APRIL
12-14
36 HOURS
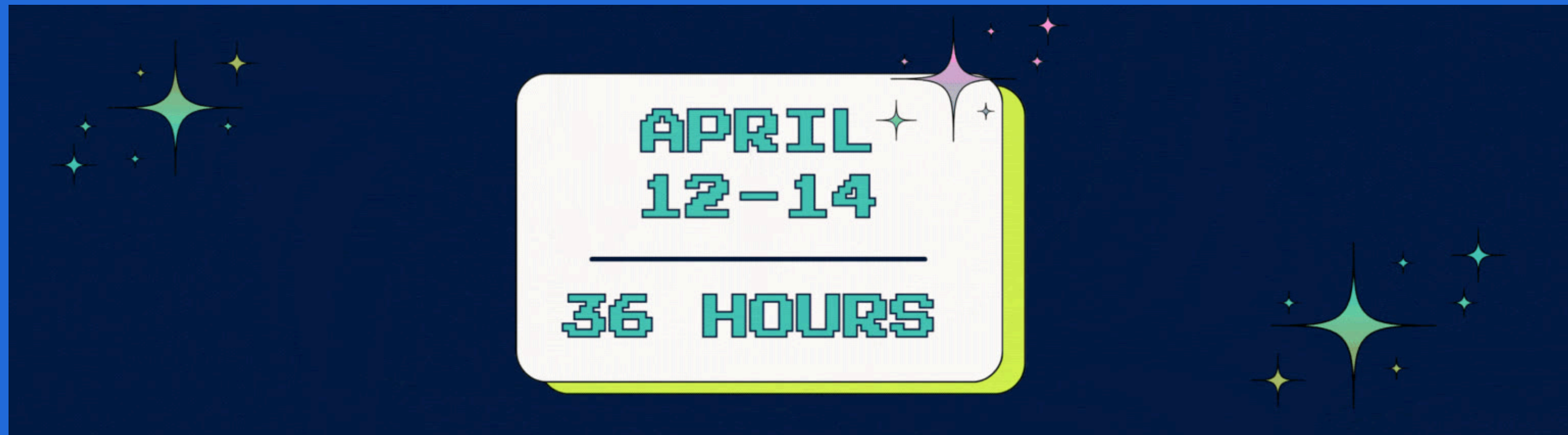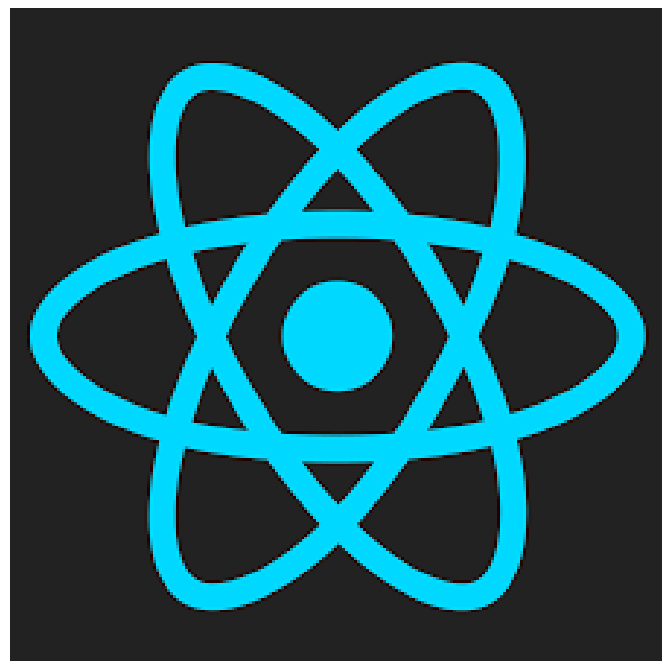
HackRush '24
E Gate
[Software Development]

TECH STACK

React + Vite Node JS Firebase

A modern and well supported tech stack to ensure future compatibility and stability

20% faster
Vite vs Webpack

221k
React Stars on Github

Over 46669
Comoanies use Firebase

Feature Set

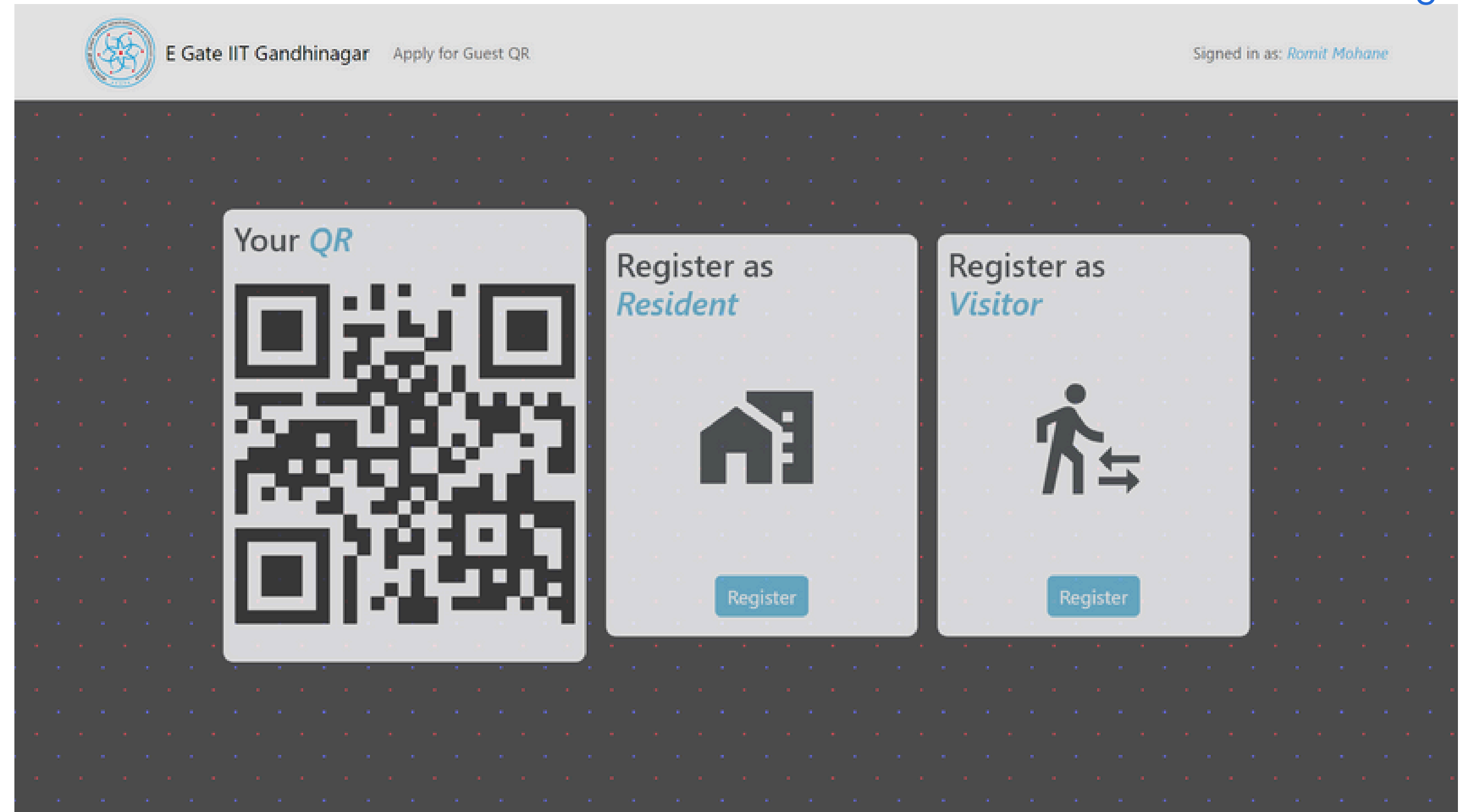**01** **Quickly Accessible QR code**

02 **Register as a Resident of the campus**

03 **Register as a Visitor to the campus**

04 **Responsive Design enabling Ease of Use**

E Gate IIT Gandhinagar   Apply for Guest QR

Signed in as: *Romit Mohane*

Your *QR*

Register as *Resident*

Register

Register as *Visitor*

Register

Feature Set

The Admin Dashboard

01 Quickly Accessible Numbers

02 Notifications when QR of visitors get expired

03 Can have charts and more tables for visualization

E Gate IIT Gandhinagar

Logout

Admin Panel

In Campus: 5   Out of Campus: 4   Expired: 3

Notifications

Name	Expiry Time	Email	Time checked in	Message
Romit Mohane	2024-04-14T03:08:00.000Z	romit.mohane01@gmail.com	2024-04-14T03:07:00.000Z	QR Code Expired, but user not checked out
Romit Mohane	2024-04-14T03:51:00.000Z	romit.mohane01@gmail.com	2024-04-14T03:50:00.000Z	QR Code Expired, but user not checked out

Logs

Name	Time checked in	Email	User Type	Entry/Exit	Purpose
Romit Mohane	2024-04-14T03:50:15.141Z	romit.mohane01@gmail.com	visitor	In Campus	enjoiny
Romit Mohane	2024-04-14T03:07:56.779Z	romit.mohane01@gmail.com	visitor	In Campus	enjoying scenary
Romit Mohane	2024-04-14T03:02:47.007Z	23110279@iitgn.ac.in	student	In Campus	
Romit Mohane	2024-04-14T01:32:59.799Z	romit.mohane01@gmail.com	visitor	In Campus	

Simple and easy to use scanning system for security personnel

Protected by ID and Password

Only Authorized Personnel are allowed to scan QRs and view individual's information.
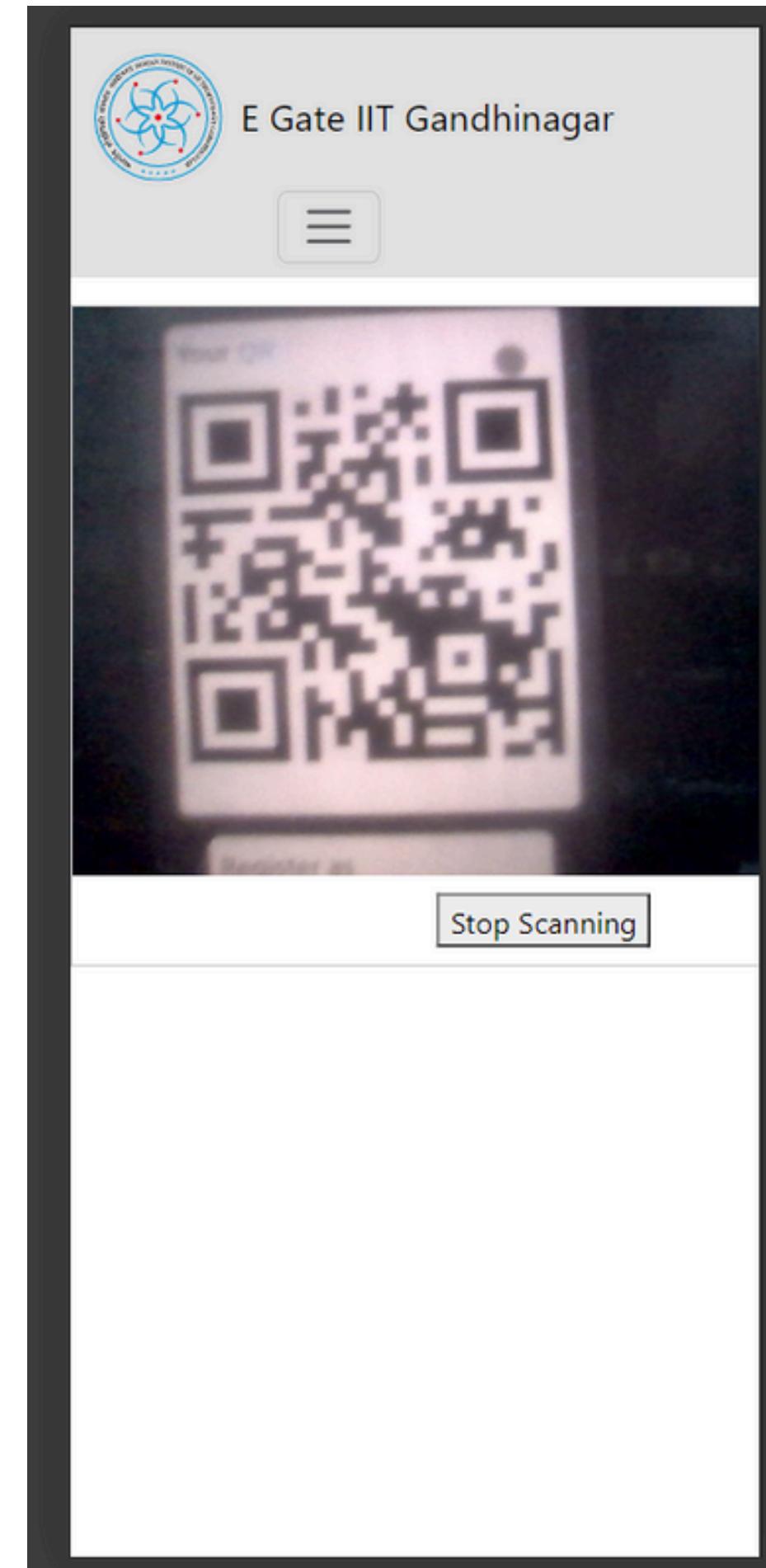
Keeps log of the Scans

We can see when people leave the campus and when they enter.
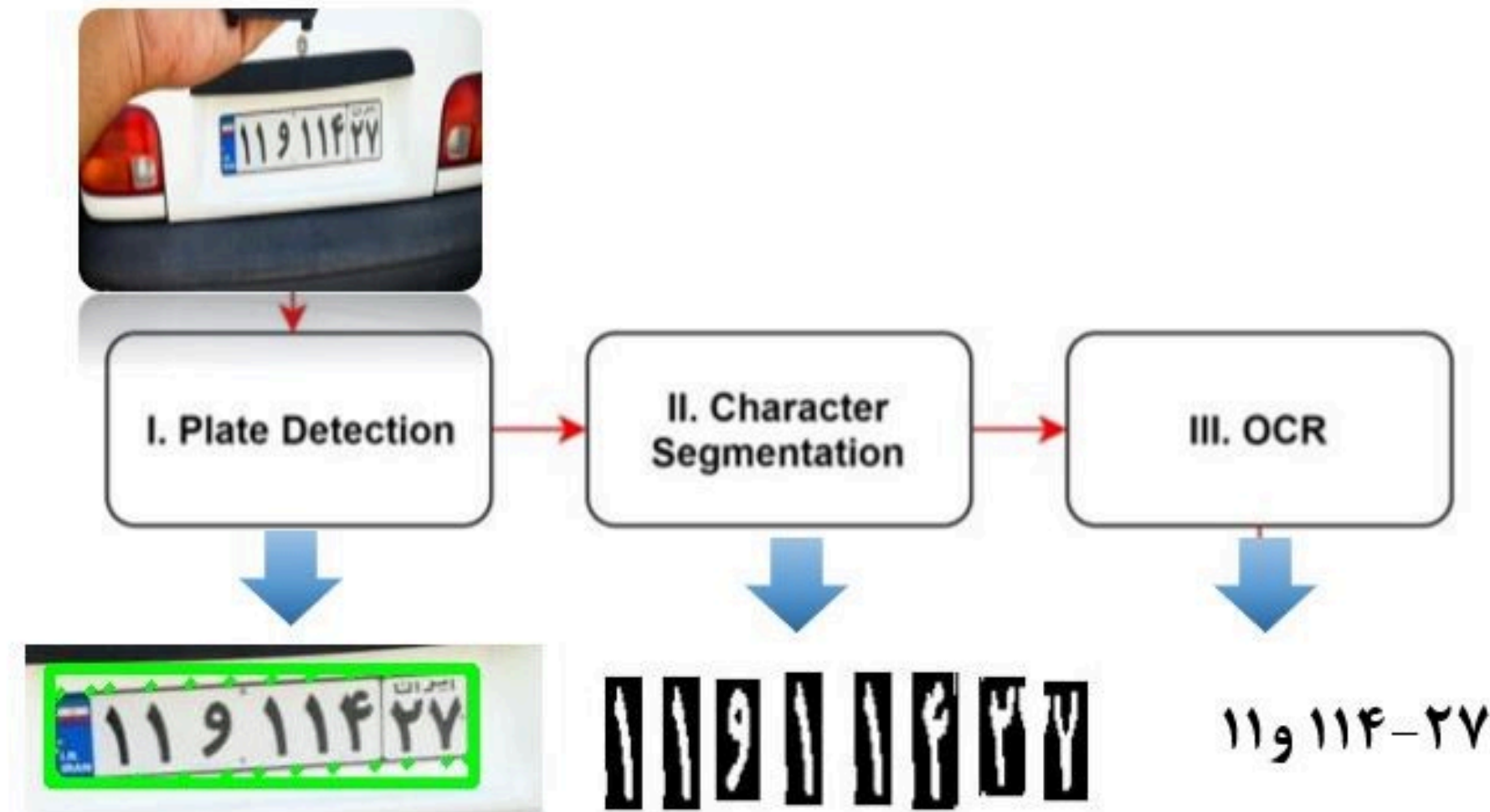
Gives Info about the individual after scan

Enables the security personnel to verify the persons identity, by cross verifying the profile photo, names, etc.

Easing Transportation by automatic Number plate recording

Integrated in the same screen as QR scanner (Security Personnel only)

I. Plate Detection → II. Character Segmentation → III. OCR

Will keep log of which vehicle enters and exits the campus and also the students seated inside

Will eliminate the hassle faced by taxi drivers of filling the form every time they enter

Guest QRs Application

Residents can apply for getting temporary QRs for their guests
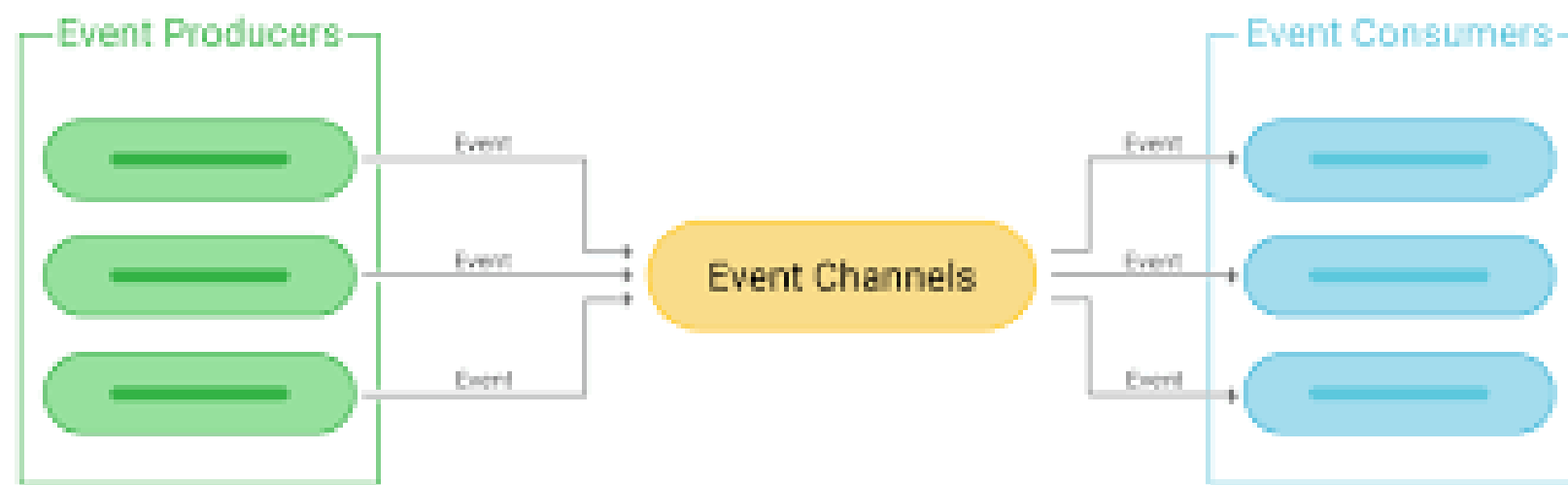
VIP Guests

✔ Can be applied by Faculty members, will offer faster approvals
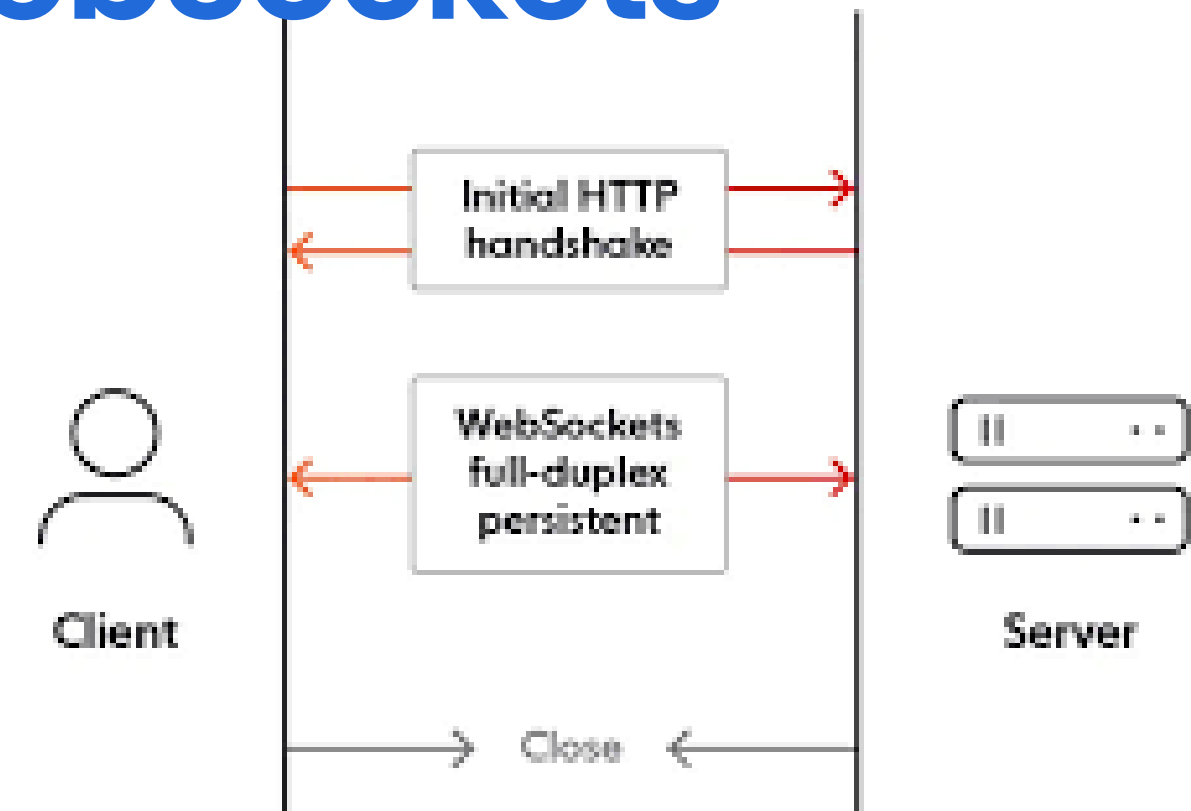
Regular Guests

✔ Can be applied by students at the campus

Real Time Updates via Event Driven Architecture and WebSockets

Event Driven Architecture

Enables Scalability and Modularity

Web Sockets

Will enable real time updates.