# Aadhar Hackathon 2021

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**Team name – block-eternals**

# Update Aadhar address

without any Proof of Address (POA)

# What is Blockchain?

A blockchain is essentially a digital ledger of transactions that is duplicated and distributed across the entire network of computer systems on the blockchain. It is a system of recording information in a way that makes it difficult or near to impossible to change, hack, or cheat the system.

The Blockchain technology offers great potential to foster various sectors with its unique combination of characteristics like decentralisation, immutability, and transparency.

Our proposed solution uses Blockchain technology to tackle this problem in a secure way. We can request the landlord to lend his address via the Blockchain, hence giving access to the resident to his address.

# **Technology Stack**

1. react-js & Material-UI Library for frontend
2. Google Firebase to store user metadata
3. Aadhar API's
   – Aadhar Captcha Generation API
   – Captcha Validation and OTP Generation API
   – Aadhar eKYC API
4. IPFS (Inter Planetary File System) API to store user eKYC on a decentralised network

# Steps involved in updating

1. Registration of Owner
2. Registration of Tenant
3. Requesting Owner's address
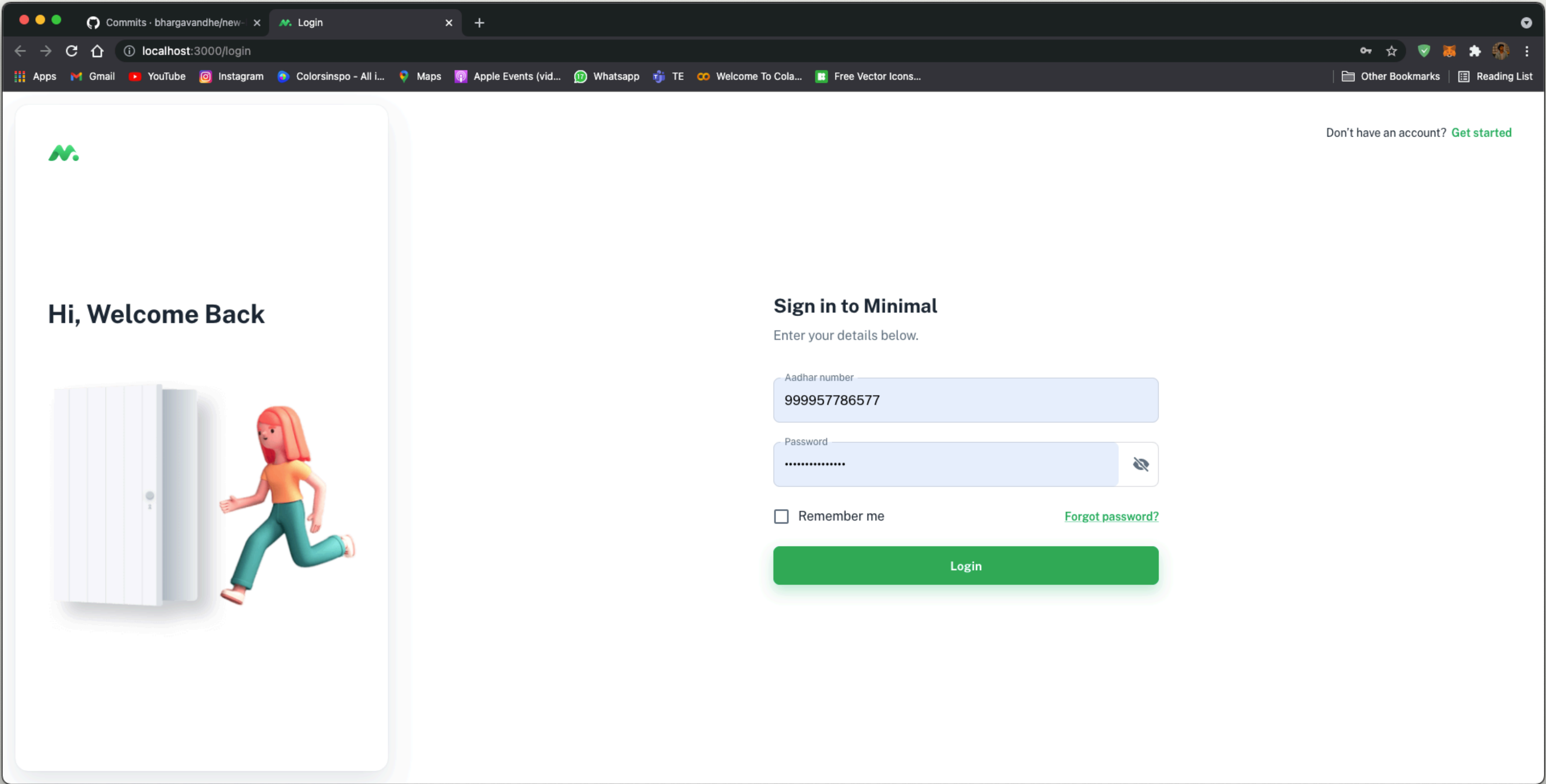4. Making appropriate changes to Owner's address
5. Updating the Tenant's address

- Attractive and modern UI design.
- Simple to use with minimum data entry.
- Fully encrypted and decentralised.
- Maintainable logs.
- Notification support.
- Privacy is maintained.
- Low bandwidth usage.
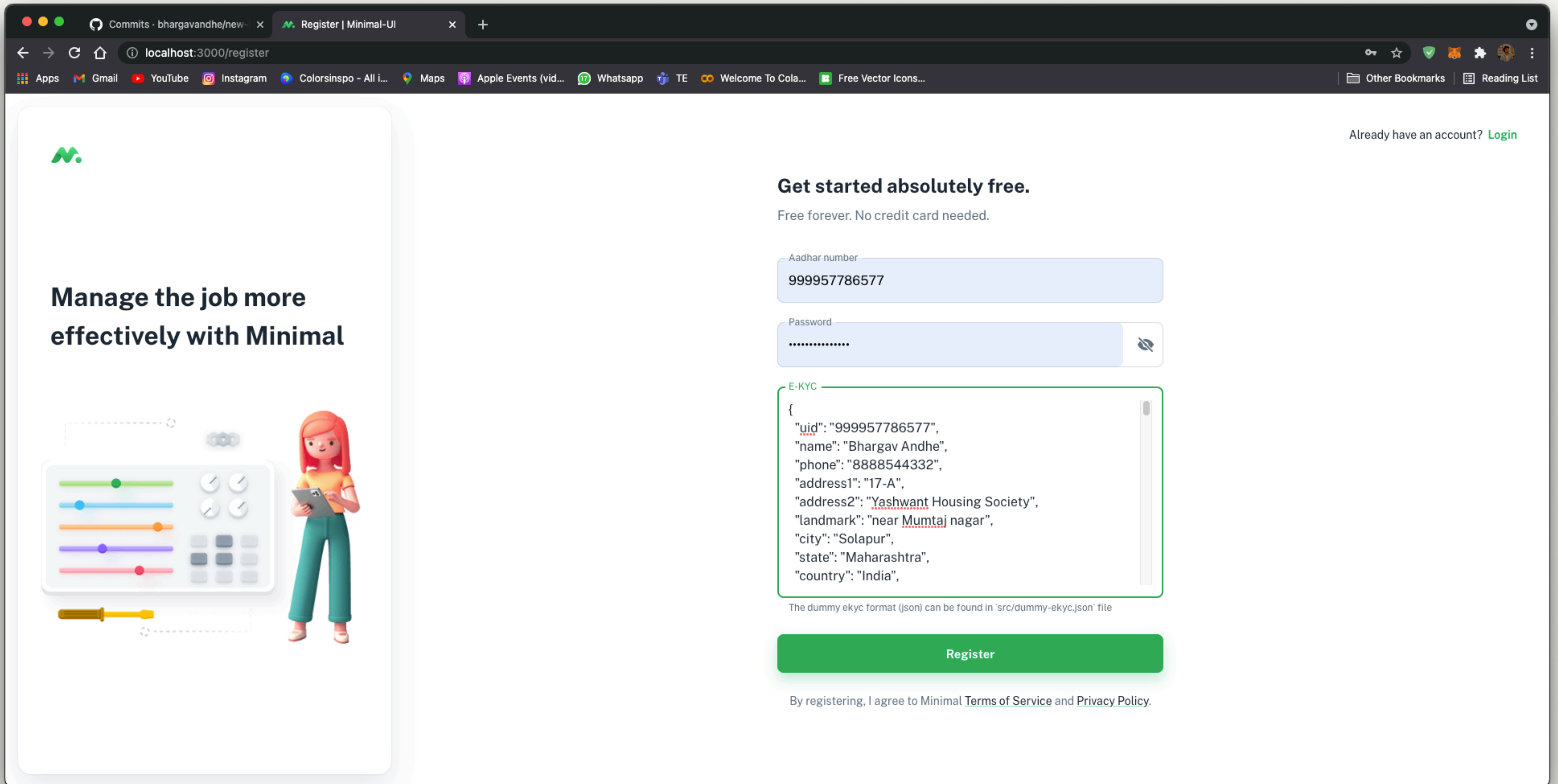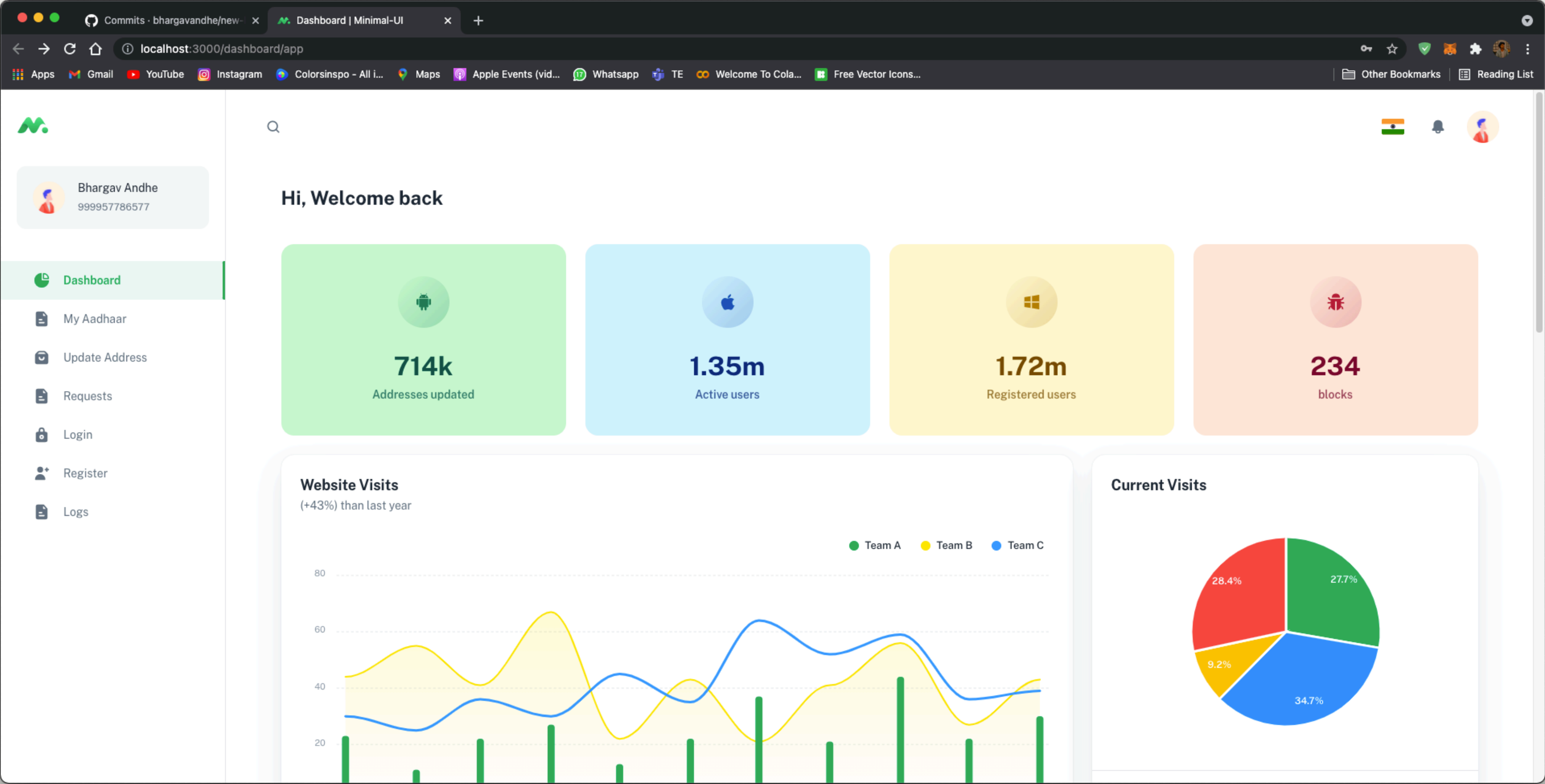- Secured by cryptography.

# Key points

# Future Scope

- Entend support to multiple Android and iOS devices.
- Creating a single platform powered by Blockchain to store digital identity.
- Role based Access in database.
- Better integration with existing Aadhar API's.
- Multi-language support to further extend the service.
- Integration of and interactive chatbot for a better experience.
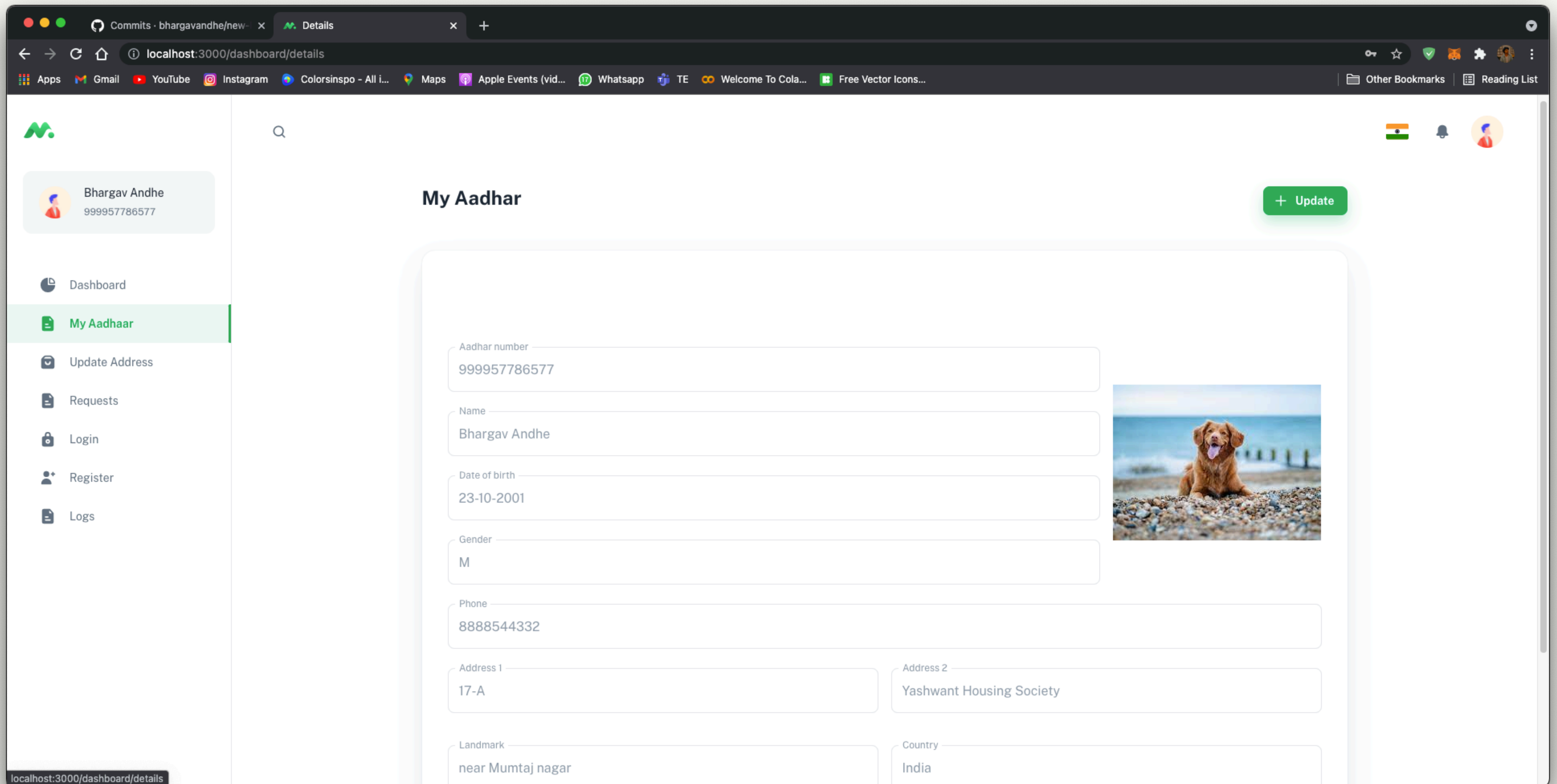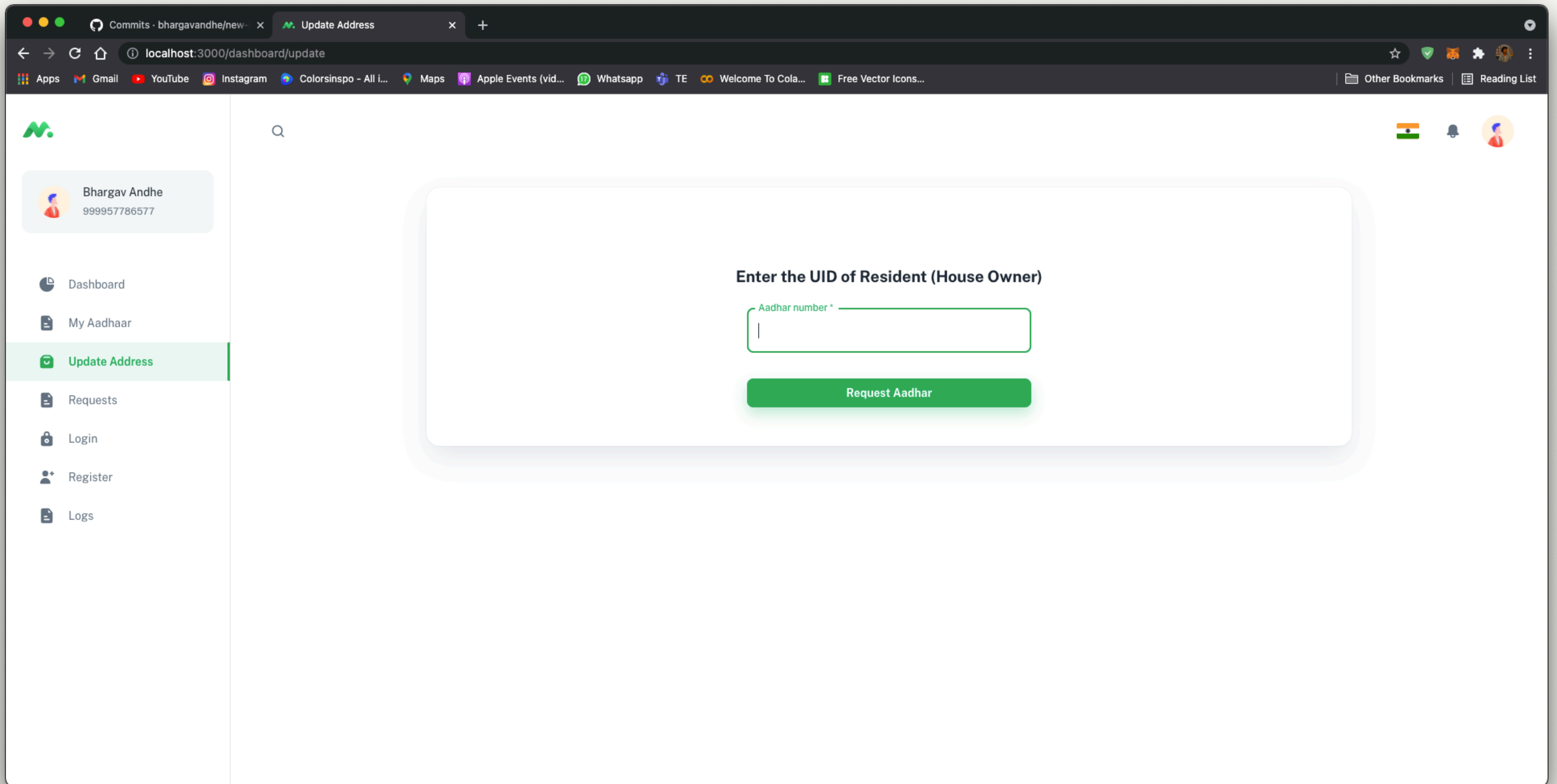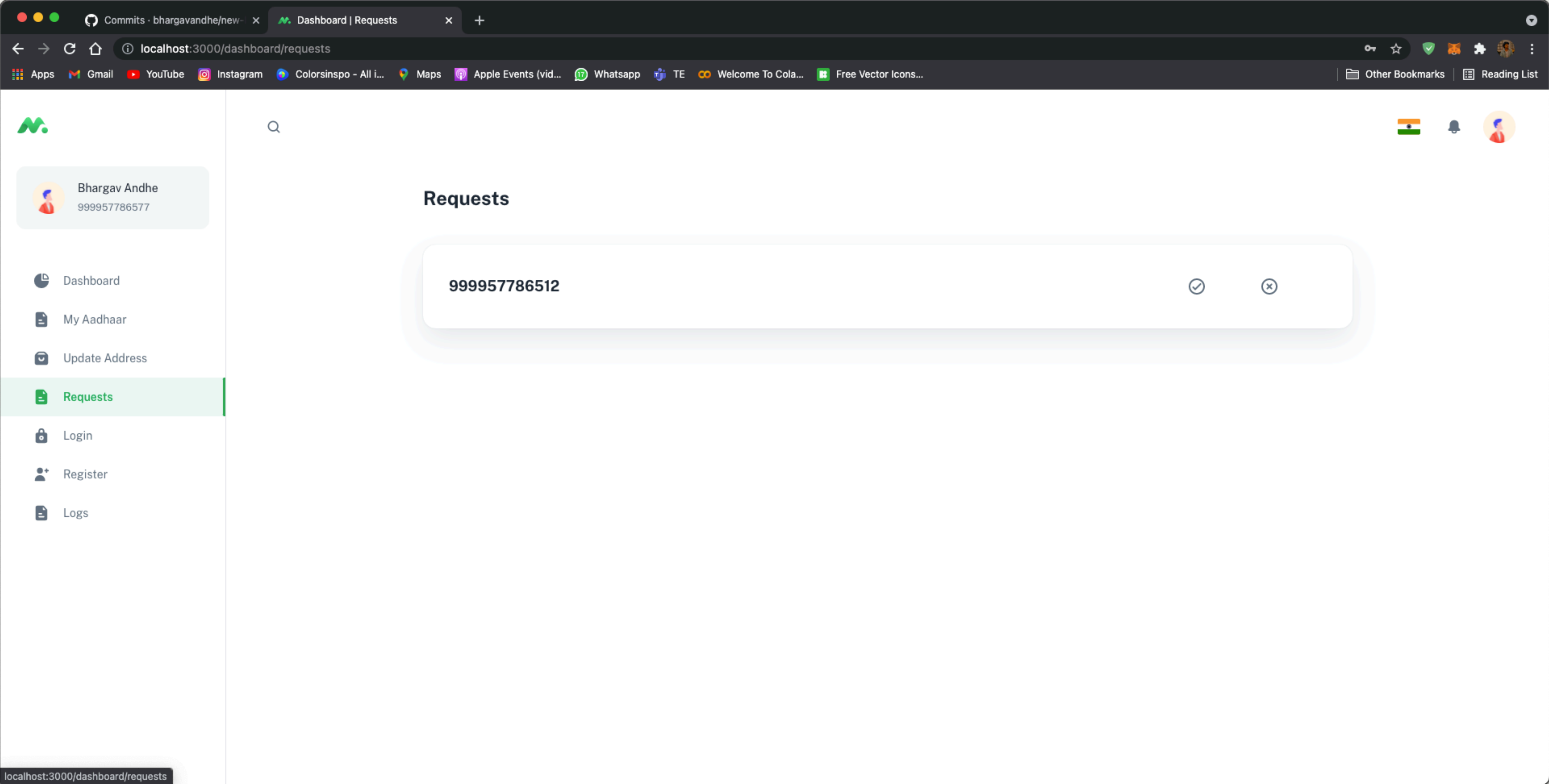
# Screenshots of working website



Login Page

localhost:3000/register

Already have an account? Login

# Get started absolutely free.

Free forever. No credit card needed.

Aadhar number

999957786577

Password

••••••••••••••

E-KYC

```
{
  "uid": "999957786577",
  "name": "Bhargav Andhe",
  "phone": "8888544332",
  "address1": "17-A",
  "address2": "Yashwant Housing Society",
  "landmark": "near Mumtaj nagar",
  "city": "Solapur",
  "state": "Maharashtra",
  "country": "India",
```

The dummy ekyc format (json) can be found in `src/dummy-ekyc.json` file

**Register**

By registering, I agree to Minimal Terms of Service and Privacy Policy.

## Manage the job more effectively with Minimal

User Registration

localhost:3000/dashboard/app

**Bhargav Andhe**
999957786577

Dashboard

My Aadhaar

Update Address

Requests

Login

Register

Logs

# Hi, Welcome back

**714k**
Addresses updated

**1.35m**
Active users

**1.72m**
Registered users

**234**
blocks

## Website Visits
(+43%) than last year

Team A    Team B    Team C

80

60

40

20

## Current Visits

27.7%

28.4%

34.7%

9.2%

Dashboard

My Aadhar

Update address page

Requests Page

User logs

PUSH Notifications