

# REQUIREMENT STUDY

**R.Prabhakara Arjun(2022503003)**

**V. Guru Aravindan (2022503001)**

## Requirement collection documents

### Functional Requirements:

Requirement-1: Vehicle Entry and Exit Management

Requirement-2: Parking Space Allocation

Requirement-3: Reservation System

Requirement-4: Real-Time Availability Tracking

Requirement-5: Multi-Level Facility Support

Requirement-6: Payment and Billing

Requirement-7: Report Generation

Requirement ID	Requirement Description	Source	Require. Type	Test Case ID	Test case description	status	comment
REQ-001	The system will record vehicle entry and exit times, and issue tickets for vehicles based on time parked.	SRS Document	Functional	TC-001	Verify that vehicle entry, exit times, and tickets are managed correctly.	Pending	Ensure accuracy in ticket issuance and time tracking.
REQ-002	The allocation of parking spaces will be automatic based on vehicle size.	SRS Document	Functional	TC-002	Verify that parking spaces are allocated automatically based on vehicle size.	Pending	Ensure efficient space utilization.
REQ-003	Users will be able to book parking spaces through mobile and web interfaces in advance. Reserved spaces will be blocked until used or canceled.	SRS Document	Functional	TC-003	Verify that reservations are handled correctly and reserved spaces are blocked.	Pending	Ensure proper handling of reservations and cancellations.
REQ-004	The system will update users on parking space	SRS Document	Functional	TC-004	Verify real-time updates on parking space availability	Pending	Ensure timely and accurate availability updates.

	availability and display updates on signage, web, and mobile apps.				and accurate signage display.		
REQ-005	The system will guide vehicles to appropriate levels, distributing the parking load evenly across all levels.	SRS Document	Functional	TC-005	5 Verify that vehicles are guided correctly and parking load is distributed evenly across levels.	Pending	Test multi-level support for parking management
REQ-006	The system will accept multiple payment methods and issue invoices for parking fees.	SRS Document	Functional	TC-006	Verify that the system processes payments and issues invoices correctly.	Pending	Test different payment methods and invoice generation.
REQ-007	Admins will be able to generate reports on usage, revenue, and space utilization with export options in PDF or Excel formats.	SRS Document	Functional	TC-007	Verify that reports are generated accurately and can be exported in various formats.	Pending	Ensure report accuracy and proper export functionality.