MEET THE TEAM

Aryan Acharya
SEM-1(CSD)

Chahna Acharya
SEM-1(IT)

Mihir Agath
SEM-1(CSD)

Satvik Thakkar
SEM-1(IT)

Saumya Diwan
SEM-1(IT)

LET'S CONNECT

Guide: **Prof. Isha Mediratta (9173000007)**
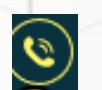
LJ Institute of Engineering & Technology, Ahmedabad

aryanacharya29@gmail.com

https://ljku.edu.in

+91 955821346

LJ University
University with a Difference

PARKFLOW AUTOMATION

LJ INNOVATION VILLAGE

INTRODUCTION

- IoT-based system for efficient parking
- RFID and LCD for secure access and slot status
- Servo gates for automatic entry and exit
- Ultrasonic sensors and LEDs for parking guidance
- Automatic time tracking and billing

WHY ARE WE DOING THIS PROJECT?

- Rapid urbanization & vehicle growth
- Inefficient manual parking
- Congestion & poor space utilization
- Need for real-time automated system
- IoT-based smart parking solution
- Low-cost, scalable for smart campuses & cities

EXISTING SIMILAR PRODUCT

- Automated System for entry and exit gates
- Real-time slot detection and guidance
- Digital displays for availability
- Payment, billing, and monitoring software
- Used in malls, airports, offices, and cities

PROBLEM ADDRESSED

- Difficulty finding parking slots → time wastage, congestion
- No real-time parking availability
- Inefficient entry & exit management
- Lack of parking guidance system
- Manual billing → slow, error-prone

PROJECT SPECIALITY

- End-to-end automation: Entry, parking guidance, assistance, billing, and exit
- Low-cost & scalable smart parking solution
- Multi-sensor IoT integration (RFID, Ultrasonic, LCD, Servo)
- Real-time guidance & safety alerts
- Practical, real-world campus application