



Basic Details of the Team and Problem Statement

Problem Statement Title: Elimination of Printed Receipts from Parking Like Malls, Supermarkets, etc.

Theme Name: Smart Automation

Team Name: Tech Titans

Team Leader Name: Aadithya S Nair

School Code: 830092

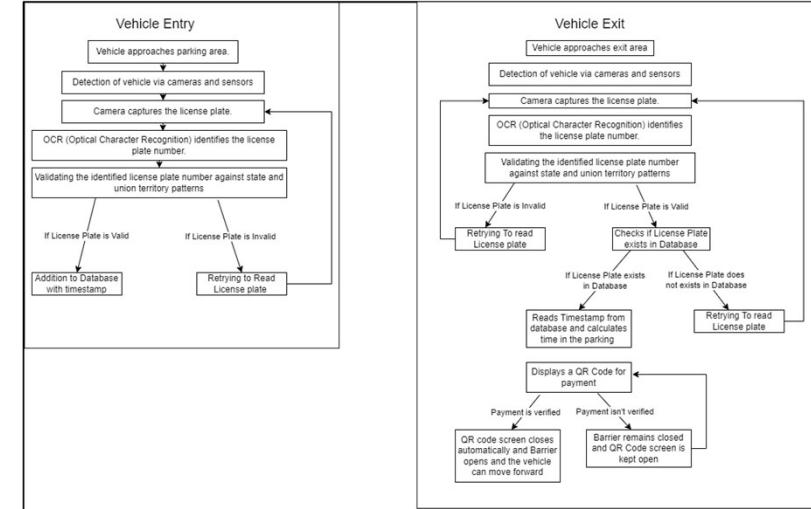
School Name: Delhi Public School Bangalore North

Idea/Approach Details

Idea/Solution

- Our System is a groundbreaking advancement in parking solutions. This system leverages cutting-edge technology to provide a unmanned system for collection of parking fees, completely transforming the parking experience. By harnessing the power of computer vision and sophisticated data services, it offers immediate access to crucial information about available parking spaces. With a primary focus on environmental sustainability, this technology-driven solution seeks to elevate the efficiency and convenience of parking facilities, promising a more seamless and eco-conscious experience for users.

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Process flow chart

Describe your Technology stack here:

- Frontend:(User Interface): HTML5, CSS3, JavaScript (ES6+)
- Backend:
 - Server-Side Language: Python
 - Web Framework: Flask
- Database:
 - Relational Database: MySQL
- Additional Packages Used:
 - Computer vision(cv2)
 - Pytesseract
 - QR code Generator
- OCR recognition Engine
 - Tesseract OCR

Idea/Approach Details

Describe your Use Cases here

- Shopping Malls: EazePark can be implemented in shopping malls to streamline the parking process for visitors. It provides real-time information on available parking spaces, reducing the time spent searching for a spot.
- Supermarkets: Supermarkets often have high traffic in their parking areas. EazePark helps customers quickly find available spots and provides an efficient way to pay for parking.
- Airports: Airports can utilize EazePark to enhance the parking experience for travelers. Real-time tracking and payment options improve efficiency, especially during busy travel times.
- Event Venues (Stadiums, Arenas, Concert Halls): During events, parking areas can become congested. EazePark helps attendees locate available spots and pay for parking seamlessly, enhancing the overall event experience.

Describe your Dependencies / Show stopper here

Dependencies

- Hardware Reliability :Ensuring selected hardware (cameras, servers) is compatible and reliable.
- Payment System Integration :Establishing seamless integration with external payment systems.

Show Stopper

- Data Security: Protecting sensitive information from breaches or unauthorized access.
- Scalability Concerns: Ensuring the system can handle increased usage without performance issues.

Team Member Details

Team Leader Name: Aadithya S Nair

Class: 12 th	Stream: Science	Age :17	Gender (M/F): M
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Team Member 1 Name: Harry R

Class: 12 th	Stream: Science	Age : 17	Gender (M/F): M
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Team Member 2 Name: Niyati Reddy E

Class: 12 th	Stream: Science	Age : 18	Gender (M/F): F
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Team Mentor 1 Name: Varsha Vijay

Category :Academic	Expertise (AI/ML/Blockchain etc.): AI	Domain Experience (in years):9.5
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