Wawa Hackathon 2019

Speedy Sandwich

Problems

- Long lines at the kiosk at peak times
- People have to repeatedly re-enter their favourites all the time
- People forget how they ordered the last time
- Very few kiosk users also use the app
- Even app users also use the kiosk
- People are not ordering ahead or using the app all the time

App vs Kiosk

	APP	KIOSK
Pros	 PreOrdering Already Paid Easy to Reorder Easy to keep track of orders 	 Easy to pay cash Easy combine with other inventory Easy to order with others Easy to navigate Always on and working
Cons	 Hard to use cash Hard to order with others Still have to pay to get other inventory Phone could be dead or utilized already 	 Can be busy at times Have to pay at register Wait to order and wait to pick up

Solution

- Unite the two with QR codes
- Make sharing data between app, kiosk, and receipts fast and easy
- Make it easy to share or add to orders

QR Codes are Cool ...Again









Bitcoin Cash Address

☐ Share □

☐ Copy address



And of course...

Buffalo Chicken Cheesesteak w/ Banana Peppers, Pepper Jack & **Blue Cheese**

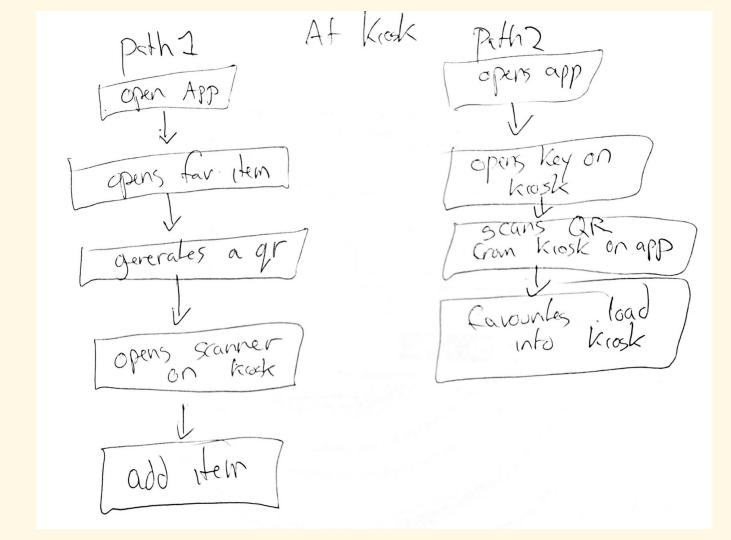


Validation

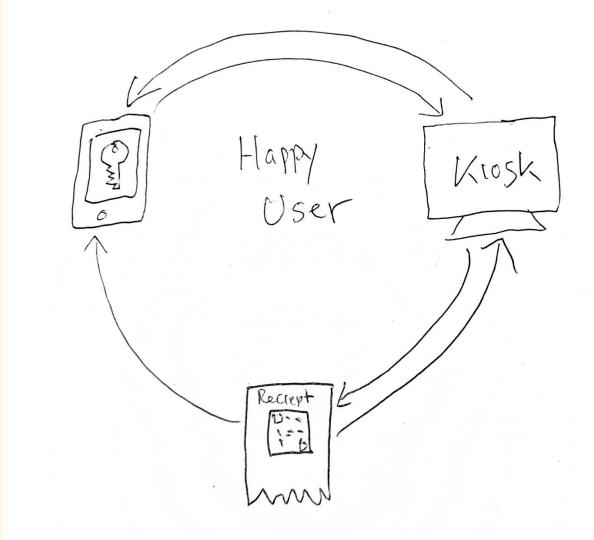
QRs already common for identity authorization between devices such as:

- Security Apps: Google Authenticator, LastPass
- Financial Apps: CoinBase, Bank Apps, Crypto Wallets
- Messaging apps: WhatsApp, Messenger for Google, We Chat
- And are seen on products, billboards, television, and more.

User Journey



Data Flow



Technology

Frameworks Used:

- Build with node, npm, firebase cli, react-scripts in a Docker dev container
- React frontend (latest using components & webhooks)
- Firebase backend not utilised thoug
- QR generator and scanner packages

Notes For Build:

- Serverless makes it easy to bridge (using Firebase bind data between 2 apps)
- QR scanner in app & kiosk if desired
- QR generator in app & kiosk if desired
- Camera or barcode reader for kiosk if desired
- Print QRs on receipts

Additional Benefits

- More app usage
- Understand more purchase behavior of users
 - Where and when the make orders on kiosks by abstracting data when:
 - They add a prev ordered item added via an app
 - Session initiated on kiosk
- Easier for people to share their favorites in ways that encourage action
 - o To make a purchase

The Future

- Utilize serverless better
 - AWS Lambda Functions! ← the future
 - Utilize infrastructure as code. Consider tools such as
 - Stackery
 - Begin.com architecture
- More personalized push notifications
- Better pick up on patterns. Alert people who have a high prob of ordering a limited resource about the possibility of running out.