



# PYTHON PARKING SYSTEM

~ SACHIN LOHAR

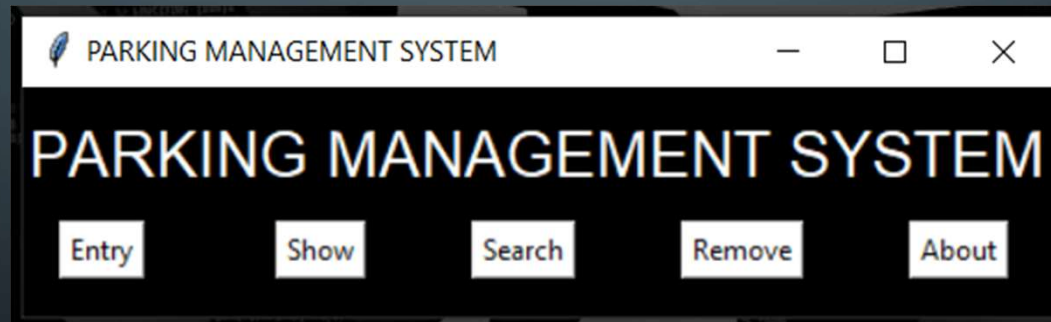
# INTRODUCTION

A smart vehicle parking system not only helps to look for parking but also saves time.

- It is an integrated form of parking system which can help with organization of vehicle in a more efficient way.
- The main problem with the existing parking system is that it cant tell how many slots are available for the parking in a parking space.
- The Increasing population, leads to a greater number of private vehicles which drastically increases the number of parking space needed. So, a proper parking management system is needed.

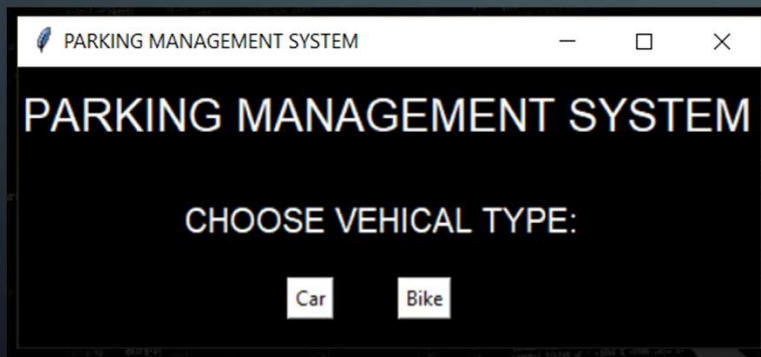
# MAIN WINDOW

Tkinter is used for creating a Graphical User Interface to how the output of the code with a better form of presentation. This window has 5 Options and 4 options for different operations.



# ENTRY WINDOW

Whenever a vehicle is added firstly it ask you the vehicle type then it asks you some information like Owners name, vehicle number and vehicle model number then the given details are stored in car.txt or bike.txt and it will give you a secret token code.

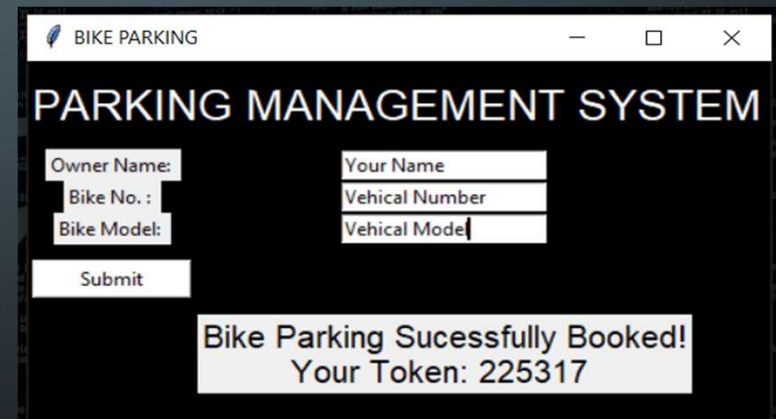


PARKING MANAGEMENT SYSTEM

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CHOOSE VEHICAL TYPE:

Car Bike



BIKE PARKING

PARKING MANAGEMENT SYSTEM

Owner Name: Your Name

Bike No. : Vehical Number

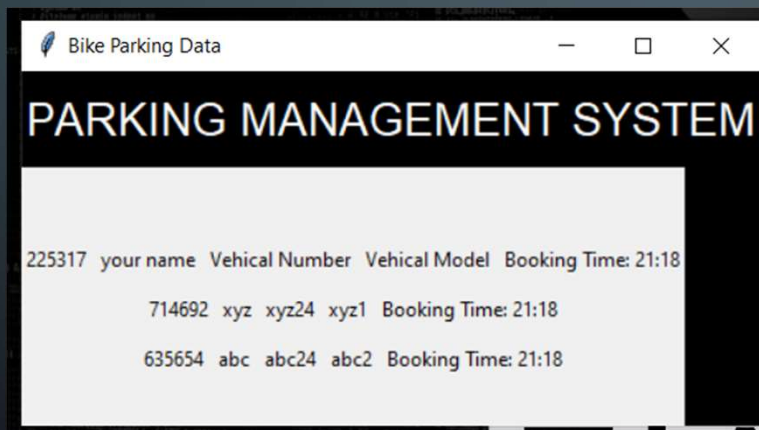
Bike Model: Vehical Mode

Submit

Bike Parking Sucessfully Booked!  
Your Token: 225317

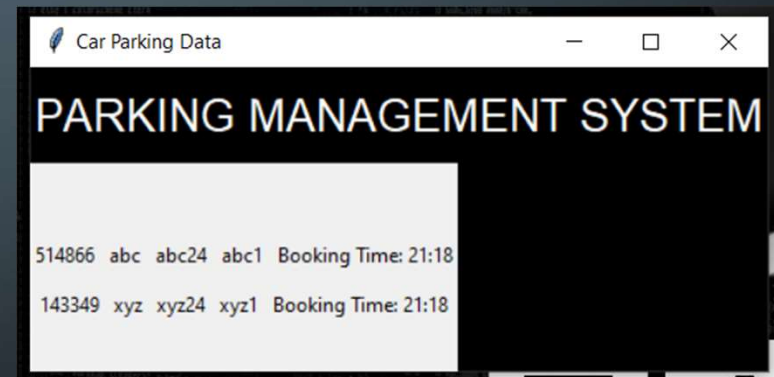
# SHOW WINDOW

It is used to checking the vehicles in the parking with an option of car and bike. This can show all the vehicles with their number with owner name and time of parking.



The screenshot shows a window titled "Bike Parking Data" with a black background and white text. The title bar includes a feather icon, the title, and standard window controls. The main content area displays a table with the following data:

PARKING MANAGEMENT SYSTEM				
225317	your name	Vehical Number	Vehical Model	Booking Time: 21:18
714692	xyz	xyz24	xyz1	Booking Time: 21:18
635654	abc	abc24	abc2	Booking Time: 21:18

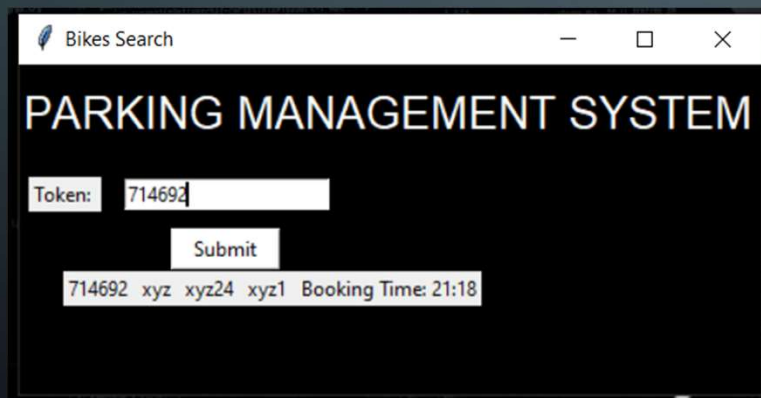


The screenshot shows a window titled "Car Parking Data" with a black background and white text. The title bar includes a feather icon, the title, and standard window controls. The main content area displays a table with the following data:

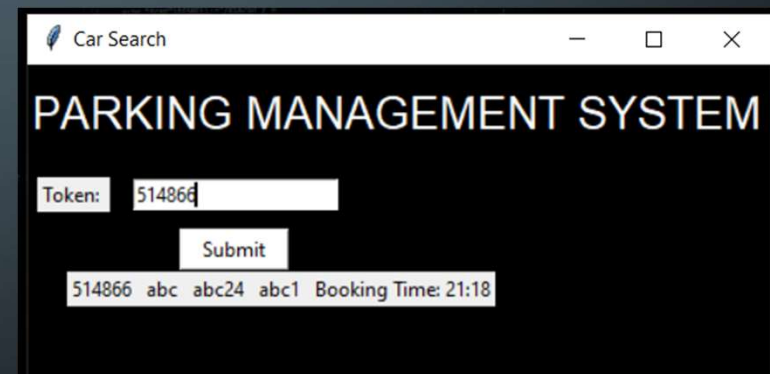
PARKING MANAGEMENT SYSTEM				
514866	abc	abc24	abc1	Booking Time: 21:18
143349	xyz	xyz24	xyz1	Booking Time: 21:18

# SEARCH WINDOW

Search Option is used for searching for a particular vehicle in the parking space with its Token which was provided while parking and an option of car and bike.



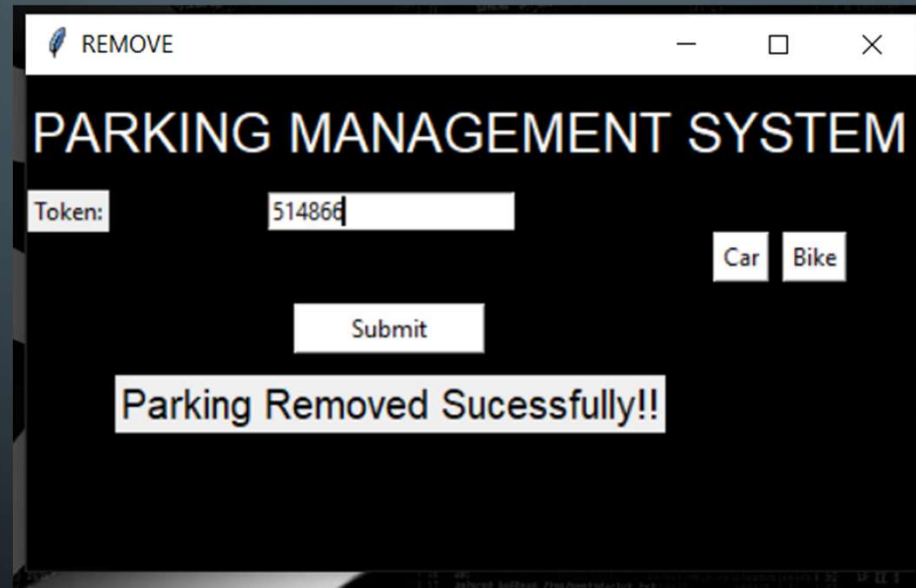
The screenshot shows a window titled "Bikes Search" with standard window controls. The main heading is "PARKING MANAGEMENT SYSTEM". Below it, there is a "Token:" label followed by a text input field containing "714692". A "Submit" button is positioned below the input field. At the bottom, a status bar displays the text "714692 xyz xyz24 xyz1 Booking Time: 21:18".



The screenshot shows a window titled "Car Search" with standard window controls. The main heading is "PARKING MANAGEMENT SYSTEM". Below it, there is a "Token:" label followed by a text input field containing "514866". A "Submit" button is positioned below the input field. At the bottom, a status bar displays the text "514866 abc abc24 abc1 Booking Time: 21:18".

# REMOVE WINDOW

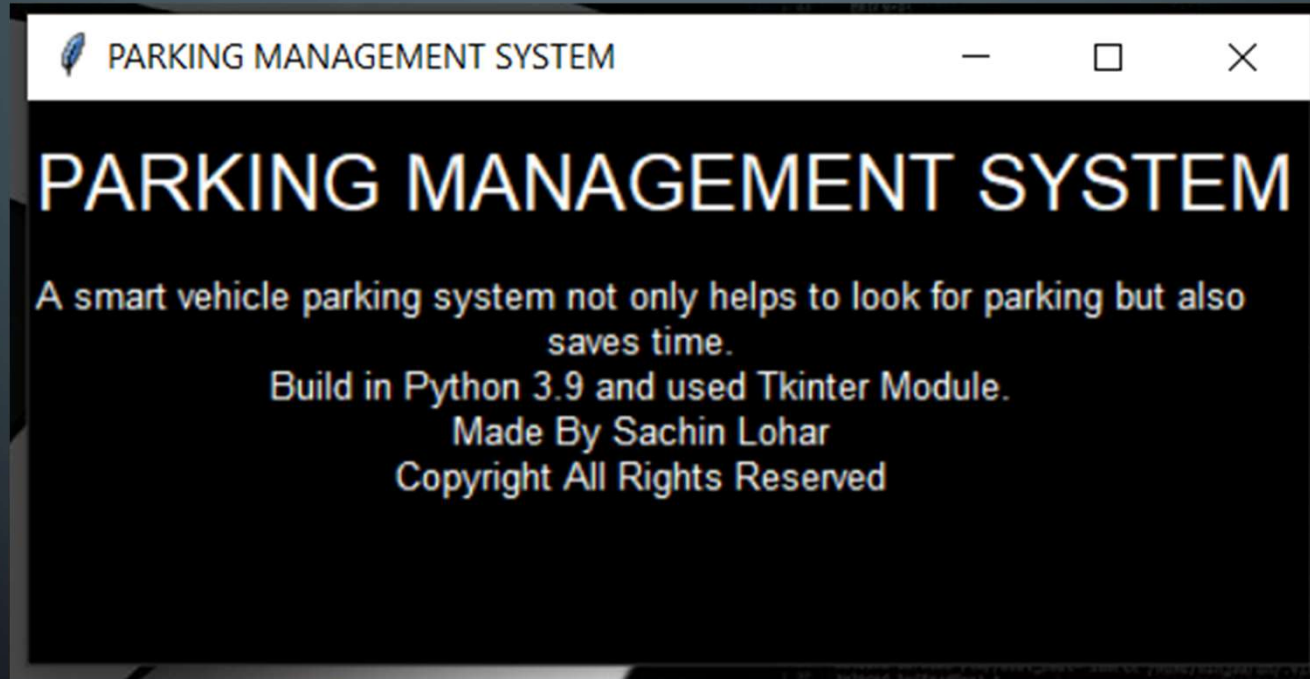
Remove is used to remove an entry for a car or bike with the token which was provided while parking.



The screenshot shows a web browser window titled "REMOVE". The main heading is "PARKING MANAGEMENT SYSTEM". Below the heading, there is a "Token:" label followed by a text input field containing the value "514866". To the right of the input field are two buttons labeled "Car" and "Bike". Below these buttons is a "Submit" button. At the bottom of the form, a message box displays "Parking Removed Sucessfully!!".

# ABOUT WINDOW

About window will show you s short description about the Project.





# OPTIMIZATIONS

- The graphical user interface needs to be improved.
- A database should be used to store the data such as SQL or MongoDB.
- It needs a Admin Login and Size of slots so that admin can login and set the slots size.
- The Show window should be for Admin only as it shows the Secret Token also.

# CONCLUSION

- This parking system can save time and you can book the parking earlier.
- This can be used by every person who has a car or bike, and where there are a huge number of in and out of vehicles like Malls, Companies, Tourist Places you can book your parking earlier.
- This new Parking system adds value to the modern day parking system.



**THANK YOU**