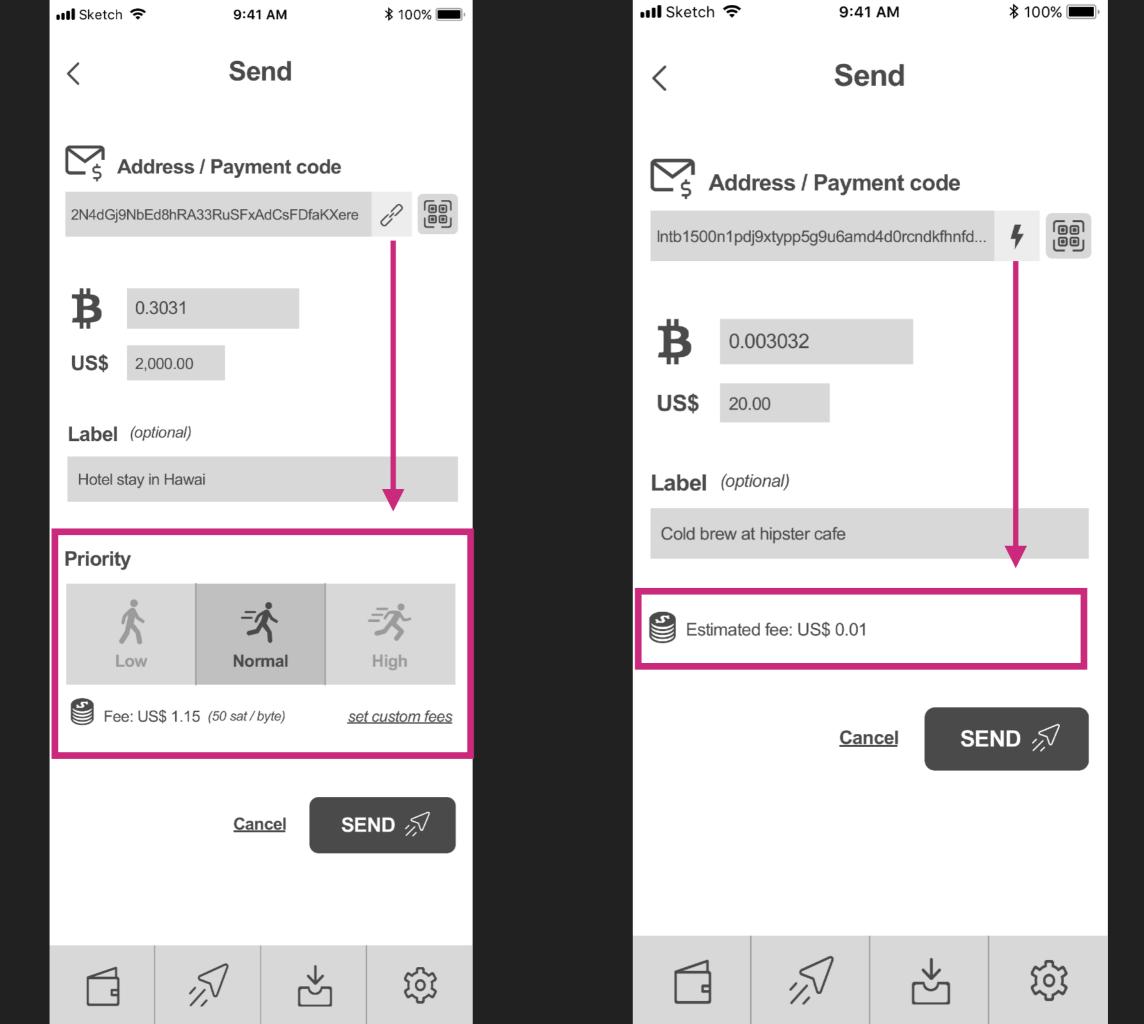
Pay



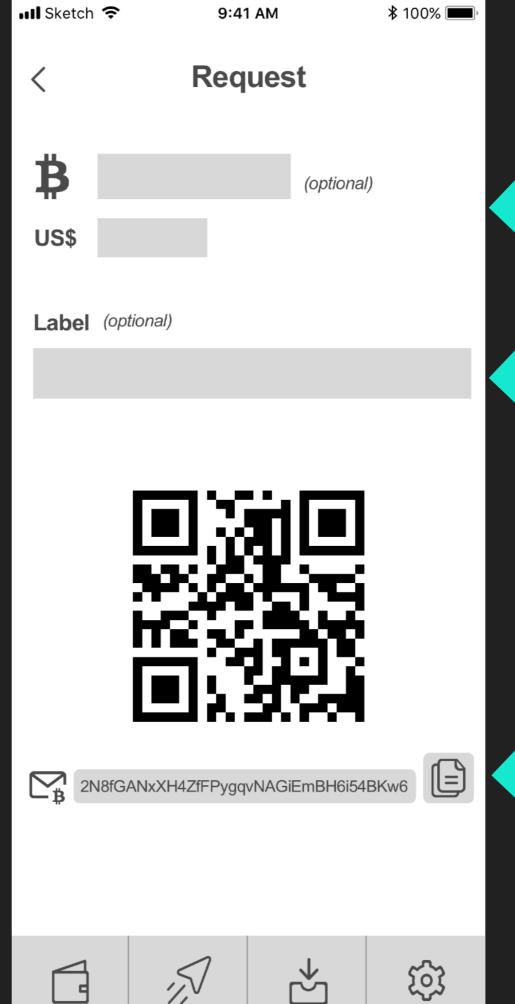








Request



Amount

Label

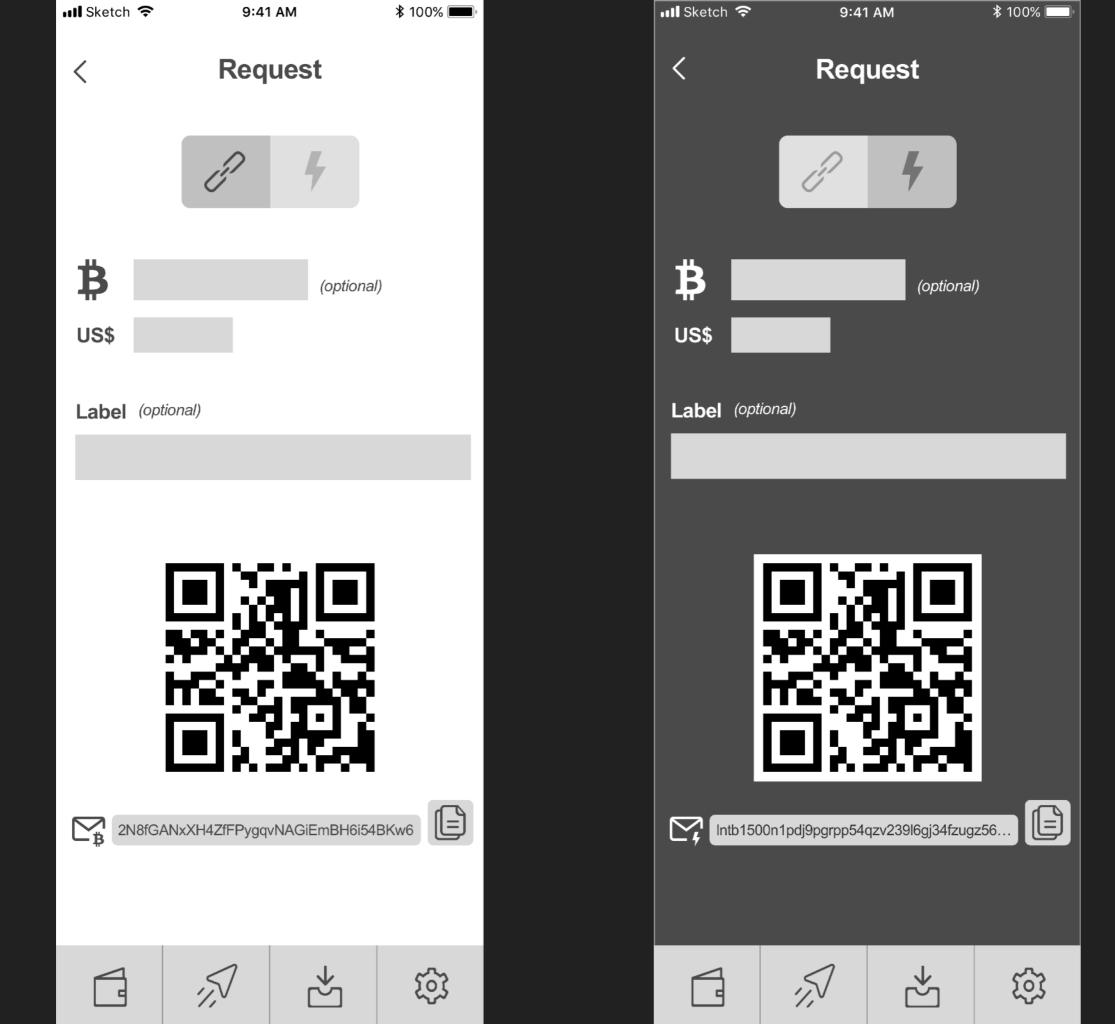
Address

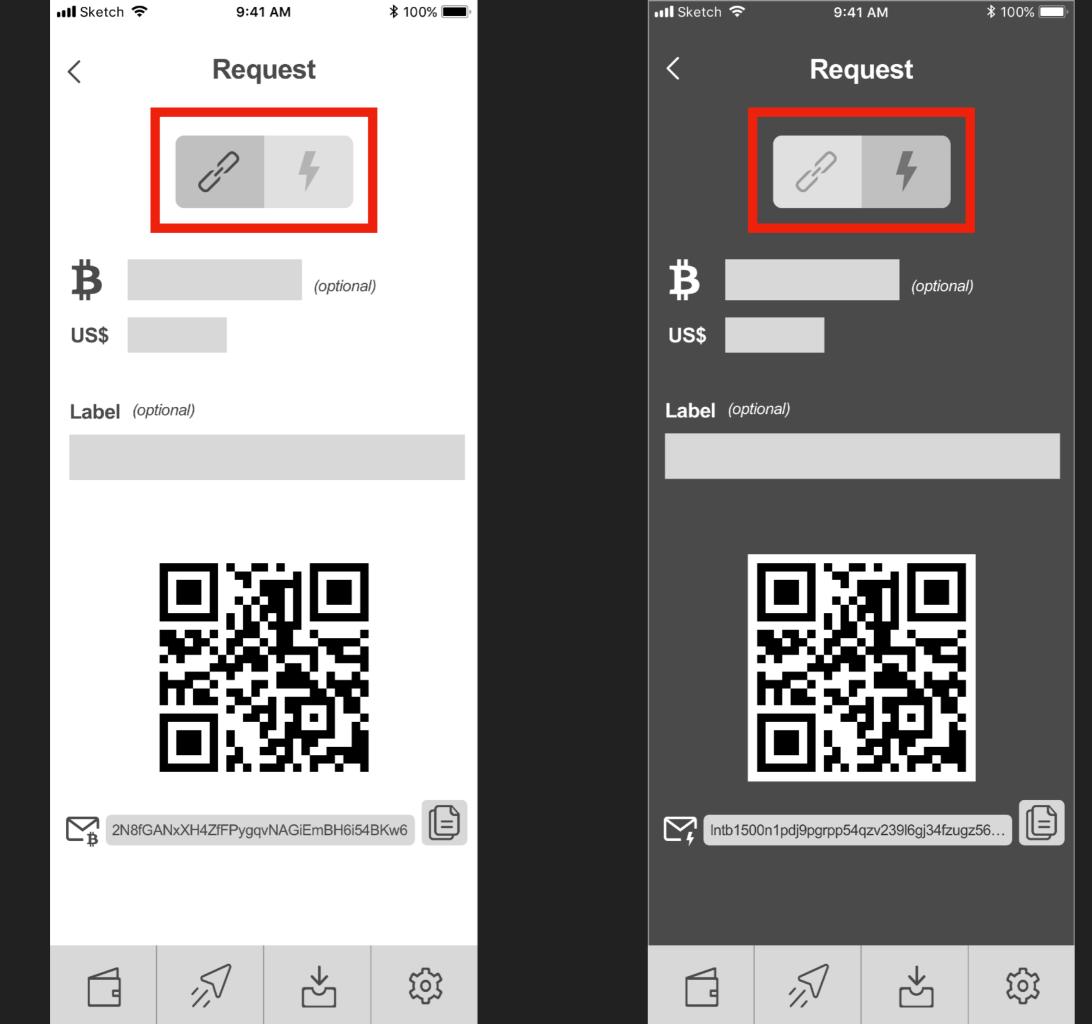






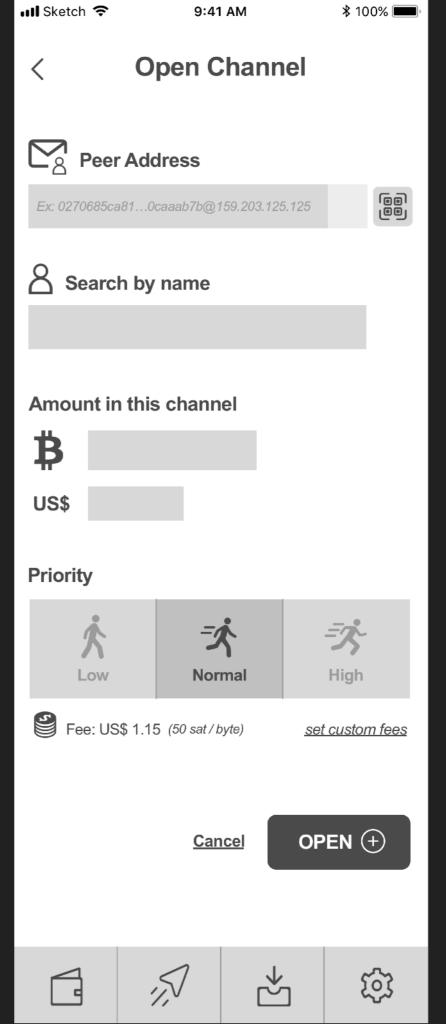


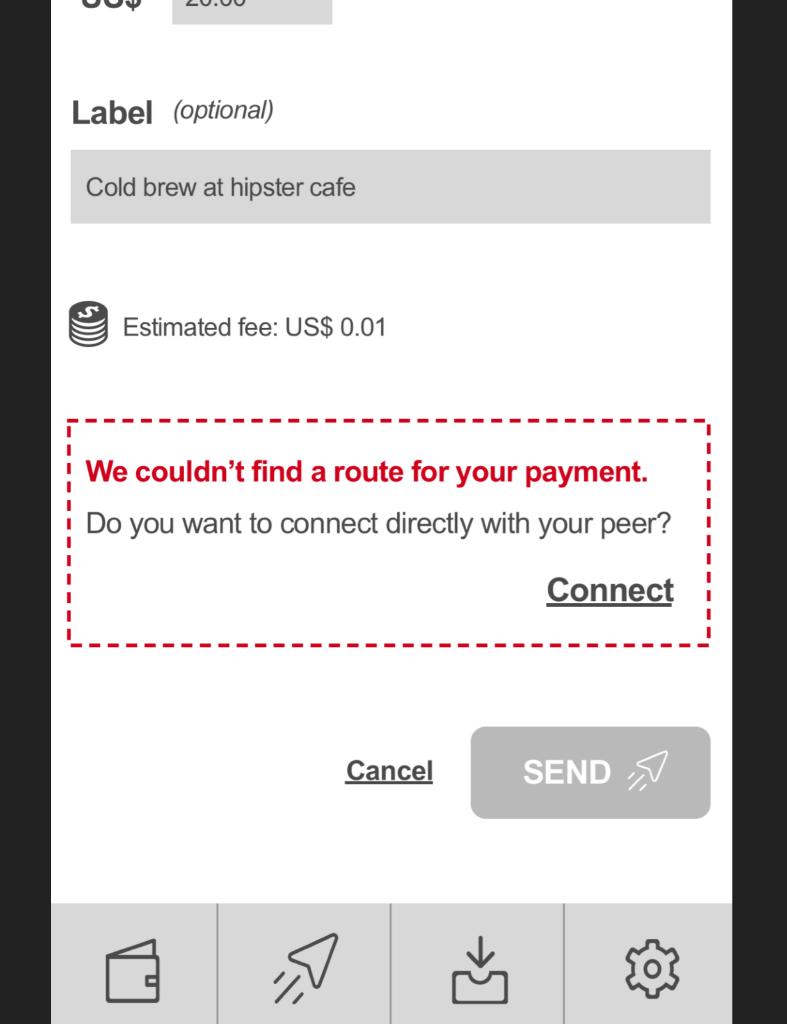


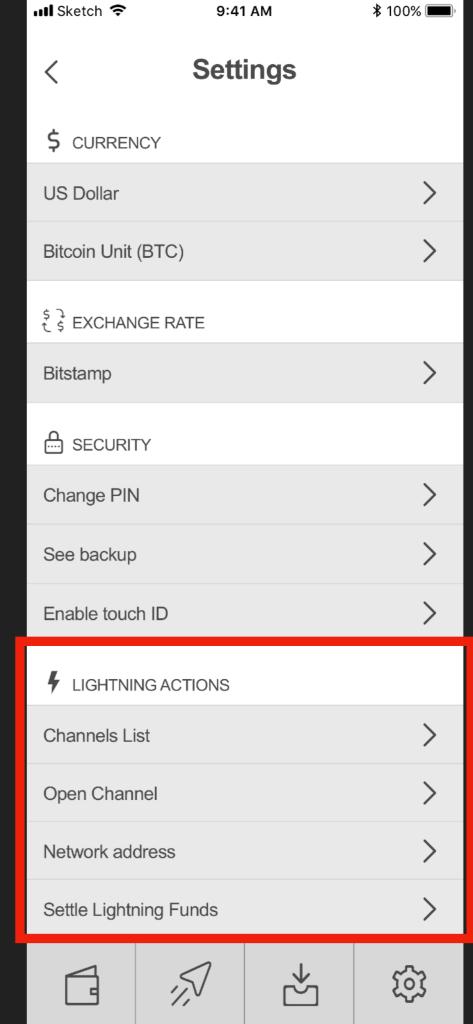


Channels

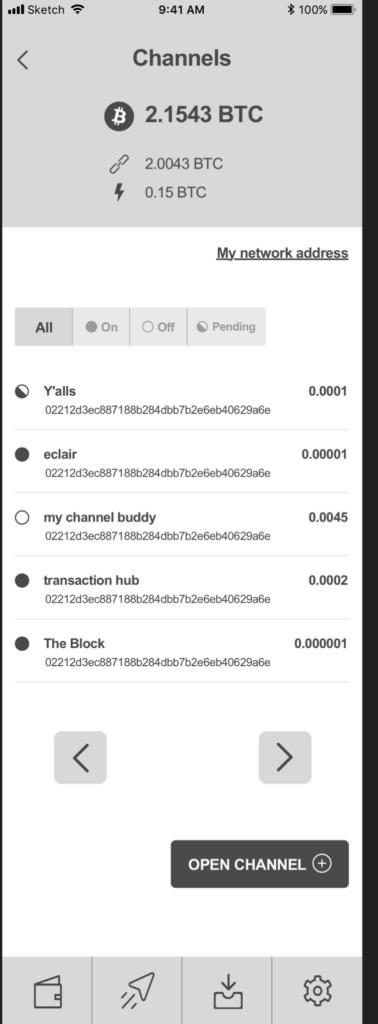
Open Channel







Channels Page



Settle

< Settle Lightning Funds

9:41 AM

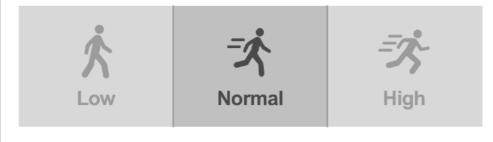
• 0.15 BTC available

Amount to settle

■■ Sketch 🕏

B 0.05 US\$ 323.30

Priority



%

Fee: US\$ 1.15 (50 sat / byte)

set custom fees

***** 100%

Cancel

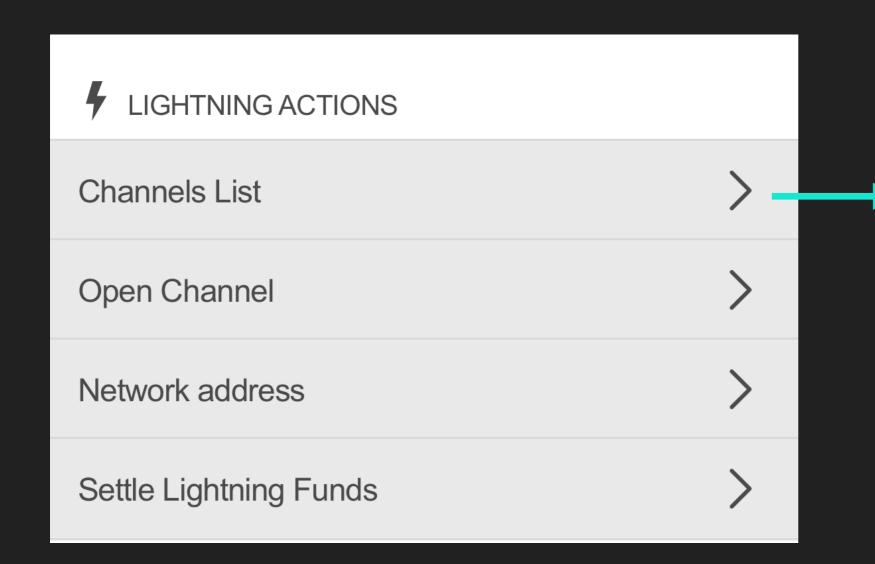
SETTLE NOW

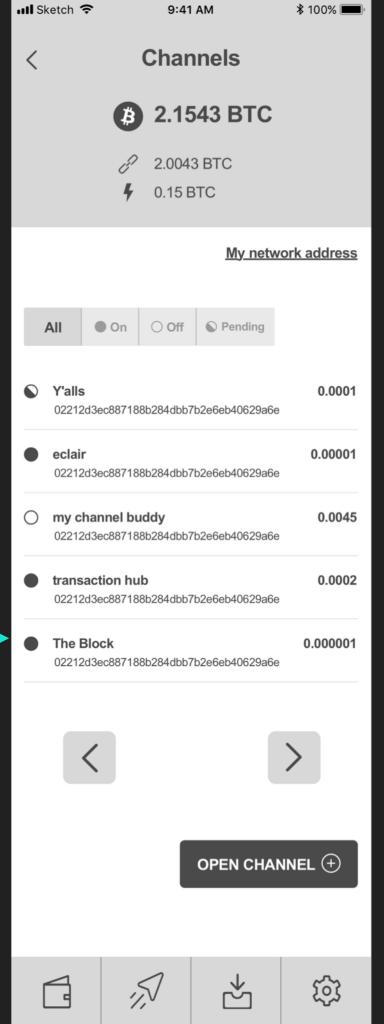
Lightning amount

Amount to settle

Priority

Channels Page





Channels Page

my channel buddy 02212d3ec887188b284dbb7b2e6eb40629a6e

0.0045

transaction hub

0.0002

02212d3ec887188b284dbb7b2e6eb40629a6e

The Block
0.000001

02212d3ec887188b284dbb7b2e6eb40629a6e





OPEN CHANNEL (+)

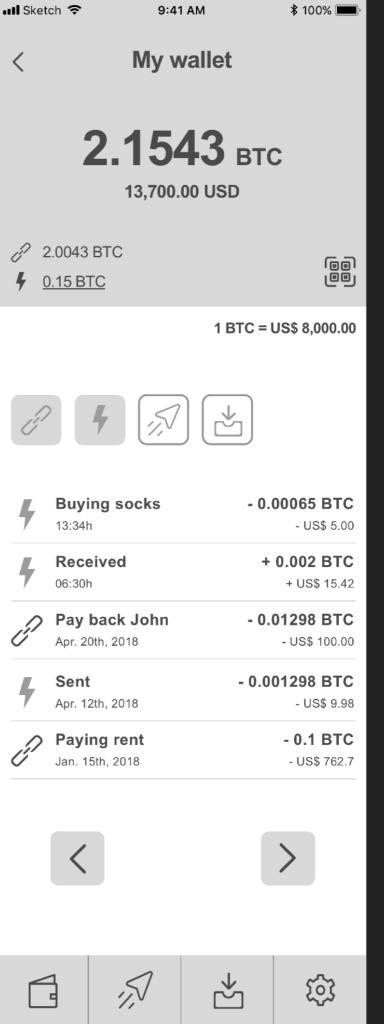




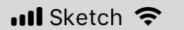




Lightning Cues



Lightning Cues



9:41 AM

***** 100%



My wallet

2.1543 BTC

13,700.00 USD



2.0043 BTC



0.15 BTC



1 BTC = US\$ 8,000.00











Buying socks

13:34h

- 0.00065 BTC

- US\$ 5.00

Lightning Cues



4	Buying socks 13:34h	- 0.00065 BTC - US\$ 5.00
4	Received 06:30h	+ 0.002 BTC + US\$ 15.42
P	Pay back John Apr. 20th, 2018	- 0.01298 BTC - US\$ 100.00
4	Sent Apr. 12th, 2018	- 0.001298 BTC - US\$ 9.98
P	Paying rent Jan. 15th, 2018	- 0.1 BTC - US\$ 762.7





Lightning Cues



Paying rent

Jan. 15th, 2018

4	Buying socks 13:34h	- 0.00065 BTC - US\$ 5.00
4	Received 06:30h	+ 0.002 BTC + US\$ 15.42
P	Pay back John Apr. 20th, 2018	- 0.01298 BTC - US\$ 100.00
4	Sent Apr. 12th, 2018	- 0.001298 BTC - US\$ 9.98



- 0.1 BTC

- US\$ 762.7

Know your user

 I've been talking mostly about the general non-technical users, so far.

The user who understands just enough

Lack of usability can be a feature

TL; didn't listen

 We can build Lightning tools that don't necessarily break the user's mental model.

 Lightning wallet interfaces don't need to be very different from Bitcoin wallets, after all.

It's our responsibility as tech creators to deliver it.

Thank you!

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