

# V6IT ACCESS CONTROL SYSTEM

## CONTENT NOTE

### **Objective**

To develop an access control system code name the V6IT System which would use picture recognition for gated Estates, Offices, Houses and other public places. The system is expected to capture images of visitor(s) at the gate, send same to the user for approval or denial of access.

### **The system**

The access control system (V6IT) is thought out to revolutionize security and visitor's management within gated Estates, Offices, Restricted communities and such other places and it is to employ cutting-edge picture recognition technology, the system seamlessly captures high-resolution images of visitors at the entrance using strategically placed cameras. This images therefore undergoes processing and recognition, ensuring accurate identification of the individuals. The user then receives instantaneous notifications containing the captured visitor image(s). This then allows the user with real time information to make informed decisions about granting or denying access or any other customize information. This systems put control directly for access or not in the hands of the user.

This system (V6IT) is expected to create a holistic solution that not only enhance security, but also streamline the access control process, creating a safer and more efficient environment for everyone.

Also the system should provide for Save Our Soul (SOS) in case of emergency.

## EXPECTED V6IT FEATURES

### List of all features and sub-features

#### Scope of work

##### a. Web + IOT device

S/N	TASK	SUB TASK	REMARKS
1	Authentication	<ul style="list-style-type: none"><li>• Signup/login</li><li>• Forgot password</li><li>• Role assign</li><li>• Role management during login</li></ul>	
2	Visitor image capture	<ul style="list-style-type: none"><li>• Install cameras at the gate to capture images of visitors</li></ul>	
3	Image processing and recognition	<ul style="list-style-type: none"><li>• Implement image recognition algorithms to analyze and identify faces in the captured images.</li></ul>	
4	Notification system	<ul style="list-style-type: none"><li>• Send notifications to residents containing the captured images of visitors (Real time)</li></ul>	
5	Resident response interface	<ul style="list-style-type: none"><li>• Create a user interface for residents to view visitor imagers and decide whether to grant or deny access or given a customize response.</li></ul>	
6	Access control integration	<ul style="list-style-type: none"><li>• Integrate the system with the estate's office or other location access control mechanisms to allow or deny entry based on resident response</li></ul>	
7	Database management	<ul style="list-style-type: none"><li>• Store and manage resident profiles, visitor data, and access logs.</li></ul>	
8	Mobile application (PWA)	<ul style="list-style-type: none"><li>• Develop a mobile app for residents to receive notifications and manage access control remotely.</li></ul>	
9	Audit trail implementation	<ul style="list-style-type: none"><li>• Integrate and audit trail system to log and monitor activities of visitors within the access control system.</li></ul>	

## b. Task

S/N	TASK	DETAIL	REMARKS
1	Login/Signup	Users will register on to the application with following details <ul style="list-style-type: none"> <li>• Name</li> <li>• Email/password</li> <li>• Address</li> </ul>	
2	Forgot password	Users will be able to reset their password on this screen	
3	Home screen	Users will be able to see the list of requests of visitors. It will show a card view with the visitor's images and some short detail.	
4	Visitor detail screen	Users will be able to allow, deny access or customize message	
5	Notification list screen	Users will be able to see the list of notifications. They will receive notifications whenever there will be a new visitor wanting to enter the premises. The process will be initiated by the gatekeeper	
6	Live view & chat features	The user will be able to view the gate area through live streaming via the installed camera. He/she can also talk with the gatekeeper via installed mic and speaker with camera	
7	Profile screen	User's profile can be viewed here	
8	Edit profile	Users can edit their profile here	
9	Setting screen	Users will be able to see the miscellaneous options: <ul style="list-style-type: none"> <li>• Contact us</li> <li>• Terms &amp; conditions</li> <li>• Privacy policy</li> <li>• Logout</li> </ul>	

**NOTE:** These are general idea at the moment, it can be modified and other features integrated where necessary.

Also, Artificial Intelligence relevant too(s) can be integrated to ensure maximum usage and benefit of the system of the user(s).

Feel free to modify accordingly.