

Goal:

Improve parking availability and efficiency for USC students and faculty by providing real-time lot occupancy information.

Akki Karanam

Technology / System Features

Real-time parking lot occupancy tracking

Mobile app showing available spaces

Website dashboard for desktop access

Color coded map

Data Collection & Sensors

Cameras or sensors at lot entrances

Partnership with campus police for lot data

Student ID scanners for tracking entry and exit

Use lot devices to count vehicles

User Experience (UX) / Interface

Simple “Find My Spot” button

Voice commands (hands-free driving)

Option to “favorite” specific lots

Filter by distance, permit type, or cost

Communication & Support

Push notifications for lot closures or events

Admin dashboard for staff to update lot status

Feedback system for users to report errors

Email alerts for parking permit updates

Implementation & Logistics

First test in 2-3 student lots first

Evaluate user feedback after 1 month

Expand to faculty and visitor lots later

Integrate payment system for visitor parking