

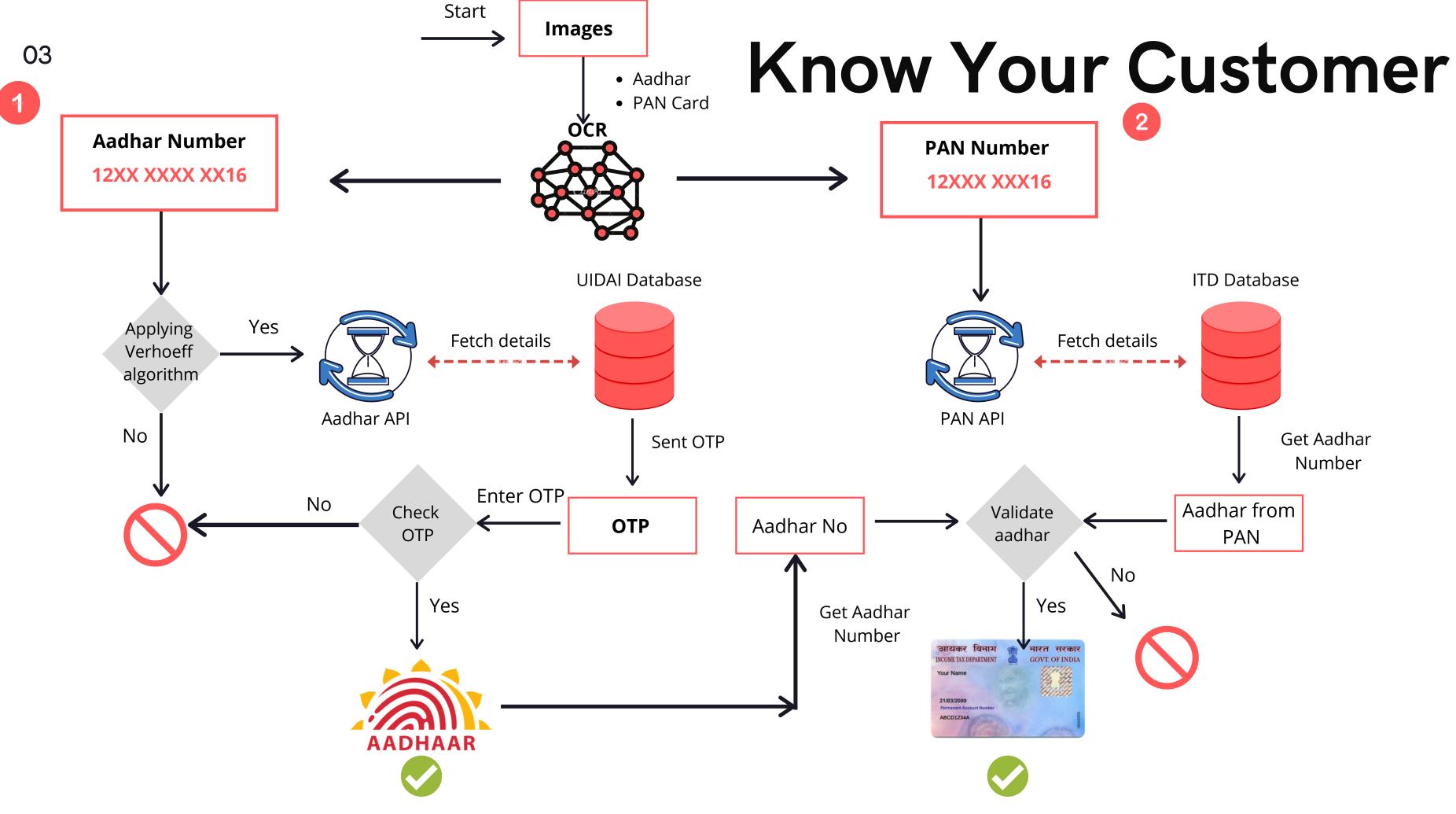
Team Brainstormers Malay Saxena Ajinkya Taranekar

Overview

Mitra is a SaaS, for getting your khata and stock inventory on your hand, moreover, you can apply for loans with instant approvals to making EMI payments on your existing loans, Mitra app is the one-stop solution for all your credit needs.

- You can now easily apply for any of loans, in a minute or so.
- Get all the details about your loans, make EMI payments, request your loan statements and know the details of your receipt.
- Manage your stocks and orders in our online khata.
- Calculate the EMI for your loans through a simple, easy-to-use interface.

Mitra has now come to your smartphone for help. Download the Mitra app today!



Aadhar Verification Complete

PAN Details Verification Complete

Surrogates

Past week store purchase bills

We will ask them a week ago purchases for their inventory. Preference: PDF, Image

• Property ownership

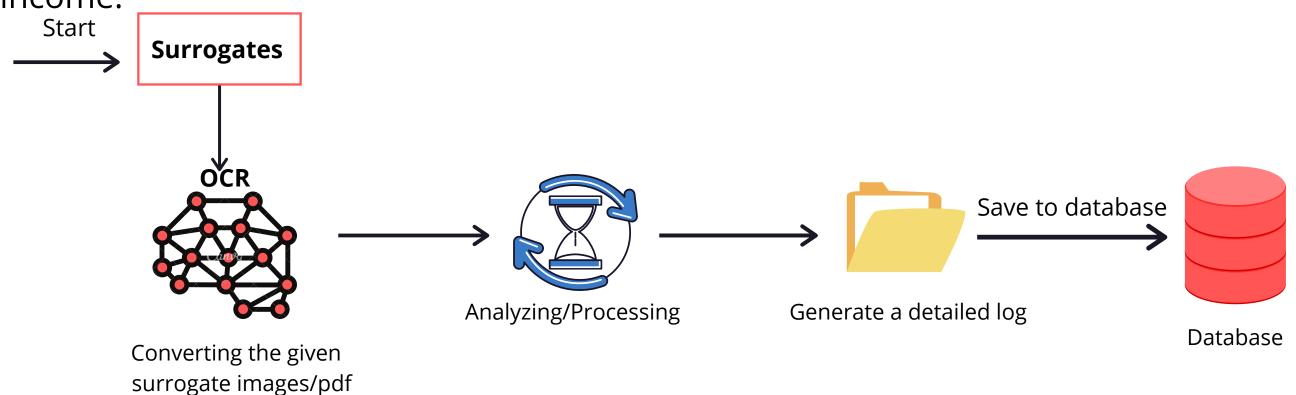
How is the property owned or have rights over it?

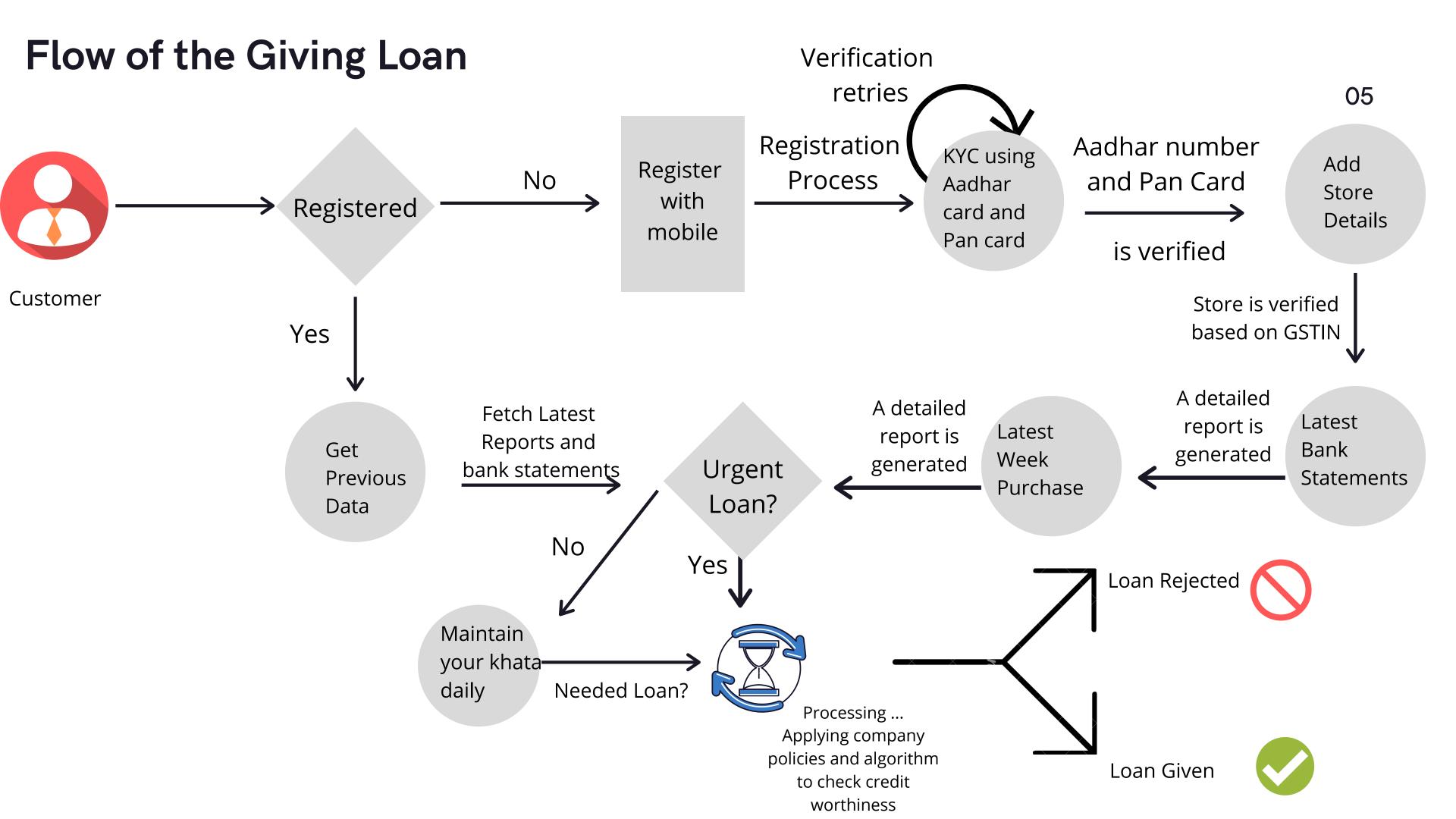
Physical assets

Any assets which can be guaranteed by the applicant.

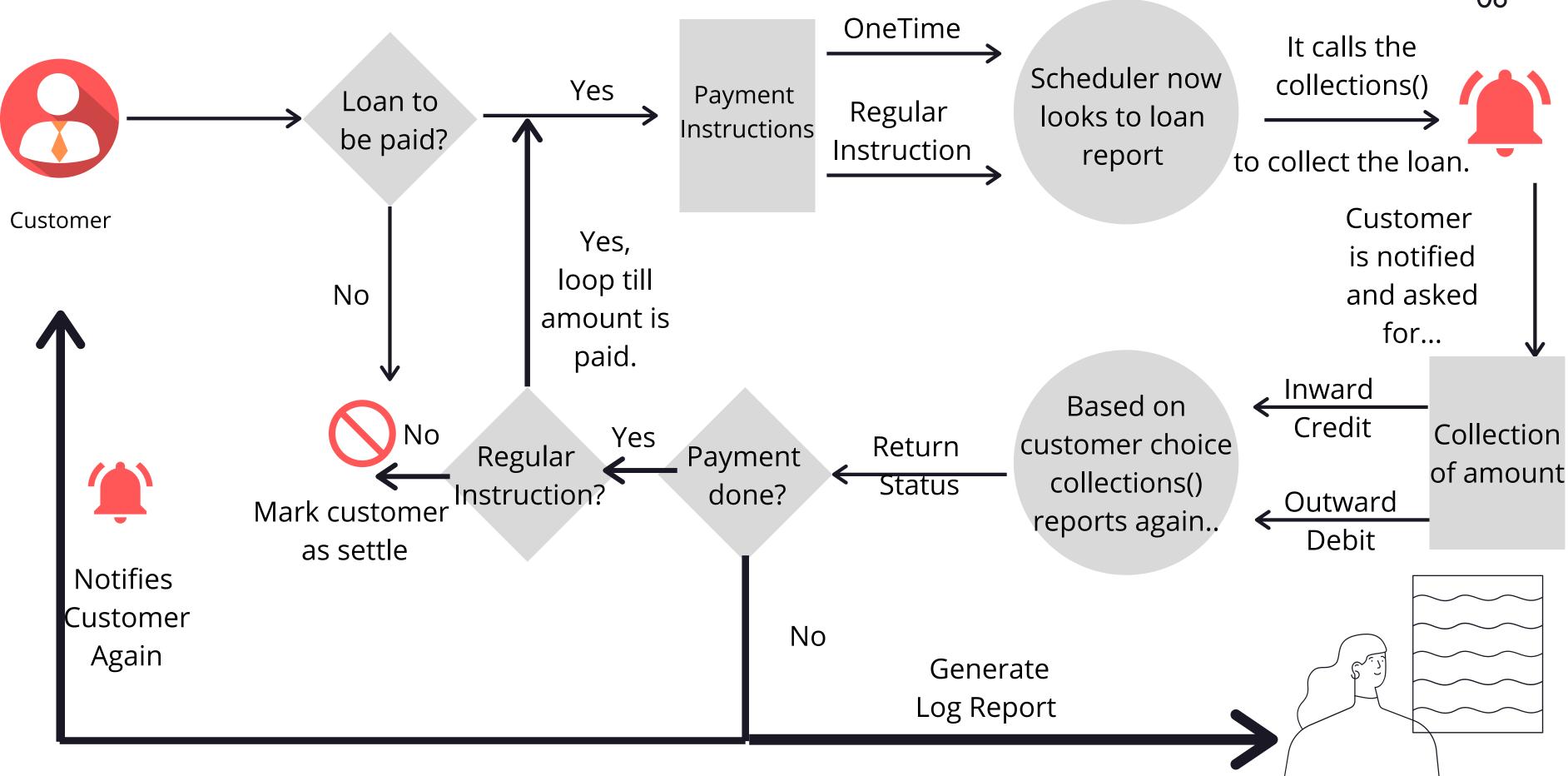
Guarantor

Can ask a person to guarantee the applicant for the amount of loan on basis of guarantors income.

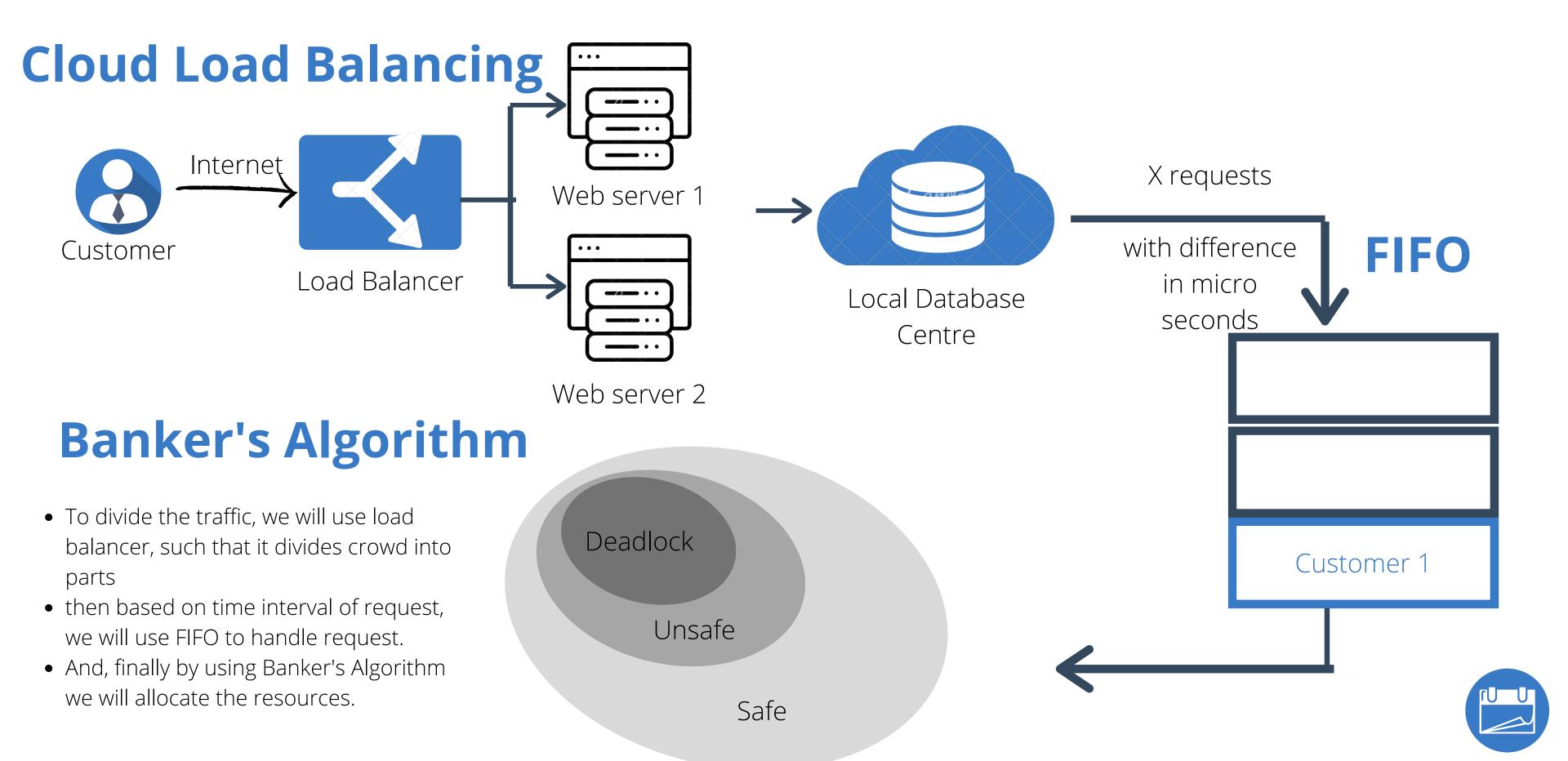


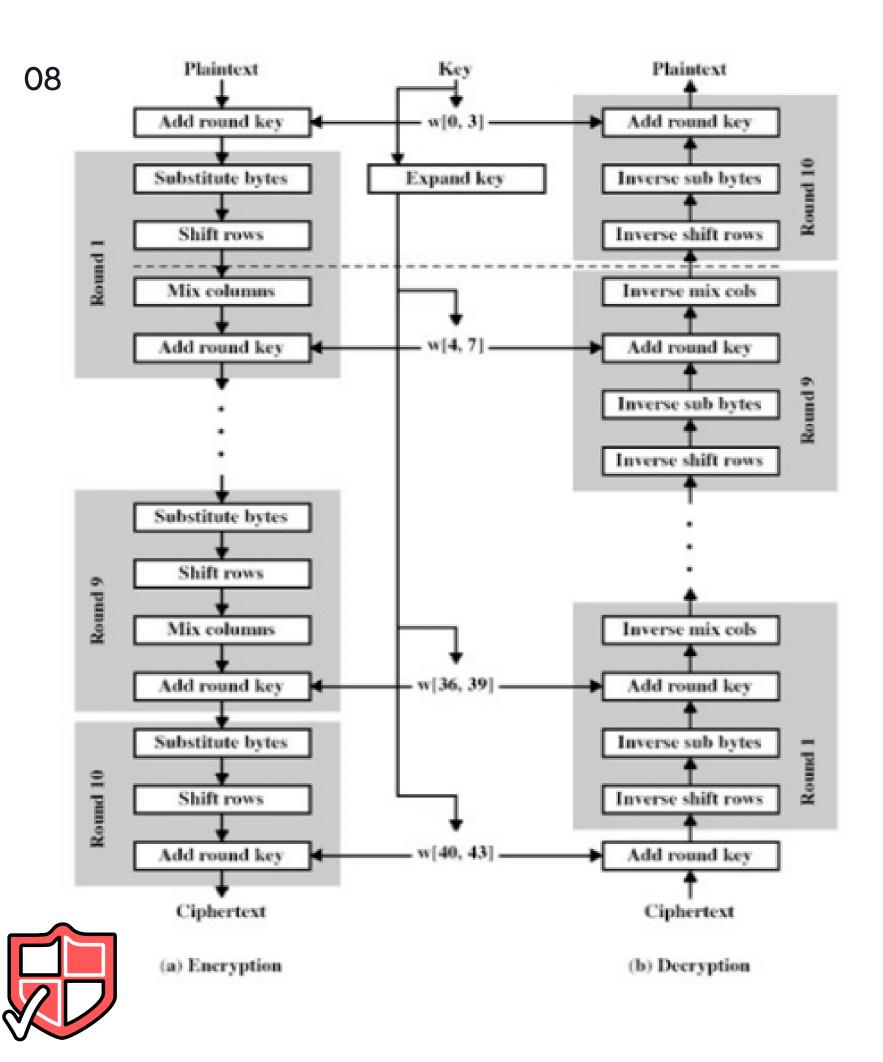


Flow of the Clearing and Settlements



SCHEDULING





DATA SECURITY

Advanced Encryption Standard

Since Security is a major concern, while clearing and settlement, we decided to use **AES**.

Pseudo code

```
byte[4,4] State;
copy input[] into State[]
AddRoundKey
for (round = 1; round < Nr-1; ++round) {
  SubBytes
  ShiftRows
  MixColumns
  AddRoundKey
SubBytes
ShiftRows
AddRoundKey
copy State∏ to output∏
```

Cipher(byte[] input, byte[] output) {

Mark you