Requirement 1: Car Rental Agencies Portal (WebApp)

1. Dashboard (Main Page)

A central hub providing an overview of operations for rental agencies.

✅ **Vehicle Overview (Phase 1)**

- Total number of vehicles in the fleet
- Number of vehicles currently rented
- Vehicles in maintenance or unavailable

✅ **Reservation Summary (Phase 1)**

- Ongoing reservations
- Future reservations (monthly/daily breakdown)
- History of completed reservations

✅ **Alerts & Notifications**

- Administrative document renewals (registration, insurance, inspections)
- Scheduled technical interventions (oil change, tire replacement, repairs)
- Overdue and upcoming payments

✅ **Financial Metrics**

- Monthly revenue & expenses
- Gross margin (%)
- Vehicle profitability (revenue per vehicle/month)
- Average occupancy rate (%)

2. Vehicle Management (Phase 1)

Agencies can manage their fleet, update vehicle details, and track availability.

Sub-Tab: View Fleet

📌 **Vehicle List with Details**

- Registration number
- Brand, model, year
- Status (Available, Rented, Maintenance, Unavailable)
- Last oil change & next scheduled oil change
- Compliance status (Insurance & Technical Inspection)

Sub-Tab: Create Vehicle

📌 **Form to add a new vehicle**

- Registration number
- Brand & Model
- Year of manufacture
- Fuel type (Gasoline, Diesel, Hybrid, Electric)
- Initial mileage
- Insurance expiry date

- Last technical visit date
- Initial status (Available, Rented, Maintenance, Unavailable)

Sub-Tab: Manage Car Availability

- Agencies can update a vehicle's **status in real-time** (Available, Rented, Maintenance, Unavailable)
- Users can **filter cars by availability**
- Status updates will reflect in both **Web & Mobile App UI**
- Automatic notifications for:
  - Cars due for maintenance
  - Cars returning from rentals

3. Customer Management (Phase 1)

Agencies can manage individual and corporate customers.

Sub-Tab: Create New Client

📌 **Client Details**

- Client type (Individual or Company)
- Name & First Name (if individual) OR Business Name (if company)
- Gender (for individuals)
- Contact details (Phone, Email)
- Driver's license number & expiry date
- National ID (for locals) or Passport (for foreigners)
- Reliability indicator (Yes/No)

4. Availability Management (Phase 1)

A **booking system** for vehicle reservations.

✅ **New Booking Creation**

- Select client & vehicle
- Rental duration (Start date, End date)
- Rental agreement & terms
- Estimated cost calculation
- Payment status (Paid, Pending)

✅ **Reservation Tracking**

- Ongoing reservations
- Upcoming reservations (monthly/daily)
- Completed rental history

✅ **Booking Alerts**

- Overdue returns
- Pending payments

5. Interventions Management (Phase 1)

Centralized **maintenance & compliance tracking** for vehicles.

Sub-Tabs for Interventions:

✅ **Insurance** (Contract details, Expiry reminders)

✅ **Technical Inspection** (Inspection center, Expiry dates, Costs)

✅ **Oil Change** (Last oil change, Next scheduled date, Cost)

✅ **Tires** (Replacement history, Next due date, Cost)

✅ **Repairs** (Type, Description, Cost)

✅ **Violations** (Client violations, Fines, Dates)

6. Expenses Management

Tracking all costs related to vehicle operations.

✅ **Expense Categories:**

- Insurance
- Technical inspections
- Oil changes
- Tire replacements
- Repairs
- Other fees (fuel, maintenance, taxes, etc.)

✅ **Monthly/Annual View** with filters by category.

7. Revenue Management

Reports on rental revenue and business performance.

✅ **Revenue Breakdown:**

- Monthly/Annual rental revenue
- Filters for:
    - Client type (Individual, Corporate)
    - Rental duration (Short-term, Long-term)
    - Specific vehicle

8. Performance & Statistics

Data analytics to monitor agency performance.

✅ **Key Metrics:**

- Monthly/Annual occupancy rate
- Revenue vs Expenses comparison
- Top 5 most rented vehicles
- Most loyal customers

✅ **Data Visualization:**

- Charts (Pie charts, Bar graphs, Line graphs)
- Comparative tables

9. Data Import & Export

📥 **Import:**

- Bulk upload of client & vehicle data
- Supported formats: CSV, Excel
- Automatic error validation

📤 **Export:**

- Download reports in **PDF, CSV, Excel**
- Custom column selection for export

10. Cross-Functional Features

✅ **Search & Filtering**

- Quick search for vehicles, clients, or reservations
- Advanced filters (Date, Status, Type)

✅ **Real-Time Notifications**

- Alerts for upcoming renewals, maintenance, and overdue payments

✅ **Audit Log & History Tracking**

- View modifications (Who, When, What)

✅ **Security & Access Control**

- Role-based authentication:
  - **Administrator** (Full access)
  - **Operator** (Vehicle & Client Management)
  - **Accountant** (Financial reports & transactions)

Requirement 2: UI/UX Enhancements & Functional Updates for Web & Mobile App

1. Entry & Exit Inventory Module (Phase 1)

- **Purpose**: Ensure accurate vehicle condition tracking by capturing photos before and after rentals.

✅ **Features:**

- Allow users/agencies to upload vehicle photos at **rental start & end**.
- Mandatory image upload for specific areas (e.g., Front, Rear, Sides, Interior, Odometer).
- Store images in the system for future reference.
- Compare start vs. end images for damage assessment.

📌 **UI Impact:**

- New **"Vehicle Check-in & Check-out"** section in the booking process.
- Image upload interface on both **Web & Mobile App**.

2. Integration of Google Translate API (Phase 1)

- **Purpose**: Improve accessibility for multilingual users.

✅ **Features:**

- Enable **automatic translation** of platform text & messages based on user preference.
- Users can select their **preferred language** in settings.
- Real-time **translation toggle** for content and UI elements.

📌 **UI Impact:**
- Language selection dropdown in **header/footer**.
- Automatic translation applied to key areas (menus, forms, instructions).

3. User Experience (UX) Improvements (Phase 1)

◆ **Purpose**: Enhance navigation, speed, and overall usability of the platform.

✅ **Key Enhancements:**
- **Simplified booking flow** to reduce steps for vehicle rental.
- Improved **loading speed** for web pages & mobile screens.
- **Refined design** for better clarity & ease of use.
- Optimize **search & filters** for vehicles.

📌 **UI Impact:**
- **Updated home screen layout** with clear CTA buttons.
- **Better mobile responsiveness** for a seamless app experience.

4. Display Rental Agency Name & Rating (Phase 1)

◆ **Purpose**: Provide users with insights into agency reputation.

✅ **Features:**
- Display **agency name & rating** on vehicle listings & booking pages.
- Ratings based on **customer feedback & history**.
- Ability to **sort vehicles by highest-rated agencies**.

📌 **UI Impact:**
- **Visible agency details** on car listing & booking screens.
- **Filter & sort option** by rating in search results.

5. "Become an Owner" → "Become a Partner" (with Contact Form) 📩 (Phase 1)

◆ **Purpose**: Update branding & improve user onboarding.

✅ **Changes:**
- Rename **"Become an Owner"** to **"Become a Partner"**.
- Clicking it redirects to a **Contact Form** instead of sign-up.

📌 **UI Impact:**
- Update **menu & homepage button**.
- Design a **contact form page** with:
    - Name, Email, Phone
    - Business Type (Car Rental, Individual Owner, Investor, etc.)
    - Message box
    - Submit button (sends email to admin)

6. Hide Messaging Feature (Phase 1)

◆ **Purpose**: Remove unused functionality to streamline the platform.

✅ **Changes:**

- **Disable messaging system** on both Web & Mobile App.
- Hide chat buttons & related UI components.

📌 **UI Impact:**

- Remove **"Messages"** section from the menu.
- Hide chat icons in rental bookings & agency pages.

7. Real-Time Vehicle Availability Sync 🔄 (Phase 1)

◆ **Purpose**: Ensure accurate car availability across platforms.

✅ **Features:**

- **Live synchronization** between **reservation app & management system**.
- Automatic updates when:
    - A car is rented (Marked as unavailable).
    - A rental ends (Car becomes available).
    - A vehicle goes for maintenance (Marked as unavailable).

📌 **UI Impact:**

- Real-time availability indicators on car listings.
- Automatic status update in **rental app & admin panel**.

Milestones:

Milestone	Scope of Work

1	**Core System & Initial UI Fixes**
	
	● **Requirement 1 – WebApp:**
	    ○ **Real-Time Availability Sync** between management system & reservation app
	    ○ **Vehicle Management** (Add/edit vehicles, track details)
	    ○ **Availability Management**
	● **Requirement 2 – Web & Mobile Enhancements:**
	    ● **Change "Become an Owner" to "Become a Partner"** (Redirect to contact form)
	    ● Improve user experience (UI optimizations)
	
	Delivery Goal: Basic car rental management is operational, and initial UI fixes for better user experience.

2	**Live Availability Sync & UI Improvements**
	
	● **Requirement 1 – WebApp:**
	    ○ **Basic Dashboard** (View current rentals, availability summary)
	● **Requirement 2 – Web & Mobile Enhancements:**
	    ○ Display rental agency name & rating
	    ○ **Hide messaging feature**
	    ○ **Entry-Exit Inventory:** Enable capturing vehicle condition photos before & after rental
	
	Delivery Goal: Live vehicle availability updates & UI fixes are implemented.

3	**Entry/Exit Inventory & Major Enhancements**
	
	● **Requirement 1 – WebApp:**
	    ○ **Customer Management** (Store client details, license, ID)
	    ○ Intervention Management
	● **Requirement 2 – Web & Mobile Enhancements:**
	    ○ Google Translate API integration - 4 languages
	
	Delivery Goal: Enhanced vehicle tracking & multi-language support.

4	**Final Features & Full System Deployment**
	
	● **Requirement 1 – WebApp:**
	    ○ Final testing & optimizations
	    ○ Bug fixes & deployment
	● **Requirement 2 – Web & Mobile Enhancements:**
	    ○ Final UI fixes & usability improvements