

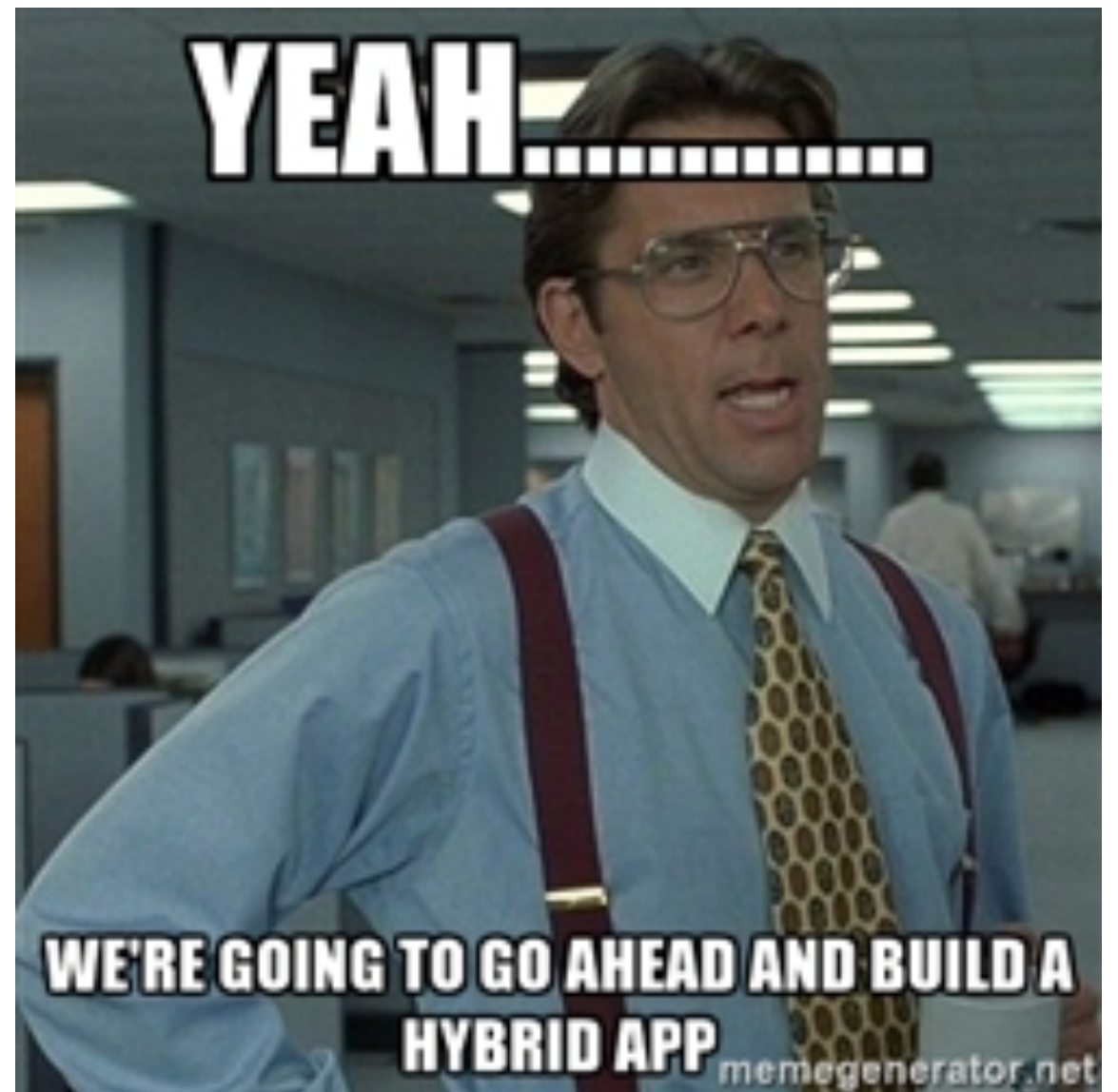
Hybrid Apps and OAuth

@darkyen00



Hybrid scenarios

- Electron, NodeWebkit
- Cordova+
- React Native
- CLIs
- Browser Extensions



**Amount of time I want to
spend on implementing auth**

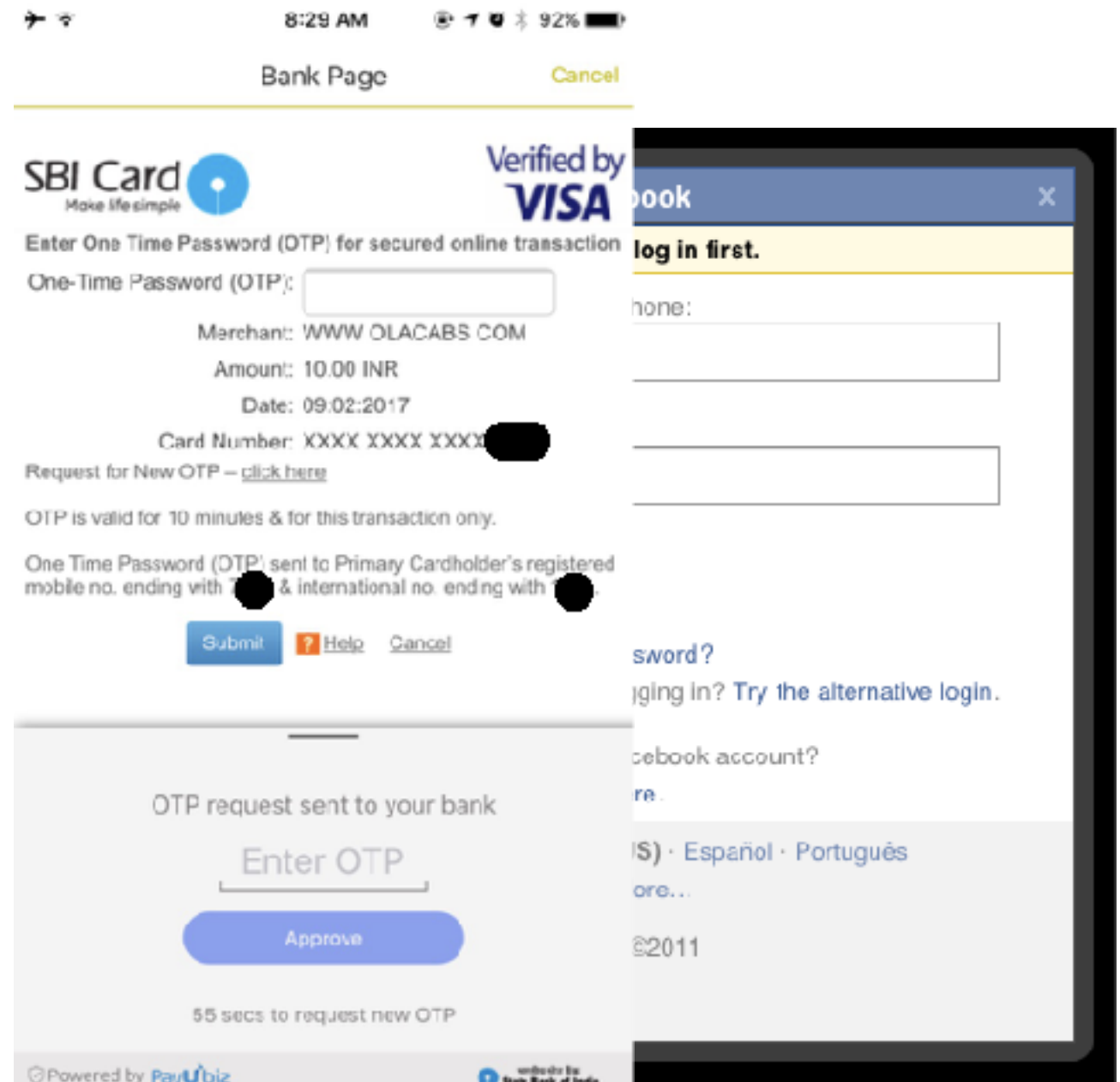


OAUTH 2.0

- No passwords.
- Free data.
- Quick access.
- Just a lot simpler

We have a trust issue!

- Lower level access to WebView
- Is it even the Facebook?



A meme featuring Woody and Buzz Lightyear from the movie Toy Story. Woody is on the left, looking concerned. Buzz is on the right, wearing his green and purple space suit and making a hand gesture with his right hand. The background is a blurred indoor setting.

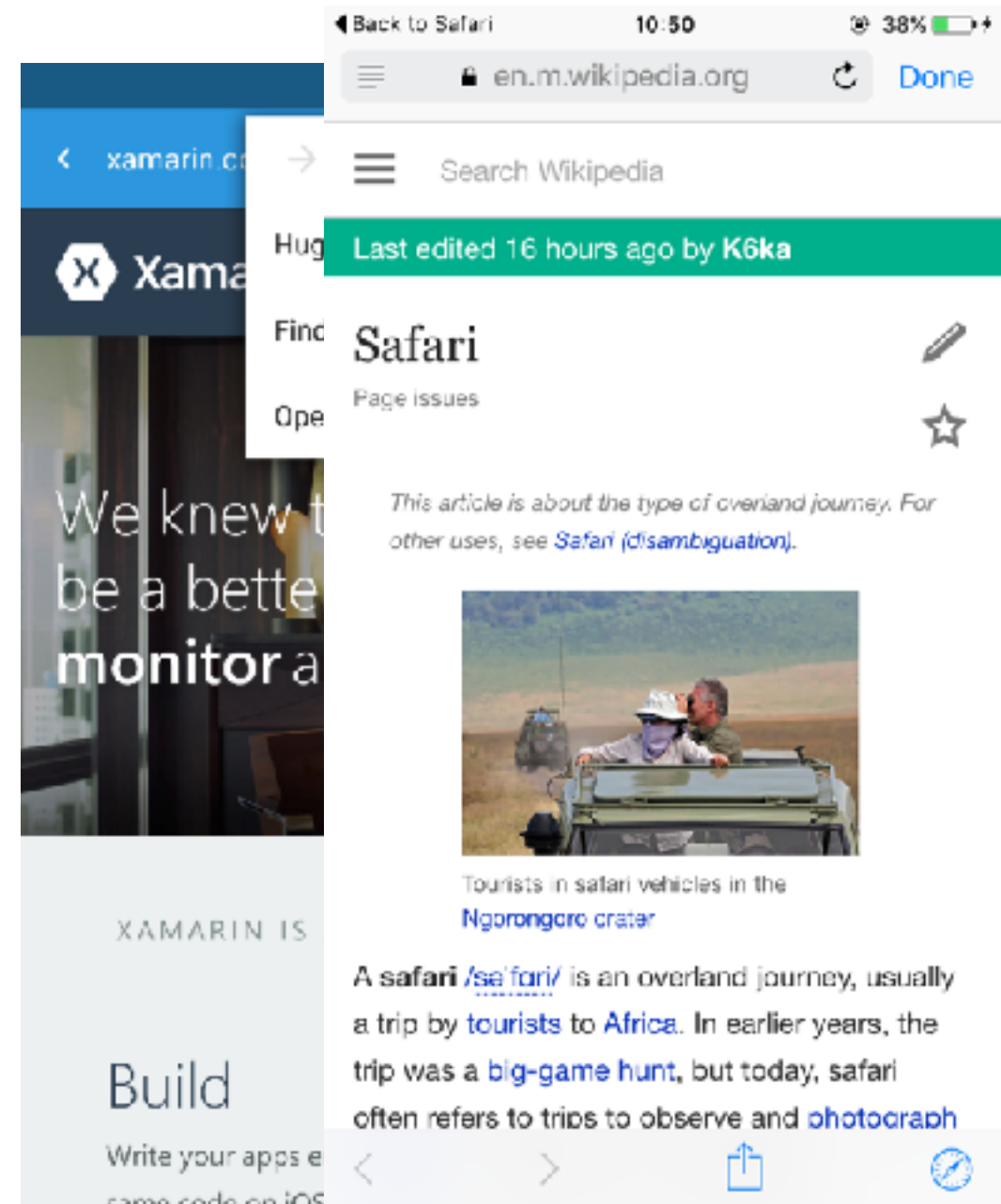
0AUTH 2.0

ATTACK SURFACE EVERYWHERE

mememaker.net

This problem is already solved 🎉

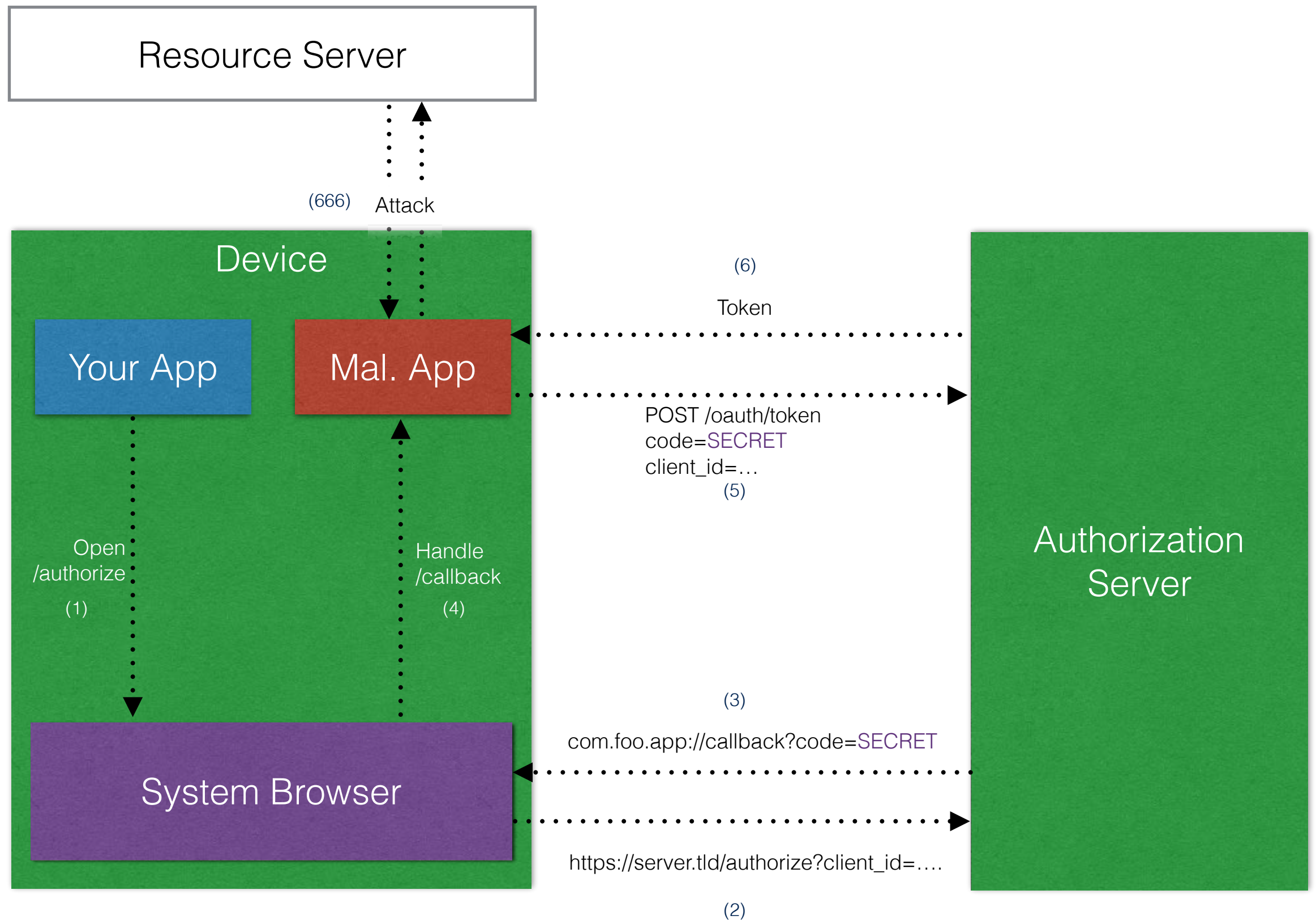
- Embeddable System Browser
- Android
 - Custom Chrome Tab
 - Supported up to 4.3
- iOS
 - SafariViewController



So which flow are you gonna use?

- Use implicit.
- Use code flow on client.
- Use code flow on server.





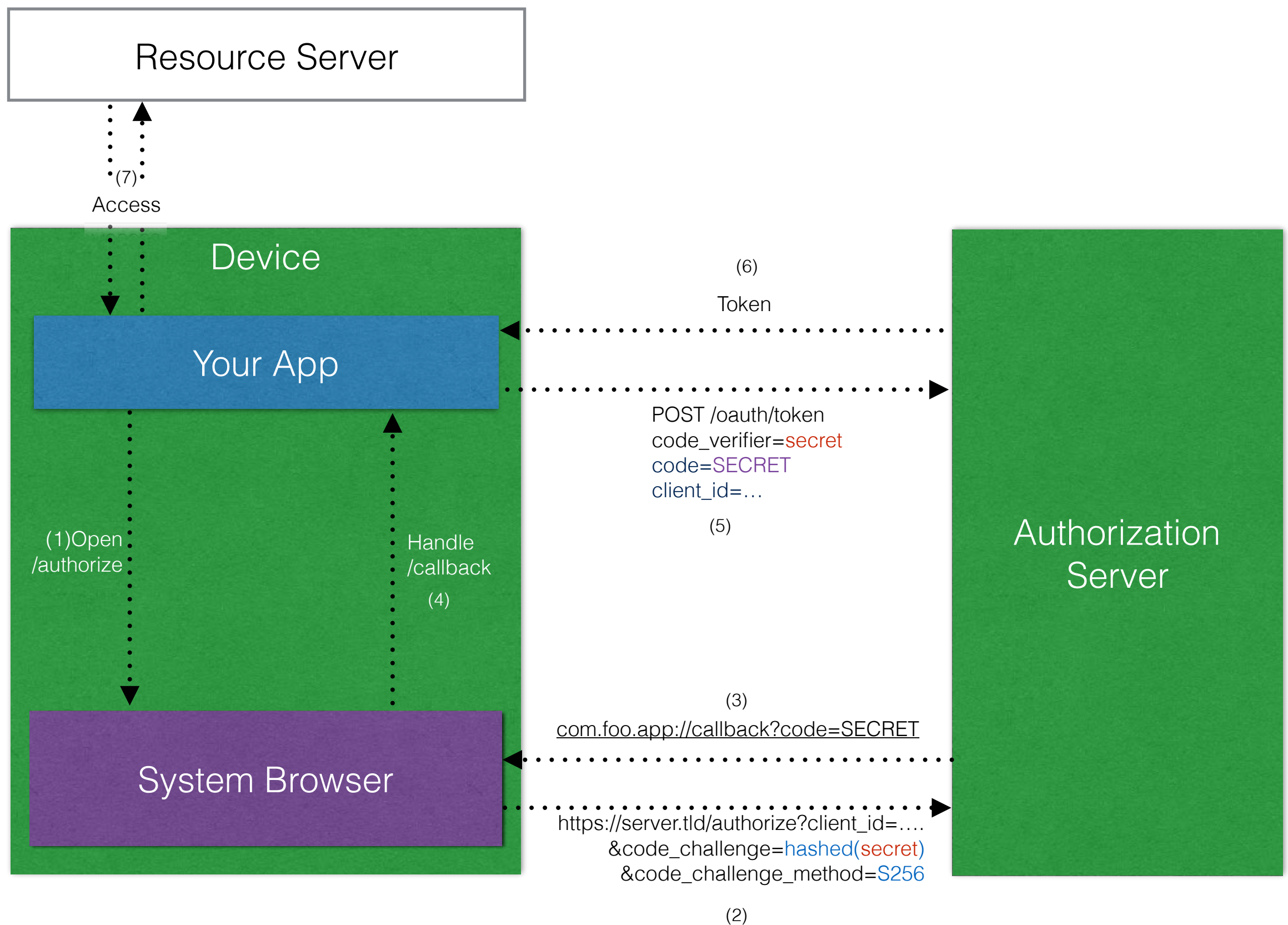
Nothing is safe!

P.K.C.E.

my friends call me “Pixy” others call me
“Proof of Key for Code Exchange”,

PKCE (RFC 7636)

- Client sends additional parameters for authorization
 - `code_challenge`=hashed(`secret`)
 - `code_challenge_method`= Hashing Algorithm
- Client adds `secret` as `code_verifier` to exchange code for token
- Server validates by hashing the secret to get the original challenge.



PKCE (RFC 7636)

Demo Time 🧐

<https://github.com/darkyen/pkce-demos>

How do I get involved?

- <https://github.com/EddyVerbruggen/cordova-plugin-safariviewcontroller>
- Add to your apps 📱
- Supported by Google 🎉
- Supported by Auth0 🧑