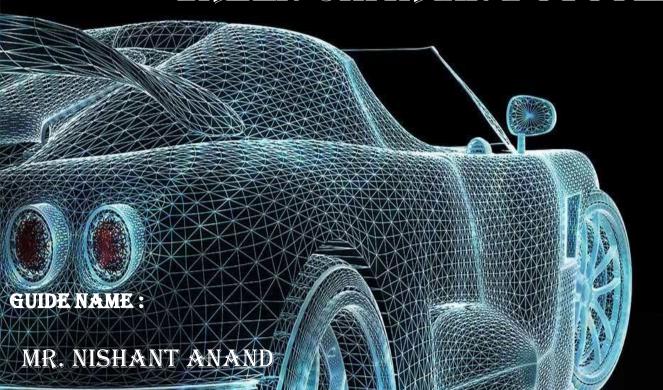
IOT-BASED EV SMART PARKING AND GREEN CHARGING SYSTEM





PROJECT MEMBERS:

KUSHAL SINGH ANMOL MADDESHIYA SIDDHARTH SINGH SATYAM KUMAR

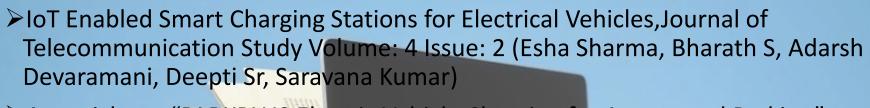
INTRODUCTION:-

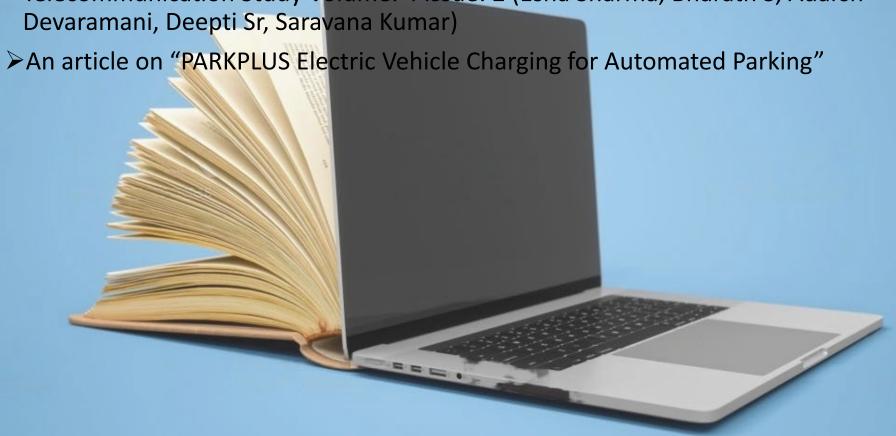
- Smart car parking system is an integrated system to organize cars in public areas.
- All vehicles are enter into the parking and without waste of time for searching parking slots.
- > With parking and also provide green charging system.
- Make EV's as the mode of transportation.
- Reduce pollution and provide charging station to EVs.



LITERATURE SURVEY:-

- ➤ A Review on IoT based Electric Vehicle Charging and Parking System, International Journal of Engineering Research & Technology (IJERT) Vol. 9 Issue 08 (S. Phadtare, S.S. Wadkar, S.S. Thorat, A.S. Ghorpade, Mr.A.B. Jadav)
- ➤ IoT based Smart Car Parking with Wireless Charging Feature for Electric Car, International Research Journal of Engineering and Technology (IRJET) Volume:07 Issue:08 (Ms. Lekshmi M, Mr. Mayur P, Mr. Manjunatha B, Ms. Kavya U, Mr. Anil Kumar J H)
- ➤ IoT Based Electric Vehicle Application Using Boosting Algorithm for Smart Cities (Shabana Urooj, Fadwa Alrowais, Yuvaraja Teekaraman, Hariprasath Manoharan, Ramya Kuppusamy)





Problem Statement:



Almost no car parking facilities in operation today can handle the flood of vehicles. It takes time to look for a vacant parking space.

It causes increased traffic congestion since many vehicles may compete for limited parking spaces.

After that there is also a problem with EV charging points across the city.

EV charging points are yet to upgrade to a renewable source of energy.

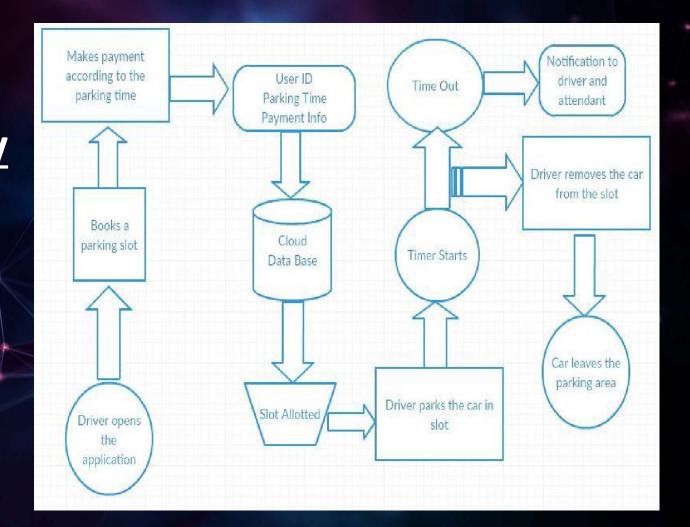
Proposed Solution:

- To provide information about slot availability for parking using IoT App/Browser.
- > To provide wired charging of Electric Vehicle.
- > To provide green charging using solar panels.

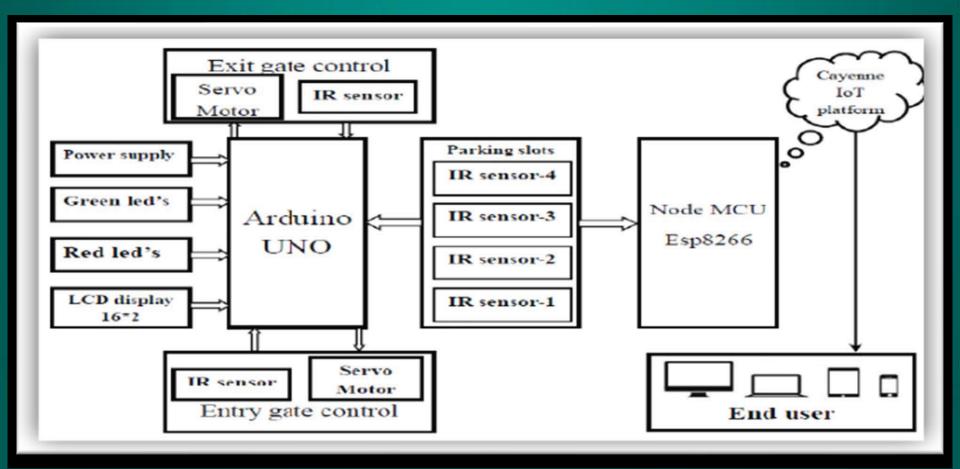




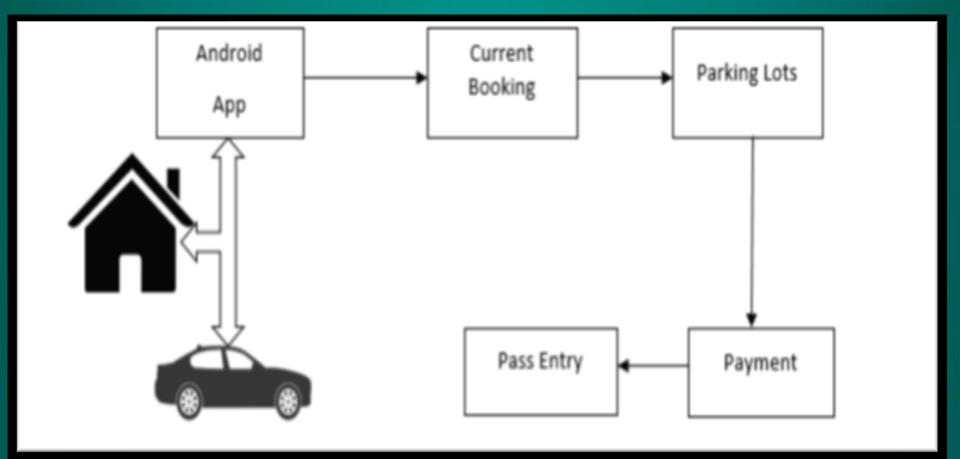
System Methodology & Flow-Chart:



Block Diagram of IoT

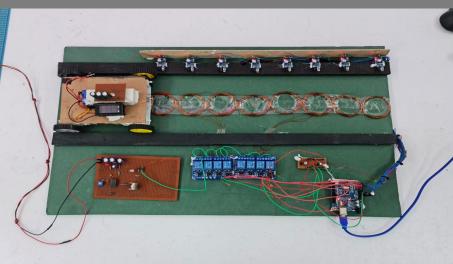


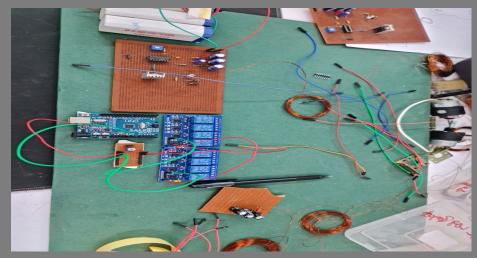
Payment Gateway

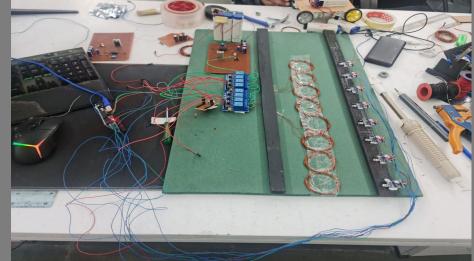


WORK TILL NOW...









Conclusion:

- Optimised Parking
- Reduced Traffic and Reduced Pollution
- > Green charging system
- > New Revenue Options
- > Fast Payments
- Decreased Management Costs
- Real-Time Data and Trend Insight

REFERENCES:-

- Review on IoT based Electric Vehicle Charging and Parking System, International Journal of Engineering
- Research & Technology (IJERT) Vol. 9 Issue 08 (S. Phadtare, S.S. Wadkar, S.S. Thorat, A.S. Ghorpade, Mr.A.B. Jadav)
- ➤ IoT based Smart Car Parking with Wireless Charging Feature for Electric Car, International Research Journal of Engineering and Technology (IRJET) Volume:07
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- ➤ IoT Based Electric Vehicle Application Using Boosting Algorithm for Smart Cities (Shabana Urooj, Fadwa Alrowais, Yuvaraja Teekaraman, Hariprasath Manoharan, Ramya Kuppusamy)
- ➤ IoT Enabled Smart Charging Stations for Electric Vehicles, Journal of Telecommunication Study Volume:4 Issue:2 (Esha Sharma, Bharath S, Adarsh Devaramani, Deepti Sr, Saravana Kumar)
- ➤ An article on "PARKPLUS Electric Vehicle Charging for Automated Parking"

