**Functional Requirement Document (FRD)  
for SheenCar**

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## 1. Introduction

### 1.1 Purpose

**SheenCar is a web-based car listing platform designed to facilitate seamless car buying and selling, catering to individual buyers, sellers, and dealerships. The platform will feature robust search, comparison, listing, and subscription models, providing an efficient and user-friendly experience.**

**This document outlines the platform’s key features, functional requirements, technical specifications, and business logic required for successful development and deployment.**

## 2. General Overview

### 2.1 Key Features

* **User Authentication: Secure login, sign-up, and account recovery.**
* **Car Listings: Sellers and dealers can post cars with detailed specifications, images, and pricing.**
* **Search & Comparison: Advanced search filters and a side-by-side car comparison tool.**
* **Subscriptions & Monetization: Paid listings, dealer membership plans, and boosting options.**
* **Buy it for Me / Sell it for Me Service: Buyers and sellers can request platform assistance in buying or selling cars.**
* **Bidding System: Users can place bids on cars instead of purchasing them at a fixed price.**
* **Notifications: Real-time alerts for buyers, sellers, and dealers.**
* **Dealer Management: Dedicated dashboard for dealership inventory management.**
* **Admin Panel: User, car, and subscription management.**

### 2.2 User Roles

1. **Buyers & Sellers: Single signup allowing users to either buy or sell cars.**
2. **Dealers: Onboarded manually by the admin with exclusive access to dealer-specific features.**
3. **Admins: Manage users, car listings, transactions, and platform settings.**

## 3. Functional Requirements

### 3.1 User Functional Requirements

#### 3.1.1 User Registration & Authentication

* **Sign up with First Name, Last Name, Email, Phone Number, and Password.**
* **Login via Email/Password or OAuth (Google, Facebook).**
* **Password reset and recovery via email verification.**

**User Story: As a user, I want to securely sign up and log in so that I can access platform features.**

**Acceptance Criteria:**

1. **Users must be able to register with valid credentials.**
2. **Login via email/password and social media must be functional.**
3. **Forgotten passwords must be recoverable via email verification.**

#### 3.1.2 Car Listings & Management

* **Sellers can post cars with:**
  + **Make, Model, Year, Condition, Mileage**
  + **Images & Video Upload**
  + **Price & Contact Details**
  + **Boosting options for higher visibility**
* **Buyers can:**
  + **Search for cars using filters**
  + **Compare multiple listings**
  + **Contact sellers**

**User Story: As a seller, I want to list my car so that buyers can view and contact me.**

**Acceptance Criteria:**

1. **Sellers should be able to create, edit, and delete listings.**
2. **Listings should include all mandatory details before submission.**
3. **Buyers should be able to search and compare listings.**

#### 3.1.3 Buy it for Me / Sell it for Me

* **Buyers can request platform assistance in finding and purchasing a car.**
* **Sellers can request platform assistance in managing and selling their cars.**
* **The platform can either handle transactions in-house or outsource to partners.**
* **The service is paid:**
  + **For individual users: Commission-based model.**
  + **For dealers: Fixed fee-based model.**

**User Story: As a user, I want the platform to assist in buying or selling my car so that I can save time and effort.**

**Acceptance Criteria:**

1. **Users should have an option to request "Buy it for Me" or "Sell it for Me" services.**
2. **The platform should provide details about the fees and the process.**
3. **Users should be able to track the progress of their request.**

#### 3.1.4 Bidding System

* **Users can place bids on cars instead of purchasing them at a fixed price.**
* **Sellers can choose to accept or reject bids.**
* **Real-time bidding updates and notifications.**
* **Both buyers and dealers can participate in bidding.**

**User Story: As a buyer, I want to place bids on cars so that I can potentially purchase a vehicle at a competitive price.**

**Acceptance Criteria:**

1. **Users should see a "Place a Bid" option on eligible car listings.**
2. **Sellers should be able to accept, reject, or counter offers.**
3. **Users should receive notifications about bid updates.**

### 3.2 Dealer Functional Requirements

#### 3.2.1 Dealer Dashboard

* **Manage car inventory with bulk upload via CSV.**
* **Track views, inquiries, and sales metrics.**
* **Subscription and membership management.**
* **Exclusive dealership promotions.**

**User Story: As a dealer, I want a dedicated dashboard to manage my car inventory efficiently.**

**Acceptance Criteria:**

1. **Dealers should be able to bulk upload and manage multiple car listings.**
2. **Analytics should track listing performance.**
3. **Subscription plans should be visible and manageable from the dashboard.**

### 3.3 Admin Functional Requirements

#### 3.3.1 User & Dealer Management

* **Approve/reject user and dealer registrations.**
* **View and manage user activity.**
* **Notify users about platform updates.**

#### 3.3.2 Car Management

* **Review and approve/reject listings.**
* **Handle flagged listings and enforce platform policies.**

**User Story: As an admin, I want to oversee platform operations so that everything runs smoothly.**

**Acceptance Criteria:**

1. **Admins should be able to approve/reject listings.**
2. **Users should receive notifications about listing decisions.**

## 4. Subscription & Monetization

#### 4.1 Subscription Plans

* **Free: Basic features, limited car comparisons.**
* **Standard: Exclusive car listings, market insights, and customer support.**
* **Premium: Dealer insights, priority listings, and full comparison tools.**

#### 4.2 Platform Fees

* **Fee per car posting for sellers.**
* **Dealer membership plans:**
  + **1-10 Cars**
  + **11-20 Cars**
  + **21-30 Cars**
  + **31-50 Cars**
  + **Unlimited Cars**
* **Boosting options for increasing listing visibility.**
* **"Buy it for Me / Sell it for Me" services available at a paid rate.**

## 5. Technical Stack

### 5.1 Frontend:

* **Framework: Next.js**
* **Styling: Tailwind CSS**

### 5.2 Backend:

* **Framework: Node.js (Nest.js)**
* **Database: PostgreSQL**

### 5.3 Infrastructure:

* **Hosting: AWS**

## 6. Conclusion

**This document provides a comprehensive overview of SheenCar’s functionality, user stories, acceptance criteria, and technical stack. The structured approach ensures efficient implementation and scalability for the platform.**