

PAKING MANAGEMENT SYSTEM



INTRODUCTION: THE PROBLEM



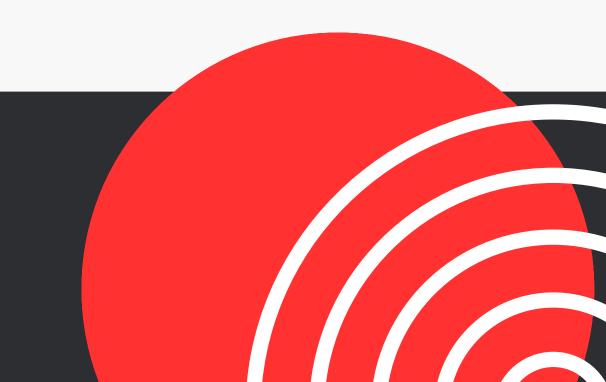
URBAN CHALLENGE



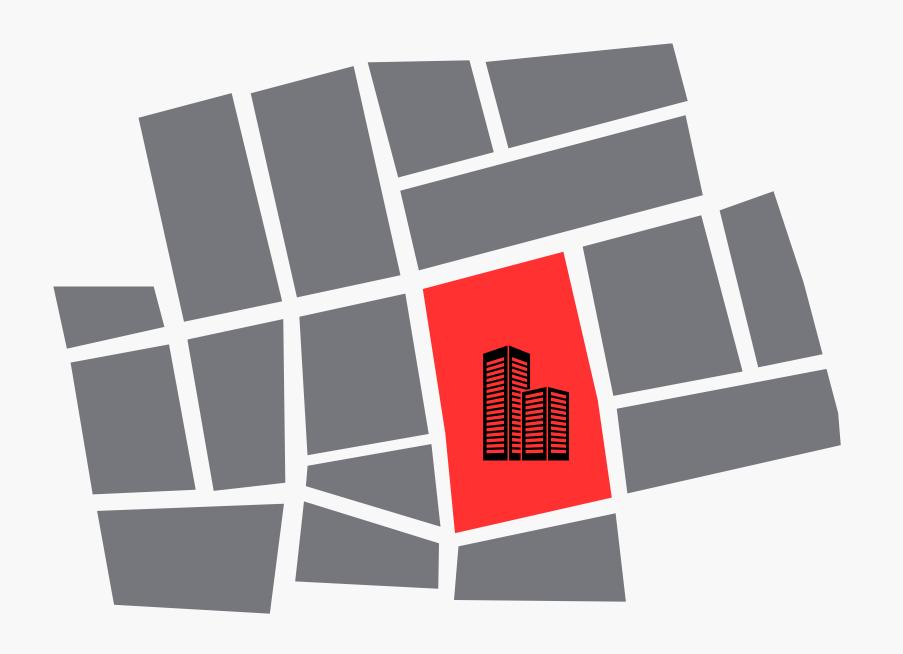
TRADITIONAL METHODS



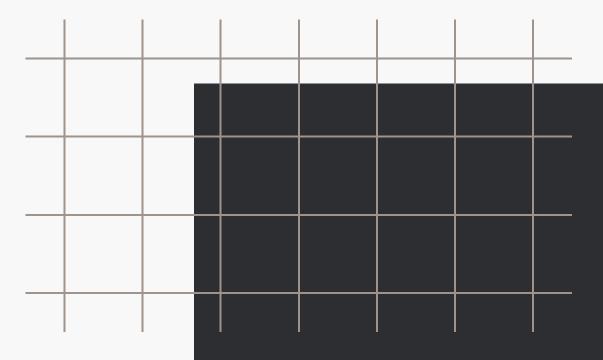
TRACEABILITY



PROPOSED SOLUTION



- Low-cost digital application
- Otimizes the entry and exit registration process
- Efficient management of available space.
- Traceability Record



DEFINITION AND PLANNING



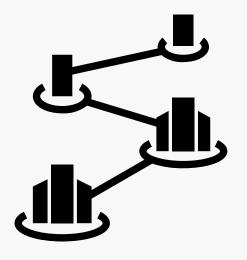
Business Model Canvas:
Defined the target audience
(parking lot administrators),
the value proposition
(automated registration and
space control), and revenue
streams (license, subscription,
or installation).



CRC Modeling: Identified the main classes (Vehicle, User, Register, Slot, Area, Fee) and their responsibilities.

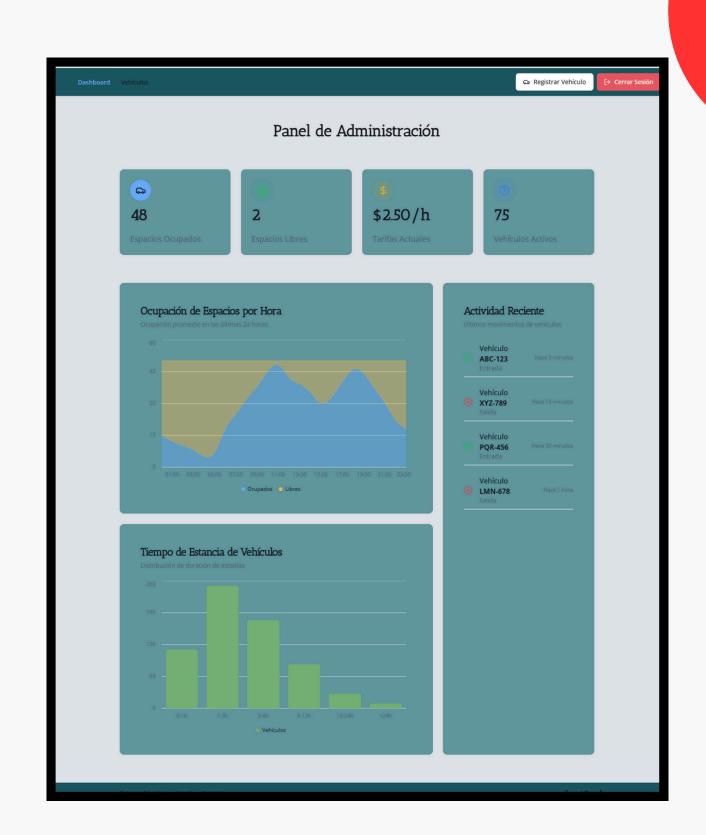


User Stories: Capture the administrator's needs, such as vehicle entry/exit, space availability, and authentication.



APPLICATION DESIGN AND UI PROGRESS

- UML Class Diagram: Defined the classes
 User, Vehicle, ParkingTicket,
 ParkingLot, and ParkingSession, along
 with their relationships.
- General Architecture: Connection between Frontend (interface), Backend (business logic), and database.
- Mockups: Main system screens (home, user dashboard, and settings).



CURRENT PROJECT STATUS

Current Status:

- Ongoing development of the interface.
- Implementation of vehicle entry and exit registration.
- Simulation of available space control.

Immediate Next Steps:

- Integrate functional validations.
- Conduct local testing.
- Adjust the interface based on usability test results.

RESULTS

Short-term Goals:

- Real-time visual control of the parking lot.
- Elimination of manual records.
- More agile workflow for the operator.

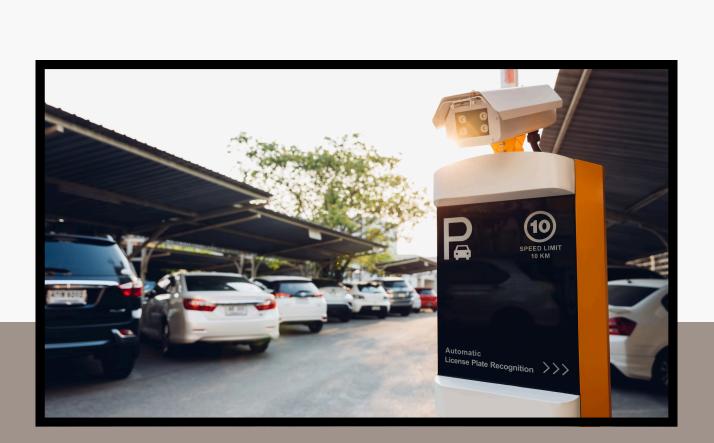
Medium-term Goals:

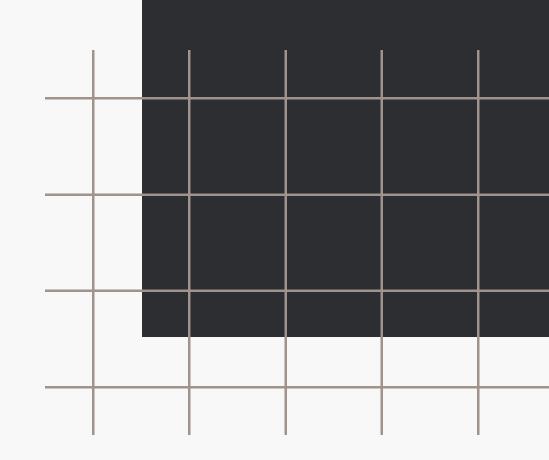
- Implement basic user authentication.
- Adjust the system for different parking lot sizes.



CONCLUSIONS:

- A SIMPLE TECHNOLOGICAL SOLUTION CAN IMPROVE EVERYDAY PROCESSES.
- THE SYSTEM DEMONSTRATES EFFICIENCY WITHOUT REQUIRING ADVANCED RESOURCES.
- THE MODULAR DESIGN FACILITATES FUTURE EXPANSION (E.G., AUTHENTICATION OR REPORTS).





WORK TEAM

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