BHIM











DETAILS

Organization Name: The Digital Fintech Yatra

Startup Name: Virtual QR-Codes

Team Member: Sagar Vats

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Problem Statement

QR-Code Expansion

" QR-codes being a static image , have many problems associated with it , so why are we trying to expand it to the masses "













Problem with QR-codes



- QR-code gets Damaged
- Scan the QR-code
- Ask for the QR-code
- Hectic when it's Crowded
- Putting new QR-code



Problem Statement

QR-Code Penetration

"Is there a better way of transmitting the same QR-information, which is more cost efficient, highly scalable and Dynamic in nature?"













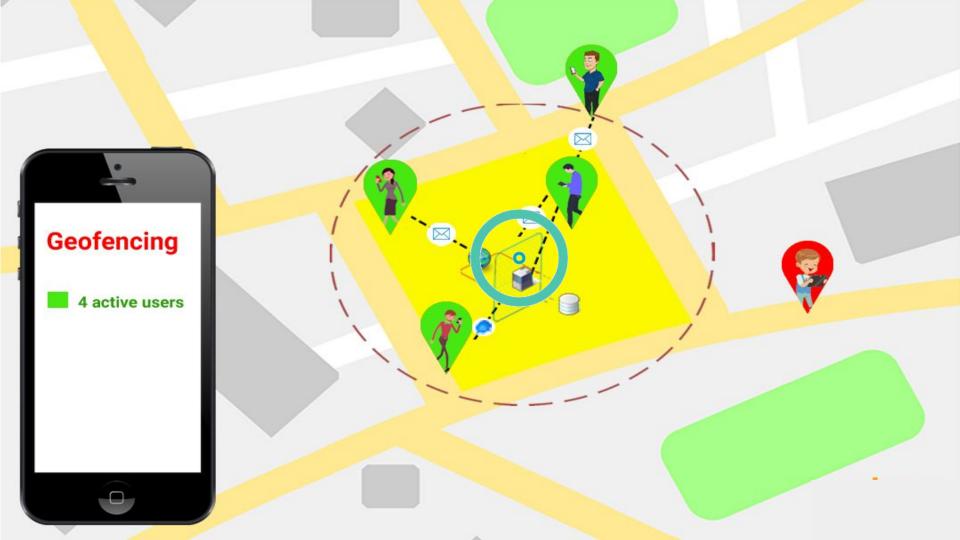
"Our Solution, Leverages the Intelligence over connected Devices to provide users to get the UPI / Merchant Details in his shop without scanning the QR-code, we are combining the Technology of GeoFencing, i-beacons, 1-click-Payment and QR-codes which is ground breaking in terms of security and dynamic changes."

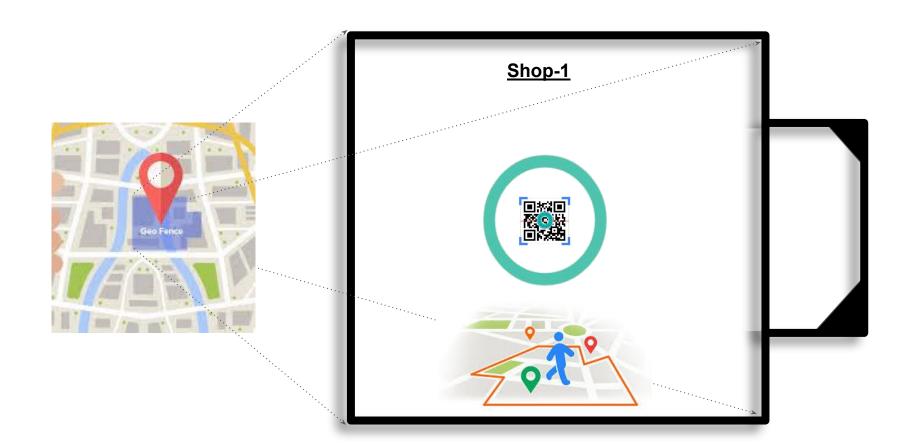


Industry 4.0 Solution











We are developing this Merchant App, which act as <u>(virtual -QR-code</u>), also we are developing a new feature for BHIM, so it can operate with virtual QR-code

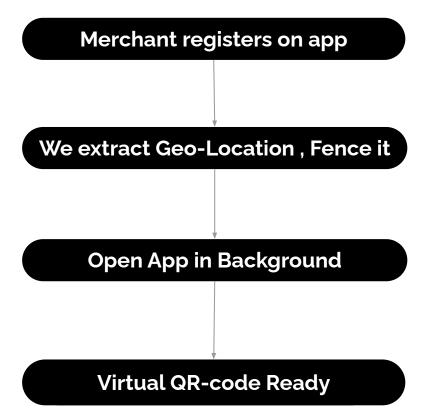
Broadcaster App

When the merchant registers himself on our platform, we get Geo-Location and other data from him, and provide him with UUID, which is attached to the account where he wishes to accept the money and after which his mobile start's broadcasting unid and it acts as a QR-code to the people who come to his shop for payments.

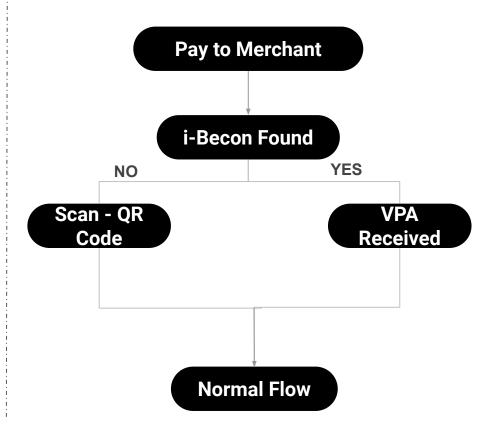
UPI - App

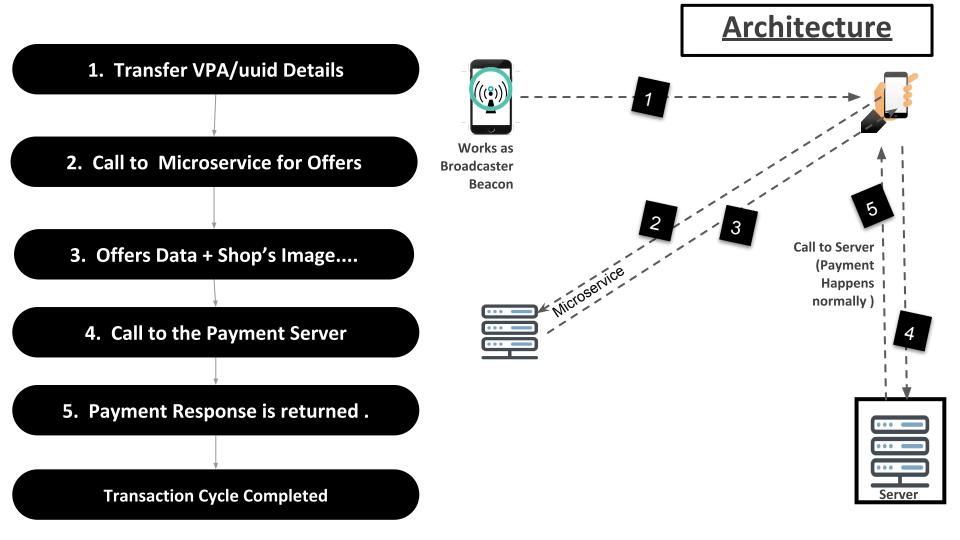
On the other hand, we have developed this functionality, which on basis of uuid & geolocation switches automatically b/w **the payment page** or **scanning page**, After which the process is same.

Merchant App



UPI - App





Features

- No Internet Connectivity
- No need to Scan- QR-code
- Pay from Anywhere in Shop
- Offers Available in Store
- Data Analytics Feature



Time for the Demo

https://youtu.be/wo6zESMynTY









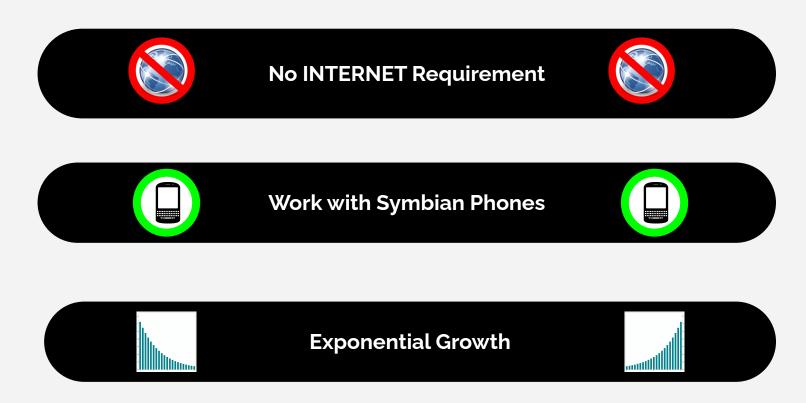








Why This Approach? #Uniquess





MongoDB - used for storing data.



Android Studio -For Native App creation .



Ajax - For request and response



Plugins - Vibration, Beep, FlashLight, GeoLocation cordova plugins for different functionalities.



Technology

Stack

REST API - for interacting with Database (Microservices Architecture)



Cordova - For creating app for multiple platforms (android, ios..) once only.



Bootstrap -for User Interface and Designing

Impact / Future Scope

Using Wi-fi & Li-fi Technology (2011) with Smartphones instead of BLE.

Integrating Big-Stores (WalMart; D-Mart; Big-Bazaar) with Wi-fi instead of BLE.

Automatic Redirection to Secondary VPA, if limit is full for primary one

Direct Voice Based Payments form Wallet

Business Model



Merchant-Dashboard(PAID)

Customer Profiling and providing merchant with their shop specific Dashboard

Personalized AD's

Targeting people with specific ads, based on their location.

Data Analytics

Heat Maps of Supply and demand zones, payment zones, connectivity zones and other relevant information can be Sold

.



Basic Demo :- https://youtu.be/wo6zESMynTY

Live Demo :- https://youtu.be/96UgloyvZmY











<u>Demo</u>



Some fields of a merchant registered with us







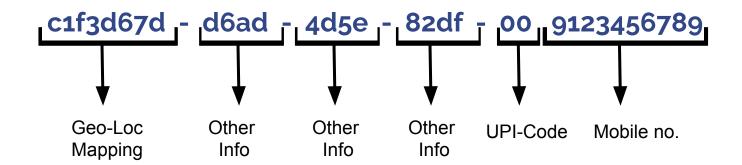




<u>Demo</u>



(how we capture VPA from uuid)













<u>Demo</u> (Merchants Registered for Prototype)



<u>UUID</u>

VPA

Merchant

"c1f3d67d-d6ad-4d5e-82df-009123456789" -> 9123456789@paytm -> "Sudama Chat Wala";

"c1f3d67d-d6ad-4d5e-82df-008459953212" -> **8459953212@ybl** -> "Radhe Pani Puri ";

"c1f3d67d-d6ad-4d5e-82df-007018652297" -> 7018652297@paytm -> "RK Cafeteria";

"c1f3d67d-d6ad-4d5e-82df-007571075954" -> 7571075954@paytm -> "Ice-Cream Parlour "

"c1f3d67d-d6ad-4d5e-82df-008080166671" -> 8080166671@ybl -> "Chat-Pakori Corner";





















Problem :-

Is there a **better way of transmitting** the same QR-information, which is

- more cost efficient.
- Highly scalable
- Dynamic in nature?

Solution: Using <u>BLE Beacons</u> to to transmit Info, combined with **Geo-Fencing** to massively Scale it to masses.

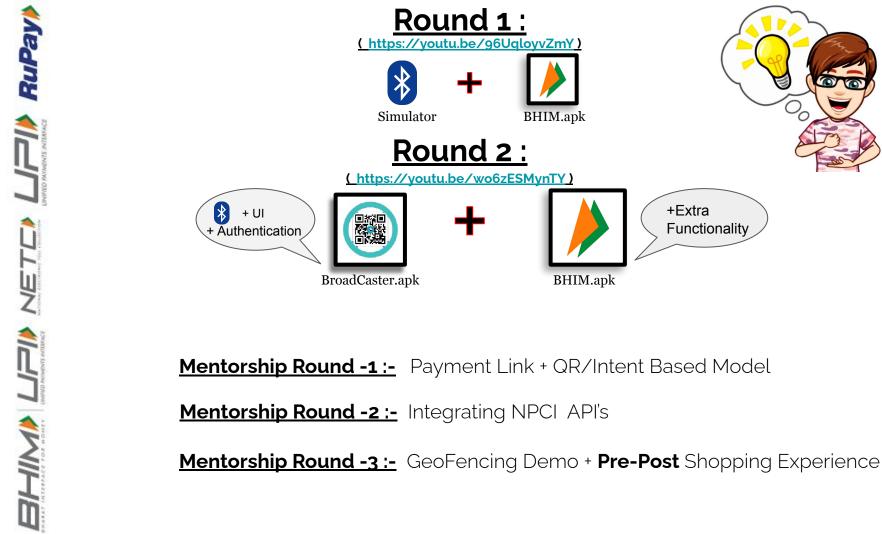






















Round 1:

(https://youtu.be/96UqloyvZmY)











(https://youtu.be/wo6zESMynTY)











BroadCaster.apk

BHIM.apk

Round 3:









MyBasket.apk







Thanks

(Achievments)





