



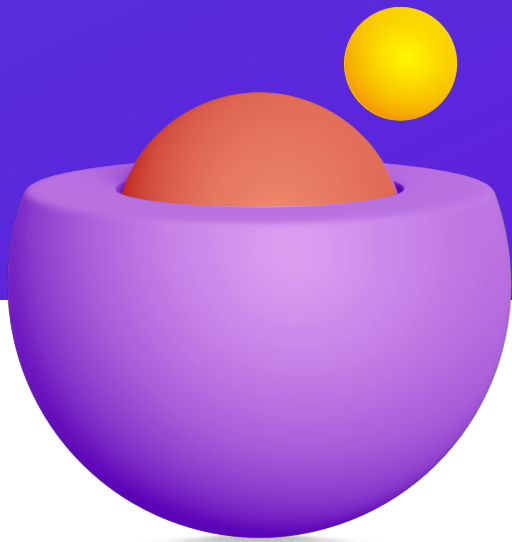
VEHICLE TRAFFIC MANAGEMENT SYSTEM



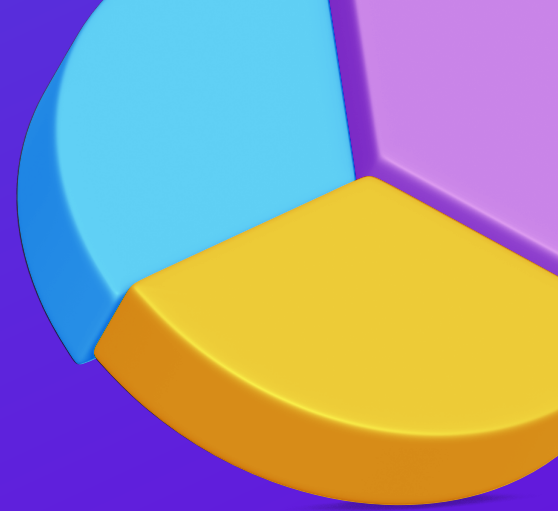
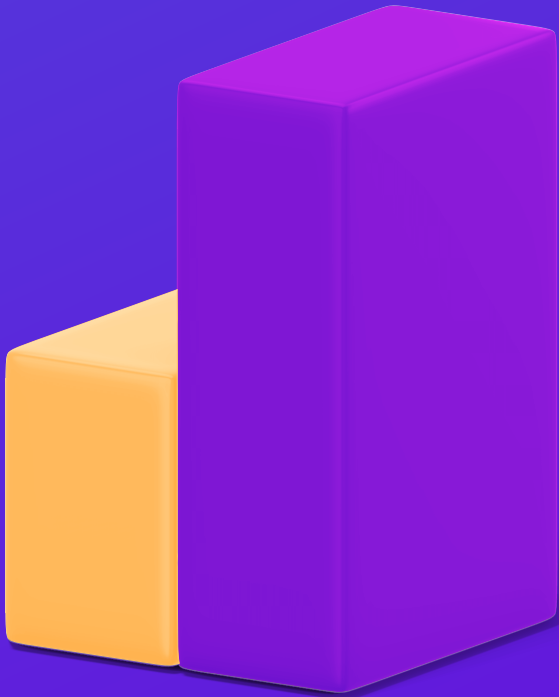
GROUP 03

Due to heavy traffics the traffic control systems are helpful.

This expert system provides more efficient solutions to the users who are experiencing traffics in day today life.



Objectives



Objectives:

- 01** Controll vehicle traffics
- 02** Show predictions according to traffic situation
- 03** Provide user a safe drive



vehicletraffices.pl

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vehicletraffices.pl

```
isa(pedestrian_cross, symbol).  
isa(slow_down, symbol).  
  
start :-sleep(0.4),  
        write('-----')
```

We are using facts here to identify symbols which are entered by user. We can list down more facts if we need.

Facts



Rules



vehicle traffic management system

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vehicletraffices.pl

```
ocation(User,red_light) :- verify(User," Is the signal Red (y/n) ?").
ocation(User,green_light) :- verify(User," Is the signal Green (y/n) ?").
ocation(User,yellow_light) :- verify(User," Is the signal Yellow (y/n) ?").
ocation(User,go_straight) :- verify(User," Do you need to go straight (y/n) ?").
ocation(User,need_to_turn_L) :- verify(User," Do you need to turn left (y/n) ?").
ocation(User,left_light_on) :- verify(User," Did you turn on the left signal light (y/n) ?").
ocation(User,need_to_turn_R) :- verify(User," Do you need to turn right (y/n) ?").
ocation(User,right_light_on) :- verify(User," Did you turn on the right signal light (y/n) ?").
ocation(User,pedestrians) :- verify(User," Are there any pedestrians passing (y/n) ?").
ocation(User,immergency_vehicles) :- verify(User," Are there any immergency vehicles passing (y/n) ?").
ocation(User,green_to_yellow) :- verify(User," Is the signal from green to yellow (y/n) ?").
ocation(User,red_to_yellow) :- verify(User," Is the signal from red to yellow (y/n) ?").
```

These are the some of rules we used to identify user behavoiors.

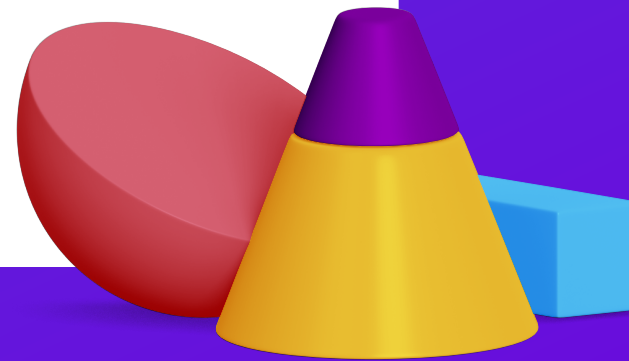
```
checkSymbol(User):-  
    nl,nl,write("Symbol: "),read(Symbol),  
    (   isa(Symbol, symbol) -> symbolAction(User,Symbol)  
    ;   write("Instruction: We cannot identify the symbol you see."),undo,e  
    ).
```

```
write_to_file(File, Text):-  
    open(File, append, Stream),  
    write(Stream, Text),nl,nl,  
    close(Stream).
```

```
read_file(File):-
```

We used various methods such as write_to_file, read_file, checkSymbol etc.

Methods



User Inputs

```
-----  
Hi. How are you? First of all tell me your Vehicle number please :  
|:
```

```
j. Is the signal Green (y/n) ?|: n.  
j. Is the signal Red (y/n) ?|: n.  
j. Is the signal from green to yellow (y/n) ?|: n.  
j. Is the signal from red to yellow (y/n) ?|: n
```

Instruction: j. Tell me the symbol you see.

Symbol: |:

We are getting various user inputs such as symbols input, yes or no onput as y ans n, vehicle number.


```

##### || ADMIN PANEL || #####
*****

Reading Database.
Reading Database..
Reading Database...

##### || HISTORY || #####

Vehicle Number: 1234 ==> Output: You probably have to wait
Vehicle Number: 456 ==> Output: Please slow down your vehicle
Vehicle Number: 123 ==> Output: You probably have to wait
Vehicle Number: 456 ==> Output: Please slow down your vehicle
Vehicle Number: 458 ==> Output: You probably have to stop

##### || THANK YOU FOR USING ME || #####
*****

true.

```

```

vehicledb.txt - Notepad

File Edit View

Vehicle Number: 1234 ==> Output: You probably have to wait
Vehicle Number: 456 ==> Output: Please slow down your vehicle
Vehicle Number: 123 ==> Output: You probably have to wait
Vehicle Number: 456 ==> Output: Please slow down your vehicle
Vehicle Number: 458 ==> Output: You probably have to stop


```

We write file store user data. And from admin. we read those stored data from file.

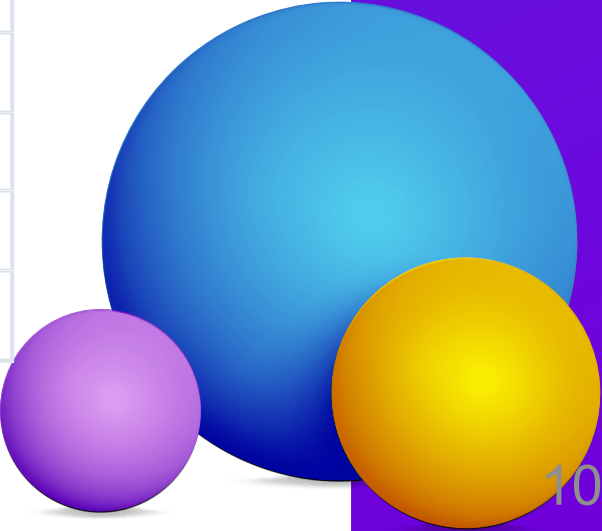


File Read/ Write

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Thank you!

GROUP 03