

AUTOMATED PARKING SYSTEM

PROJECT GROUP:
ITP2021_S2_B01_G03

"PARK
&
GO"

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- To provide a hassle free system for our customers to park their cars without wasting time at toll gates.
- Try and minimize traffic on the roads by providing shuttles for our customers to reach their desired destination.

**OUR
MISSION**

TECHNOLOGY USED: MERN

M – MongoDB

E – Express

R – React

N – Node.js



BENEFITS OF USING MERN :

- **COVERS COMPLETE WEB DEVELOPMENT CYCLE FROM FRONTEND TO BACKEND WITH JS**
- **SUPPORTS MVC ARCHITECTURE FOR A SMOOTH DEVELOPMENT PROCESS**
- **COMBINATION OF THE BEST TECHNOLOGIES – MONGODB, REACT, NODE.JS AND EXPRESS.JS**
- **NO NEED TO SPEND LOT OF**

DESCRIPTION



Functions :

- 1. MANAGE EMPLOYEES**
- 2. MANAGE SENSORS**
- 3. MANAGE EMPLOYEE SALARY**
- 4. MANAGE BOOKINGS**
- 5. MANAGE REGISTERED CUSTOMERS**
- 6. MANAGE TICKETING SYSTEM**
- 7. MANAGE TRANSPORTATION**
- 8. MANAGE SALES AND FINANCE**



Function 1 : MANAGE EMPLOYEES

C - Add new employees to system

R - View details of all employees

U - Update details of employees

D - Delete employees from system



Function 2 - MANAGE SENSORS

C - Add new sensors to the system

R - View details about implemented sensors

U - Update details about sensors

D - Delete out-of-order sensors from the system



Function 3 – MANAGE EMPLOYEE SALARY

C – Insert salary details of new employees

R – View summary of salary payments

U – Update salary details

D – Delete salary details of employees



Function 4 – MANAGE BOOKINGS

- C – Create new booking for registered customers
- R – View details about bookings
- U – Update booking details
- D – Delete bookings



Function 5 – MANAGE REGISTERED CUSTOMERS

C – Create new user accounts for
registered customers

R – View customer details from accounts

U – Update customer details

D – Delete customer accounts after
deactivation



Function 6 – MANAGE TICKETING SYSTEM

C – Insert details of walk-in customers

R – View details of walk-in customers

U – Update time slot in ticket

D – Delete details of walk-in customer



Function 7 - MANAGE TRANSPORTATION

C - Add new bus details and routes

R - View report of all hired buses

U - Update bus routes and availability

D - Delete bus details and routes



Function 8 – MANAGE SALES AND FINANCE

C – Add or create new financial reports

R – View financial reports

U – Update financial reports

D – Delete financial reports



SUMMARY :

TOPIC :

Automated
Parking System -
"PARK & GO"

TECH :

MERN
Technology

FUNCTIONS :

1. manage employees
2. manage sensors
3. manage employee salary
4. manage bookings
5. manage registered customers
6. manage ticketing system
7. manage transportation
8. manage sales and finance

The image features a solid red background. A large, thin white circle is centered on the page. In the top right and bottom left corners, there are partial views of white circles, suggesting a larger pattern or a design element. The text "THANK YOU !" is written in a white, sans-serif, uppercase font, centered within the large white circle.

THANK YOU !