Idea Pitch:

Team Sweaty

The Problem:

The COVID-19 pandemic has presented our community with several problems. The one that caught our attention was the issue of contact with common surfaces (door handles, elevator buttons, etc.) and one of the most common surfaces that many people rely on is cash. There are a great number of people in our community that rely on cash. People such as car guards and petrol station attendants (from now on referred to as our clients) rely on cash for their tips, but people aren't carrying cash anymore so their income decreases (let alone the fact that people haven't been driving around as much).

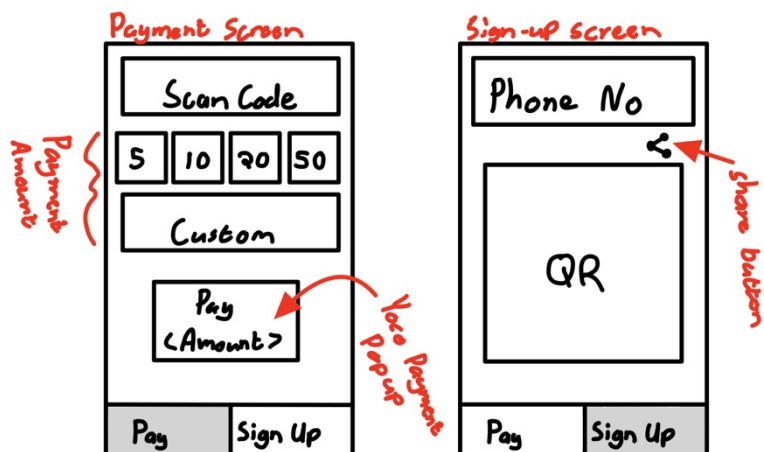So these people need a cashless way to receive tips.

The Solution:

Our solution incorporates a few powerful technologies to allow people to tip using their credit and debit cards and still provide those being tipped with the cash that they rely on.

The Yoco API allows us to create a website for people to make payments, the use of QR codes allows this process to be completely seamless and finally the tip is received by the client comes to them as an SMS with an instant cash pin that can be redeemed at an ATM.

Prototype:

After a brainstorm and discussion session we decided on a design.

The website will be simple and mobile focuses, following many of the design expectations set out by the mobile apps we are all used to. There are two main features, payment and sign up. The payment allows users to scan a QR, enter an amount and make the payment (using the pop-up feature of the Yoco API). The sign up page will allow clients to join the app. Clients will enter their cellphone number and a QR code will be generated for them to share with the users that will be tipping them. This way there is no formal sign-in, if the client already exists the system just needs to retrieve the previously generated QR code otherwise it adds them and generates a new code. Refer to the image for a rough sketch of the UI.

Tools:

Our team decided to make use of React.js to develop a responsive and intuitive webapp that assist with the payment of funds. The web app makes use of the Yoco api to handle payments. GitHub was used as version control and enabled effective collaboration amongst the team.

Project Breakdown:

- Milestones
  - · Homepage
  - · Payment's page
  - · Account page
- Future plans
  - · QR code scanning
  - · DB Hosting to contain client information.

Team Member Responsibilities:

- Sashen:
  Sashen is responsible to for the general user interface: the two pages for payment and sign up and the elements of each.
- Liam:
  Liam is responsible for the deeper implementations of the outside API's such as the Yoco API and QR code generation.
- Suvanth:
  Suvanth is responsible for keeping track of our timeline and making sure we are ready for the Hackathon presentations.
- Luc:
  Luc is responsible for the backend of the website, storing all the information that we need for the website to function.

These define the primary role of each member. However, a member may work on other aspects of the project where assistance is needed or where their preferred area of expertise lies. For example although Luc has set out to cover the formalities of the Hackathon, however so far he has helped build certain react components to help out Sashen.