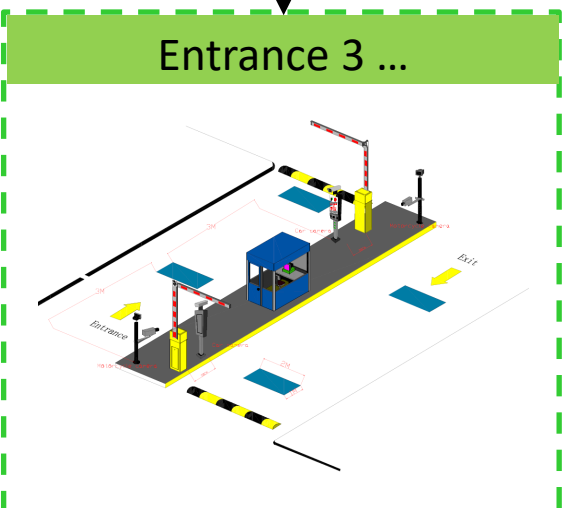
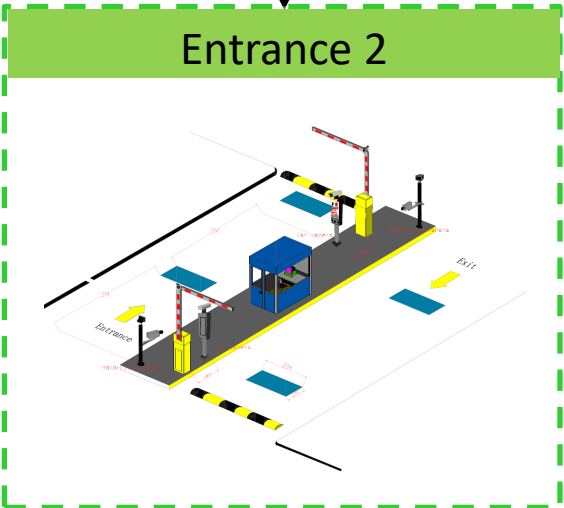
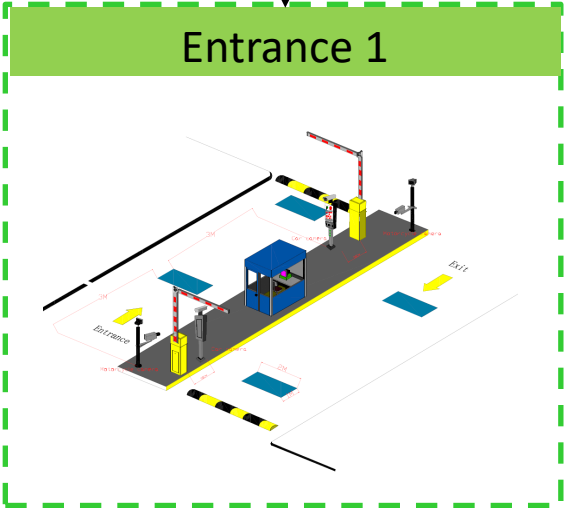


Licensed Plate Recognition System

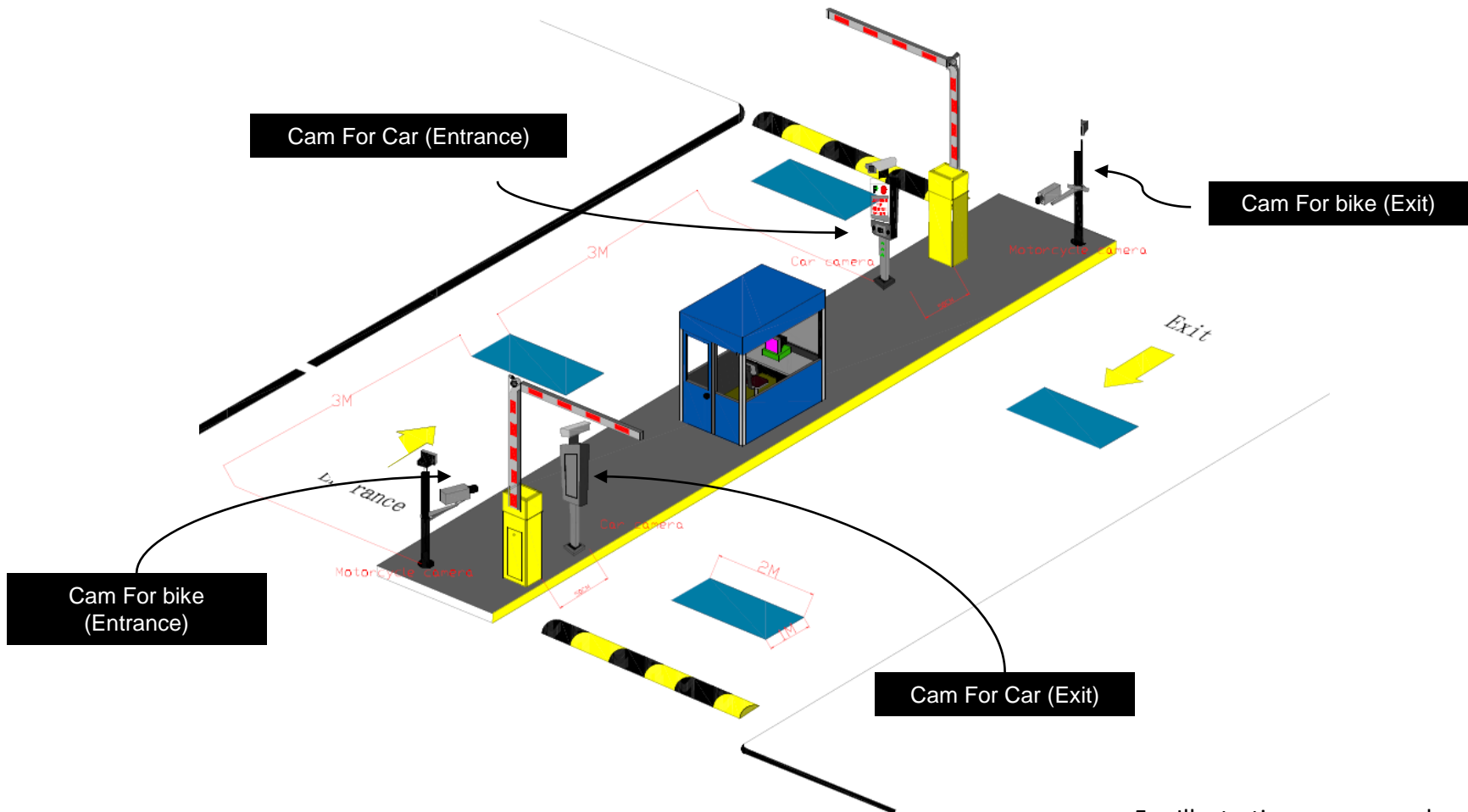
**Vehicular Entrance & Exit Control
For Visitor and Staff**

Centralised Server Control Management

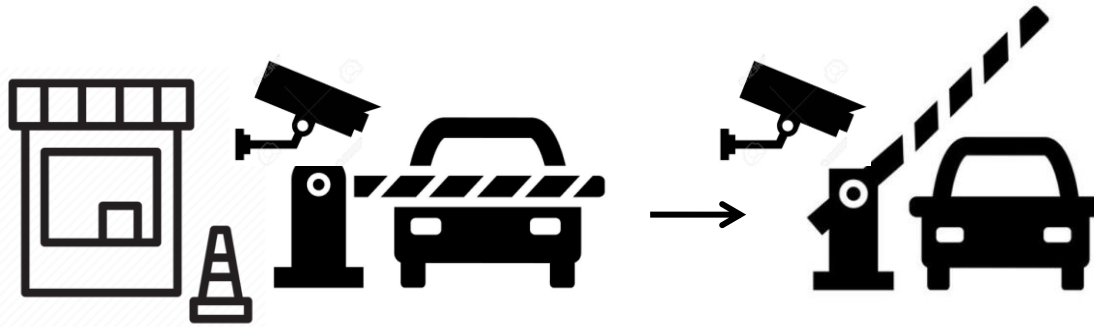


For Illustration purpose only
Actual layout may differ

- Minimum 2 cameras (one per lane)
- Additional 2 cameras (for motorbike) (two per lane)

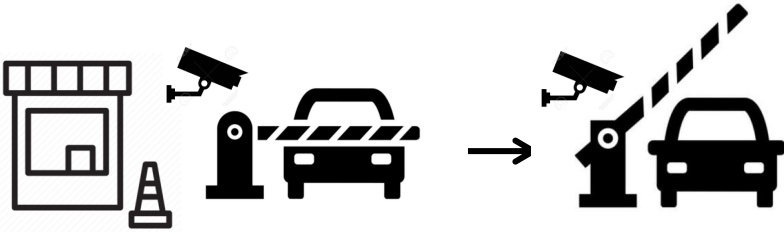


For long term vehicle



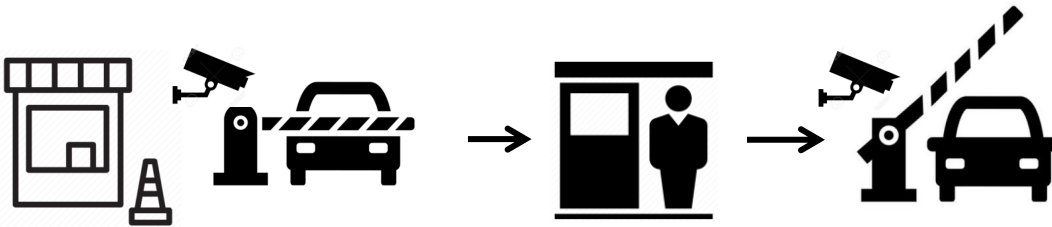
1. Resident/staff drives in/out
2. Open barrier automatically

Option 1: Appointment only



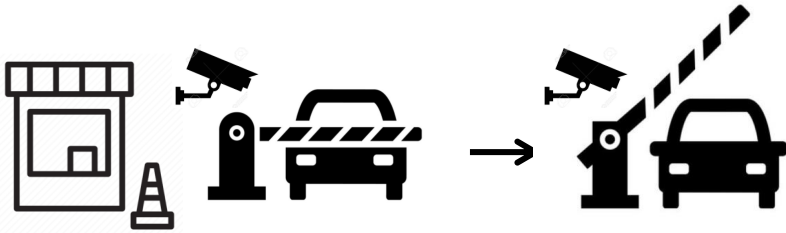
1. Visitor drives in
2. Open barrier automatically

Option 2: For Appointment or Walk-in



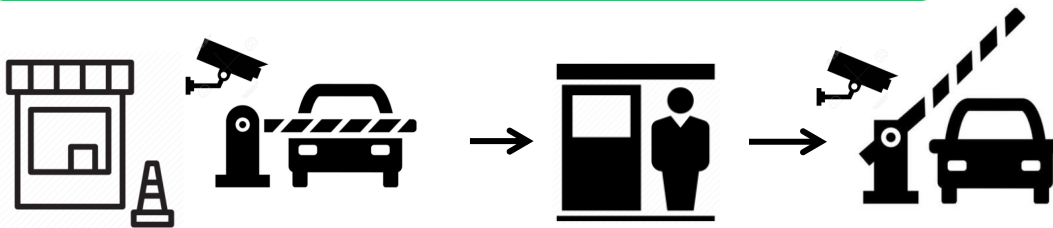
1. Visitor drives in
2. Security guard verifies/registers visitor using mobile device/computer
3. Open barrier upon completion of registration

Option 1: For all visitors – Direct exit



1. Visitor drives out
2. Open barrier automatically

Option 2: For all visitors – Verified by security



1. Visitor drives out
2. Security guard verifies visitor using mobile device/computer
3. Open barrier upon completion of verification

VMS+LPR Software Architecture

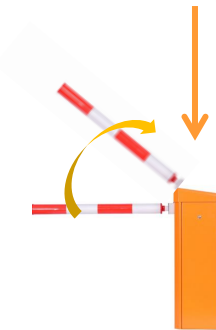


Terminal Devices

Vehicle Drives In

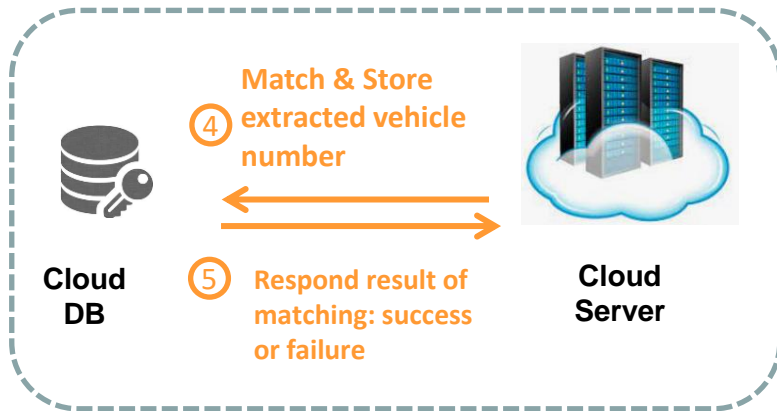


② Vehicle plate images are taken by camera



⑦ Send dry contact signal to barrier

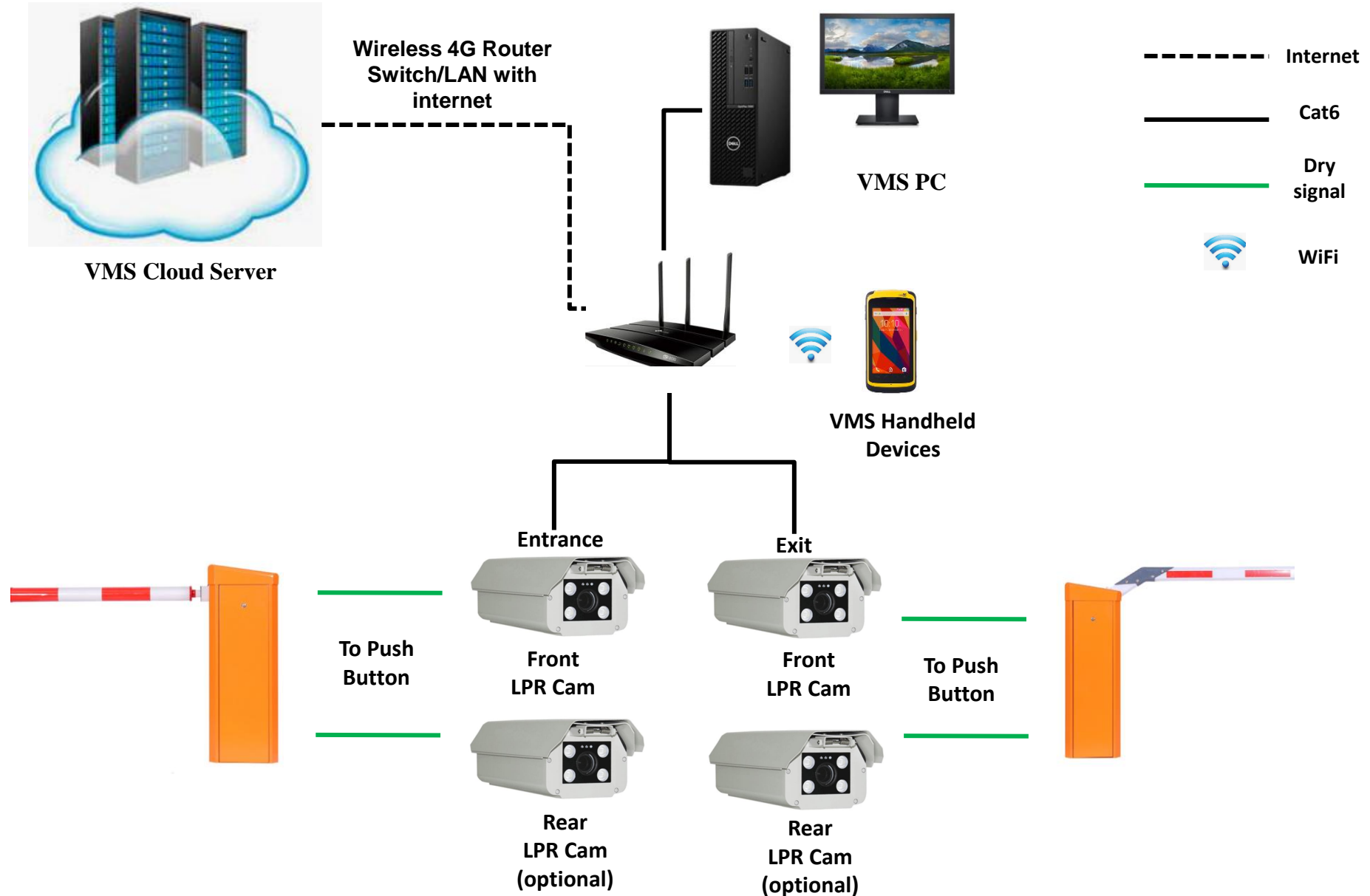
① Register Visitor Vehicle Number through Mobile APP/web page (if not pre-registered)



③ Upload result to server

⑥ Trigger camera to open barrier if result is success

Network Connection Diagram at Each Entrance

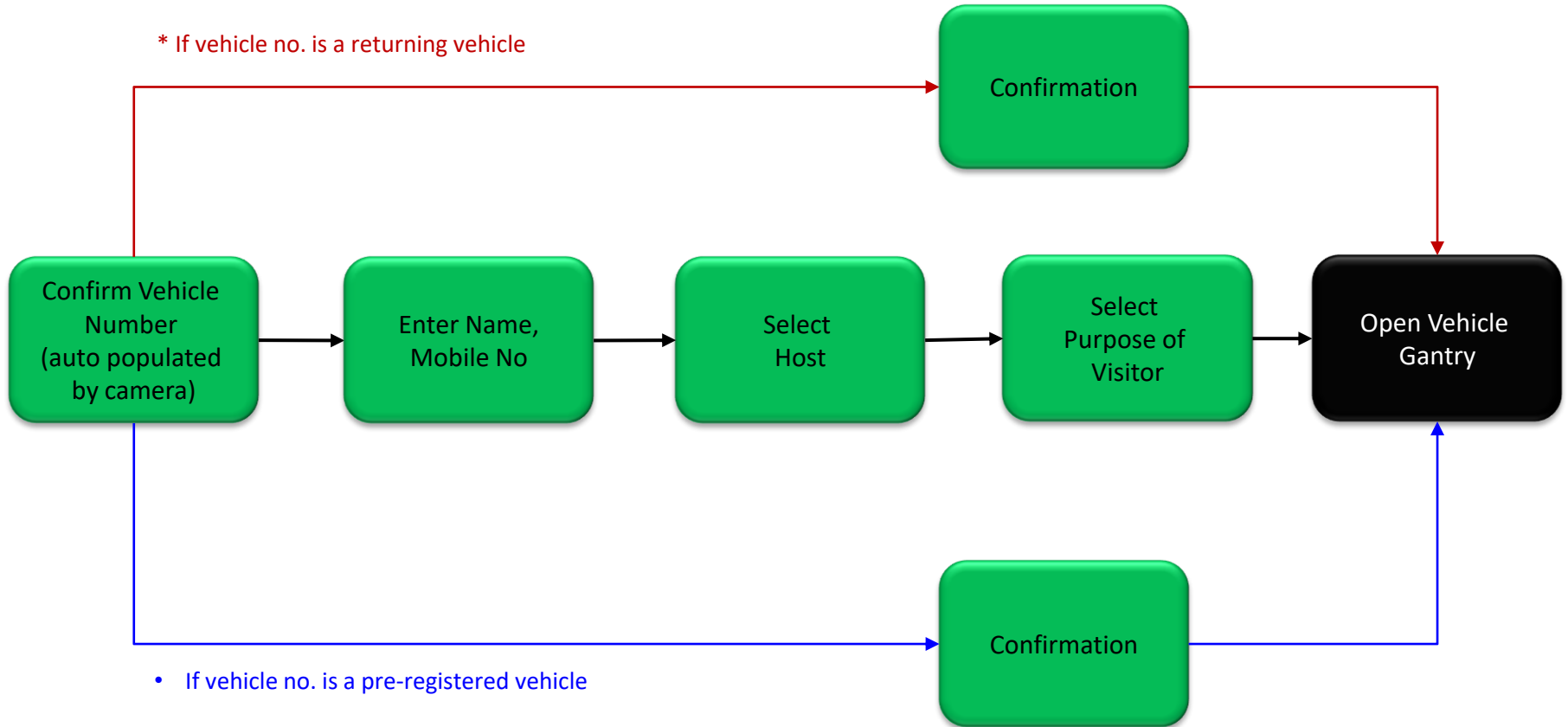


LPR Camera Specifications

- Sensor: Sony Starvis 1/2.8" CMOS
- Recognition Distance: 1-10meters
- Recognition Rate: 99% (include re-capture)
- Recognition at Speed: <30km/h
- Trigger: Video Stream or Loop sensor
- Interface: HTTP Post
- Camera Lens: 2.8-12mm
- Zoom Distance: 2-10meters
- Resolution: 1920*1080
- Record: Centralised server
- Countries: South East Asia
- Operating Temperature: <45°C



Registration Workflow








- Pre-registered
- Walk in (on-the-spot)
- Returning/repeated



- Support multiple IoT terminal devices (LPR cam)
- Real-time signal detection

Terminal


New Terminal +


Device Status	Property	Unit	Door Name	Model	Terminal Name	Serial Number	Action
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
● 07/05/2022 11:46 AM	South Gantry		South Entrance	Leego LPR	South_INCAM	18:02:00:05:AF:AF	 
● 07/05/2022 11:46 AM	South Gantry		South Entrance	Leego LPR	SOUTH_OUTCAM	18:02:00:05:B0:28	 

- Data is consolidated in web portal
- Filter by unit/vehicle no./time/date/location/event/status
- Export to excel by clicking the download icon
- Download vehicle image

Vehicle Monitoring

Detected Vehicle






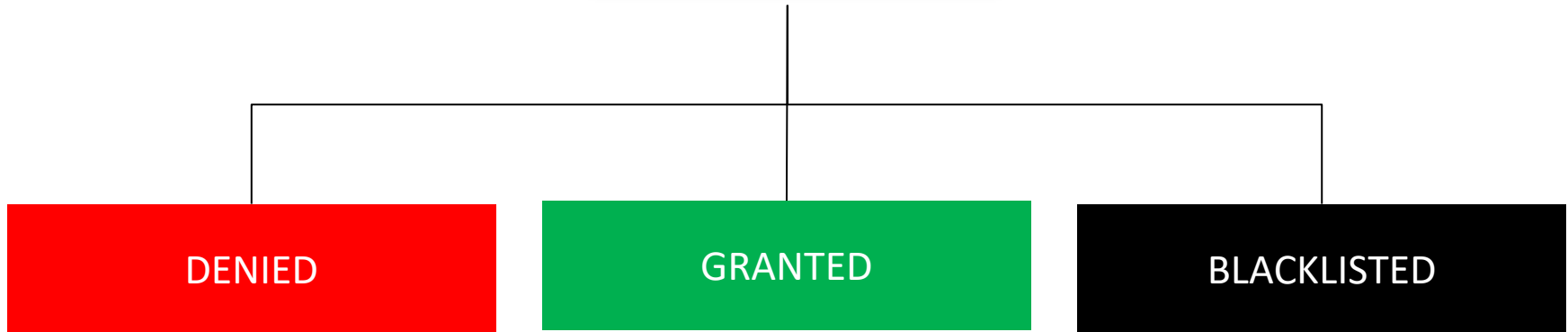
SHD8570C

07 May 2022

10:47:28



Type	Property	Unit	Vehicle No.	Name	Entrance	Terminal	Date & Time	Event	Status
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="DD/MM/YYYY - DD/MM/YYYY"/>	<input type="text"/>	<input type="text"/>
▶ Visitor	South Gantry		SHD8570C		South Entrance	South_INCAM	07 May 2022 10:47:28	IN	Denied
▶ Visitor	South Gantry		SJH2195Y		South Entrance	South_INCAM	07 May 2022 10:47:22	IN	Denied
▶ Visitor	South Gantry		SHD308Y		South Entrance	South_INCAM	07 May 2022 10:47:18	IN	Denied
▶ Visitor	South Gantry		GBC6286M		South Entrance	South_INCAM	07 May 2022 10:47:12	IN	Denied
▶ Visitor	South Gantry		SHC1011B		South Entrance	South_INCAM	07 May 2022 10:47:05	IN	Denied
▶ Visitor	South Gantry		SMR6002G		South Entrance	SOUTH_OUT...	07 May 2022 10:46:49	OUT	Denied
▶ Visitor	South Gantry		SLM1755M		South Entrance	SOUTH_OUT...	07 May 2022 10:46:41	OUT	Denied
▶ Visitor	South Gantry		SGQ68H		South Entrance	SOUTH_OUT...	07 May 2022 10:45:43	OUT	Denied
▶ Visitor	South Gantry		SLN5393S		South Entrance	South_INCAM	07 May 2022 10:45:36	IN	Denied



Whitelisted Vehicles Entry

- Admin to enter whitelisted plates (resident/staff/long term)
- Auto download to cameras

Whitelisted Vehicle

Basic Info

South Gantry | SBA1234A

THE OCEANFRONT | 01/05/2022 | 07:00 AM

Lee Zhi Kang | 31/12/2025 | 11:59 PM

Upload | Add

Vehicle No.	Start Date Time	End Date Time	Active	Action
SBA1234A	01/05/2022 07:00 AM	31/12/2025 11:59 PM	<input checked="" type="checkbox"/>	

- Admin to enter blacklisted plates
- Auto send email notification upon detection of blacklisted plates

Blacklist

Basic Info

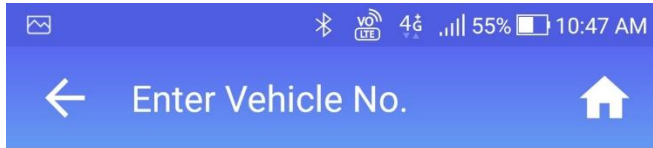
South Gantry | THE OCEANFRONT

Email + 65 - Mobile No.

ID No. | Vehicle No.

Remarks | Upload | Add

Email	Mobile No.	ID No.	Vehicle No.	Pre-registration	Quick Access	Active	Action
	65 - 99995555	123A	SBA1234A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	



SHD8570C 

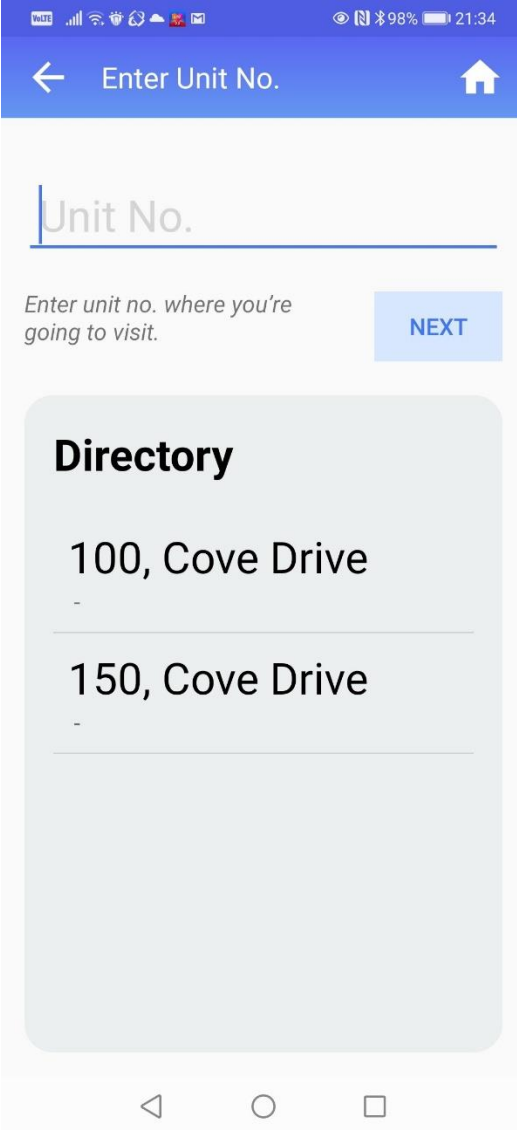
Confirm detected plate number.

NEXT

Last Checked In :



- Vehicle number will be auto populated by LPR



Enter Unit No.

Unit No.

Enter unit no. where you're going to visit.

NEXT

Directory

100, Cove Drive
-

150, Cove Drive
-

- Select visiting unit
- All unit no. will be populated to security
- Search by keyword

On-the-spot Registration: Select Purpose of Visit

11:13 AM 47% 4G VoLTE

← Select Purpose →

Purpose

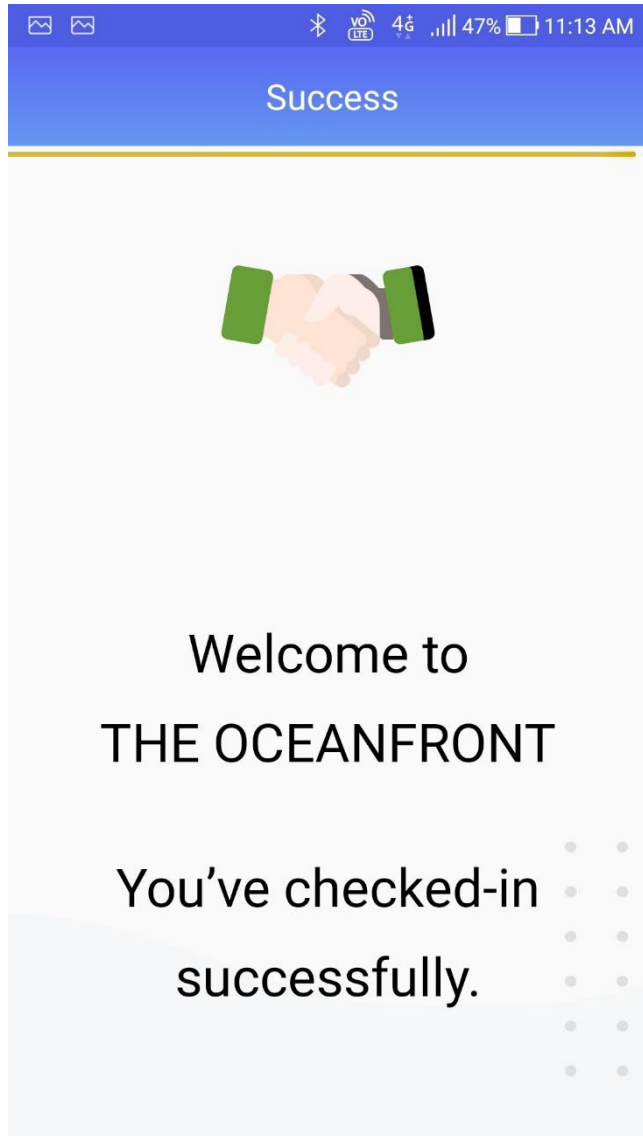
Enter purpose of visit.

NEXT

Selection

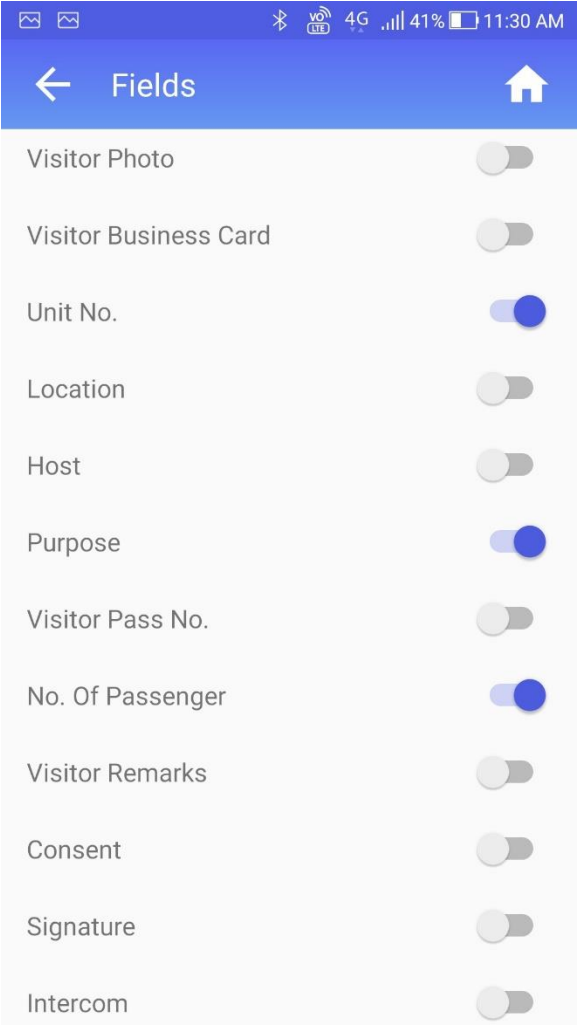
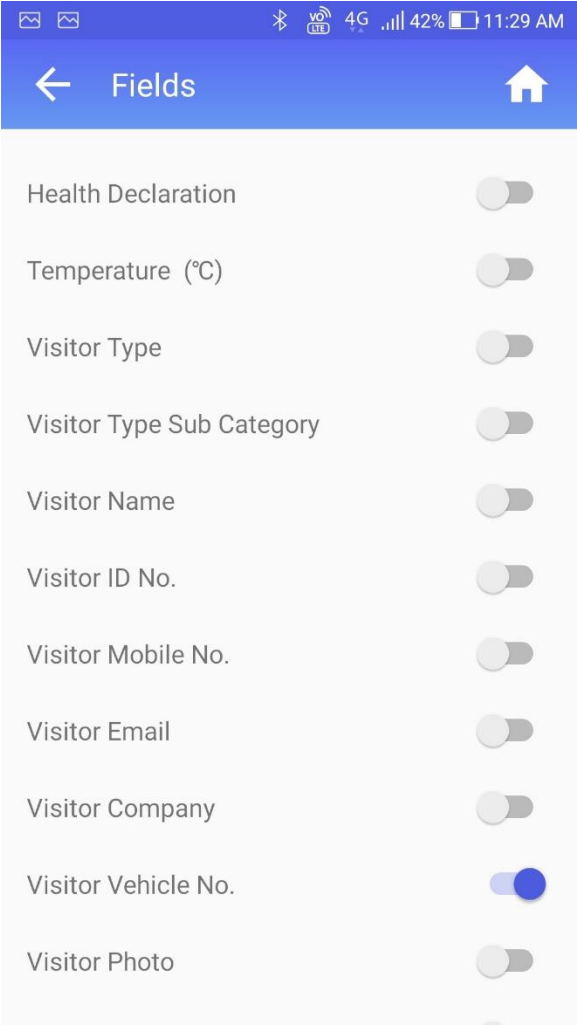
- Contractor/Services
- Delivery
- Drop-off
- Pick-up
- Visiting

- Select purpose of visit or manually enter for any purposes
- Pre-defined purpose of visitor to speed up registration

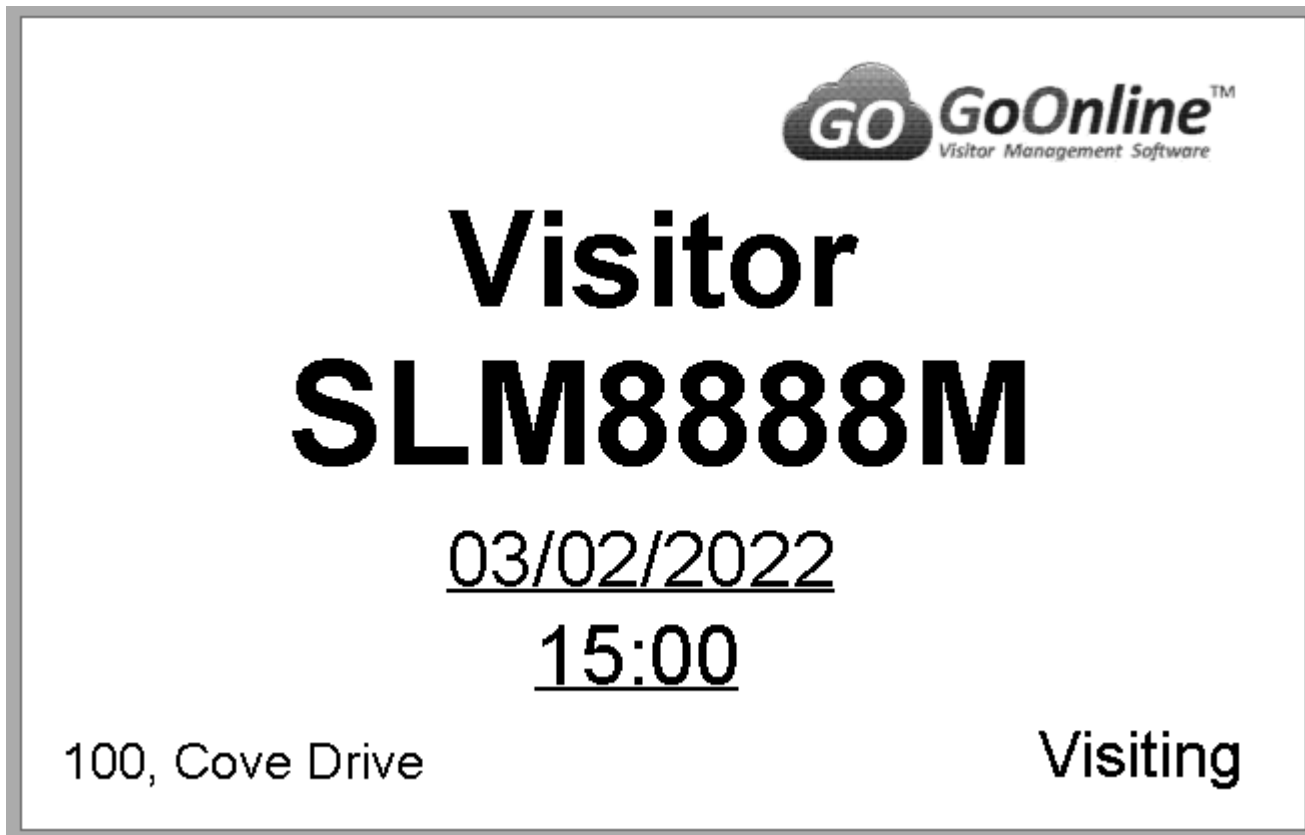


- Auto open barrier by software upon successful check in

■ Friendly field setting



- To be placed on top of Dashboard
- Visible and neat
- Printed purpose of visit and visiting unit



- Weekly and Daily setting

☰ < Edit Schedule

📍 Ubi Techpark

👤 Team A

📅 29/03/2021

📍 Leego Solutions Pte Ltd

Status

📅 To 31/12/2021

Remarks

Week Setting

From	To	<input type="checkbox"/>
29/03/2021	04/04/2021	<input checked="" type="checkbox"/>
05/04/2021	11/04/2021	<input checked="" type="checkbox"/>
12/04/2021	18/04/2021	<input checked="" type="checkbox"/>
19/04/2021	25/04/2021	<input checked="" type="checkbox"/>
26/04/2021	02/05/2021	<input checked="" type="checkbox"/>
03/05/2021	09/05/2021	<input checked="" type="checkbox"/>
10/05/2021	16/05/2021	<input checked="" type="checkbox"/>
17/05/2021	23/05/2021	<input checked="" type="checkbox"/>
24/05/2021	30/05/2021	<input checked="" type="checkbox"/>
31/05/2021	06/06/2021	<input checked="" type="checkbox"/>
07/06/2021	13/06/2021	<input checked="" type="checkbox"/>
14/06/2021	20/06/2021	<input checked="" type="checkbox"/>
21/06/2021	27/06/2021	<input checked="" type="checkbox"/>
28/06/2021	04/07/2021	<input checked="" type="checkbox"/>
05/07/2021	11/07/2021	<input checked="" type="checkbox"/>
12/07/2021	18/07/2021	<input checked="" type="checkbox"/>
19/07/2021	25/07/2021	<input checked="" type="checkbox"/>
26/07/2021	01/08/2021	<input checked="" type="checkbox"/>
02/08/2021	08/08/2021	<input checked="" type="checkbox"/>

Day Setting

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
00:00 - 23:59	00:00 - 23:59	00:00 - 23:59	00:00 - 23:45	00:00 - 00:00	00:00 - 00:00	00:00 - 00:00

Know the **PAST**

Understand the **PRESENT**

Shape your **FUTURE**

