KALASALINGAM
ACADEMY OF RESEARCH AND EDUCATION
(DEEMED TO BE UNIVERSITY)
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PARKING MANGENMENT SYSTEM

B.Tech – Review Section Name : A12

Project Team Members :-

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INTRODUCTION

- Parking management is in such a way that manage all the functions of parking vehicles
- A car parking system refers to a specialized infrastructure designed to efficiently manage the parking of vehicles in a designated area or facility.
- It involves the use of various technologies, equipment, and strategies to optimize the utilization of parking spaces and enhance the overall parking experience.

OBJECTIVES OF THE PROJECT

- The main objective is to make parking in a organized and simple way.
- To minimize the recording errors and amount issues after or before parking.
- Growing urbanization and increasing vehicle ownership have led to the demand for parking spaces.

Advantages

- Efficient Space Utilization: A parking management program helps optimize parking space utilization.
- This reduces the time spent searching for available spots, leading to better space utilization and improved overall parking efficiency.
- By reducing the time spent searching for parking spots, drivers can minimize fuel consumption and emissions.
- Enhanced Security and Safety: Parking management programs incorporate various security features that enhance the safety of users and their vehicles.

- Mention the concepts applied.

- **Keywords:** def, , is, in, items, while

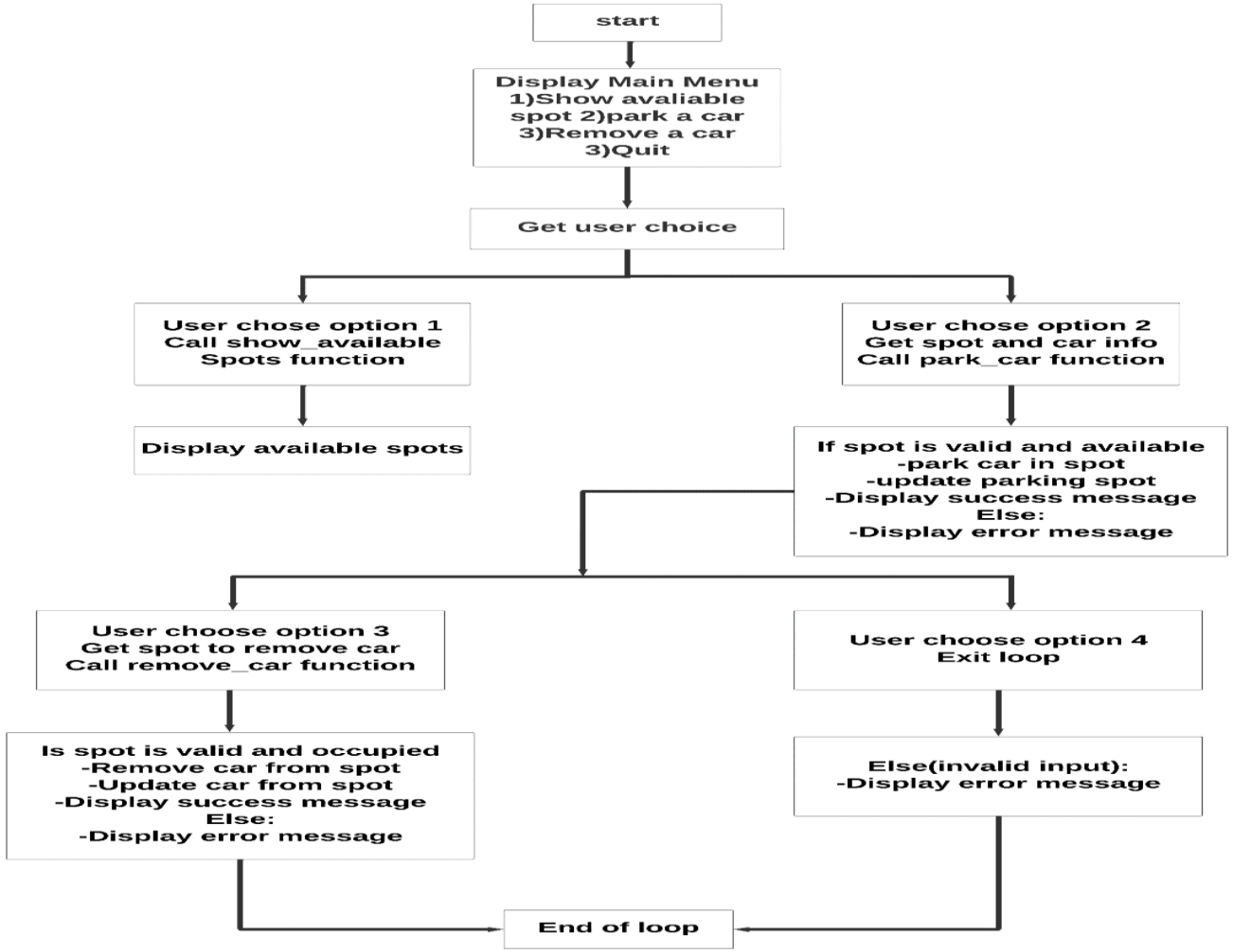
- **Functions:** show_available_spots, park_car, remove_car, input, print

- **Control Statements:** if, else, elif , break,

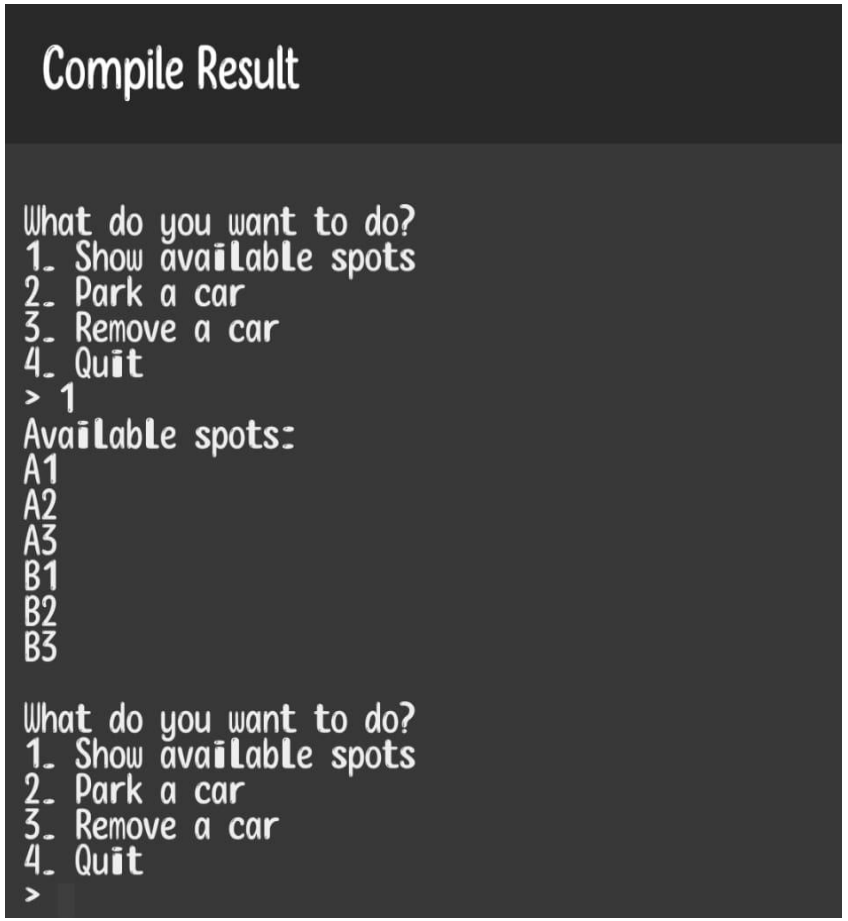
OPERATIONS/FEATURES

1. **Show available spots:** This operation displays all the parking spots that are currently available for parking.
2. **Park a car:** This operation allows the user to park a car by providing the spot and car's registration number. If the spot is available, the car is parked in that spot.
3. **Remove a car:** This operation allows the user to remove a car from a specific parking spot. The user needs to provide the spot from which the car should be removed. If a car is parked in the specified spot, it will be removed.
4. **Quit:** This operation allows the user to exit the parking system and end the program.

Overview (Flowchart) for the Project



IMPLEMENTATION SCREENSHOTS



IMPLEMENTATION SCREENSHOTS

Compile Result

```
1. Show available spots
2. Park a car
3. Remove a car
4. Quit
> 1
Available spots:
A1
A2
A3
B1
B2
B3

What do you want to do?
1. Show available spots
2. Park a car
3. Remove a car
4. Quit
> 2
Enter the spot: A1
Enter the car's registration number: AP29CB000
9
AP29CB0009 has been parked at A1.

What do you want to do?
1. Show available spots
2. Park a car
3. Remove a car
4. Quit
>
```

Compile Result

```
B1
B2
B3

What do you want to do?
1. Show available spots
2. Park a car
3. Remove a car
4. Quit
> 2
Enter the spot: A1
Enter the car's registration number: AP29CB000
9
AP29CB0009 has been parked at A1.

What do you want to do?
1. Show available spots
2. Park a car
3. Remove a car
4. Quit
> 3
Enter the spot: A1
AP29CB0009 has left A1.

What do you want to do?
1. Show available spots
2. Park a car
3. Remove a car
4. Quit
>
```