

SparkleRide – Car Wash Booking Platform

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PROJECT DATE: 30/09/2025
TECHNOLOGIES USED: WORDPRESS

1. Project Overview

- SparkleRide is a responsive web platform for booking car wash services.
- Streamlines service scheduling, communication, and real-time tracking.
- Designed to offer seamless digital experience for customers and service providers.

2. Objectives

- Simplify the car wash booking process.
 - Enhance customer convenience through online scheduling.
 - Provide transparency with real-time service updates.
 - Support multiple service packages and payment options.

3. Key Features

- Online service scheduling and booking.
 - User dashboard for tracking service history.
 - Real-time wash status and notifications.
 - Multiple car wash packages and add-on services.
 - Secure payment integration.
 - Customer support and feedback system.

4. Target Audience

- Private vehicle owners.
- Commercial fleet operators.
- Car rental agencies.
- Urban residents seeking convenience.

5. Technology Stack

- Frontend: HTML, CSS, JavaScript, React.js
- Backend: Node.js / Express.js
- Database: MongoDB
- Hosting: AWS / Vercel
- Payment Gateway: Stripe / Razorpay

6. System Architecture

- Client-side application connected to REST APIs.
 - Backend handles booking logic, authentication, and notifications.
 - Database stores user profiles, bookings, service packages.
 - Admin panel for managing services and schedules.

7. Workflow

- User registers or logs in.
 - Chooses vehicle type and wash package.
 - Selects date and time slot.
 - Confirms booking and makes payment.
 - Receives real-time updates during service.
 - Provides feedback post-service.

8. UI/UX Design Considerations

- Responsive interface for mobile and desktop.
- Minimalistic and clean layout.
- Easy navigation and quick booking flow.
- Modern color theme representing water and cleanliness.

9. Security Measures

- Secure authentication with JWT.
- Encrypted user data storage.
- Secure API access and validation.
- PCI-compliant payment processing.

10. Future Enhancements

- AI-based service recommendations.
- Subscription-based monthly wash plans.
- Integration with IoT-enabled smart washers.
- Location-based service discovery with GPS.

11. Conclusion

- SparkleRide transforms the traditional car wash experience.
- Enhances convenience, efficiency, and customer satisfaction.
- Supports scalability for future expansion and service upgrades.



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