Proposed Methodology

Team A - Parking Lot Automation

User Side

* A mobile application where the user can login/register.
  + The user side application that stores the user info
* A payment gateway in the app to enable online transactions
  + UPI based transactions GPAY PhonePay Paytm BHIM
* Determine the nearest available parking slot and assign it to the user
  + Constantly checks the live feed for available parking slots
* Visualize the Parking level with slots and its occupancy
  + Live feed that tracks the vacancy of the slots
* Enable cashless transactions

Admin Side

* Manage all the slots in the parking lot
* Retrieve data from user QR code and send/get data to and from the database
  + A camera scanner that looks for a qr code and reads the userID from the qr code
* Append the number plate registration data recognized using a camera module
  + Another camera module to scan the number plate for the regno
* Calculate the cost and generate a bill
  + Store the time of entry and exit to calculate the bill

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