Sprint Plan Document
Group 17

Index Number	Name	Role
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22020454	M.A.N.Kasunthara	Developer
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22020901	A.U.Savindu	Developer, Product Owner

The Smart Car Service Booking System aims to provide a seamless platform for users to book car services, manage vehicle profiles, and receive AI-driven service recommendations. It enhances convenience with real-time notifications, secure payments, and service tracking while helping service providers manage bookings efficiently. The system improves user experience with personalized maintenance schedules, technician preferences, and feedback collection.

Sprint Timeline

Sprint 1: Feb 03 – Feb 14 (12 days)

Sprint 2: Feb 15 – Feb 25 (11 days)

Sprint 1: Feb 3 – Feb 14

Primary Goal

The primary goal of sprint 01 is to develop a seamless and user-friendly platform that enables users to register, authenticate, and manage their car profiles efficiently. This includes implementing sign-up, login, and password reset functionalities, along with AI-driven service recommendations. The system will support booking management, confirmations via email and SMS, and automated reminders. Additionally, an admin dashboard will be designed to facilitate customer management and booking oversight, ensuring robust data validation and error handling throughout the platform.

Objectives

- Develop the frontend UI for user registration and authentication.
- Implement user sign-up, login, and password reset functionality.
- Design and develop the frontend UI for car profile management.
- Implement features to add, edit, and remove car details.
- Design the UI for AI-driven service recommendations.
- Implement AI-generated service recommendations and explanations.
- Develop the frontend UI for service booking.
- Implement functionality to display and book available service slots.
- Implement booking confirmation via email and SMS.
- Develop service reminder notifications.
- Create the frontend UI for the admin dashboard.
- Implement features for updating customer details and viewing bookings.
- Ensure data validation and error handling

Task List

Task ID	Task	Priority	Assigned To	Status	Start Date	End Date
T01	Develop User Registration Form (Frontend & UI Design)	P0	Safran Zahim	Completed	2/3/2025	2/5/2025
T02	Implement user sign-up with email and password	P1	Safran Zahim	Completed	2/5/2025	2/6/2025
T03	Enable user login with authentication with testing	P2	Safran Zahim	Completed	2/5/2025	2/6/2025
T04	Develop password reset functionality via email	P3	Safran Zahim	Completed	2/13/2025	2/14/2025
T05	Develop Car Profile Management Frontend & UI Design	P0	Nethsilu Marasinghe	Completed	2/3/2025	2/5/2025
T06	Allow users to add car details (make, model, year, mileage)	P0	Nethsilu Marasinghe	Completed	2/5/2025	2/6/2025
T07	Implement the ability to edit car details	P1	Nethsilu Marasinghe	Completed	2/6/2025	2/7/2025
T08	Enable users to remove a car from their profile	P1	Nethsilu Marasinghe	Completed	2/6/2025	2/7/2025

T09	Develop AI Features Frontend & UI Design	P1	Ushan Savindu	Completed	2/8/2025	2/10/2025
T10	AI to provide service recommendations based on car details (make, model, year, mileage)	P2	Ushan Savindu	Completed	2/11/2025	2/14/2025
T11	Display reasoning behind AI recommendations	P2	Ushan Savindu	Completed	2/12/2025	2/14/2025
T12	Develop Service Booking Frontend & UI Design	P0	Sachini Ariyarathne	Completed	2/4/2025	2/6/2025
T13	Users can view available service slots	P0	Sachini Ariyarathne	Completed	2/6/2025	2/7/2025
T14	Allow users to book a service slot	P0	Sachini Ariyarathne	Completed	2/6/2025	2/7/2025
T15	Develop notifications Frontend & UI Design	P1	Hansika Kularatne	Completed	2/9/2025	2/10/2025
T16	Implement booking confirmation via email and SMS	P2	Hansika Kularatne	Completed	2/12/2025	2/14/2025

T17	Enable service reminder notifications	P2	Hansika Kularatne	Completed	2/11/2025	2/13/2025
T18	Develop Admin Dashboard Frontend & UI Design	P1	Sachini Ariyarathne	Completed	2/11/2025	2/12/2025
T19	Provide functionality to update customer details (name, contact info, address, etc.)	P1	Sachini Ariyarathne	Completed	2/13/2025	2/14/2025
T20	Allow admins to view all user bookings	P1	Hansika Kularatne	Completed	2/13/2025	2/14/2025
T21	Ensure data validation and error handling for input fields.	P2	Ushan Savindu	Completed	2/13/2025	2/14/2025
T22	Implement a search feature to find customer profiles by name, email, or ID	P3	Ushan Savindu	Completed	2/14/2025	2/15/2025
T23	Allow admins to view customer history, including past modifications and interactions	P3	Hansika Kularatne	Completed	2/14/2025	2/15/2025
T24	Implement search and filters for bookings by user, date, time, and status	P3	Nethsilu Marasinghe	Completed	2/14/2025	2/15/2025

T25	Allow admins to modify, reschedule, or cancel bookings	P3	Safran Zahim	Completed	2/14/2025	2/15/2025

Sprint 2: Feb 15 – Feb 25

Primary Goal

The primary goal of sprint 02 is to enhance user experience by enabling profile management, service history tracking, and AI-driven maintenance recommendations. Users can cancel or reschedule bookings, make online payments, and select preferred technicians. Live service updates, notifications, and post-service ratings improve engagement. Admins gain tools for user management, booking oversight, and service performance tracking, ensuring efficient operations and customer satisfaction.

Objectives

- Enable users to update profile details and delete their accounts.
- Implement email verification to ensure account validity.
- Develop functionality for users to upload and manage car service history.
- Implement a summary and timeline view for service history tracking.
- Enhance AI capabilities for analyzing car history and predicting potential issues.
- Integrate AI-based recommendations for maintenance schedules and nearest service centers.
- Allow users to cancel or reschedule bookings.
- Implement online payment processing for service bookings.
- Display service center ratings and reviews before booking.
- Enable users to select a preferred technician when booking a service.
- Implement live service status updates and pickup notifications.
- Develop manual and automated notification systems for admins.
- Implement post-service rating reminders for users.
- Allow admins to update booking statuses and generate reports.
- Implement user management features, including account suspension and role management.

- Enable admins to respond to user feedback and track service center performance.

Task List

Task ID	Task	Priority	Assigned To	Status	Start date	End date
T26	Allow users to update profile details (name, contact, etc.)	P1	Safran Zahim	Completed	2/15/2025	2/16/2025
T27	Implement account deletion functionality	P1	Safran Zahim	Completed	2/15/2025	2/16/2025
T28	Implement email verification during registration to ensure account validity	P1	Safran Zahim	Completed	2/17/2025	2/19/2025
T29	Enable users to upload car service history	P2	Nethsilu Marasinghe	Completed	2/16/2025	2/18/2025
T30	Implement a summary view of a car's service history	P2	Nethsilu Marasinghe	Completed	2/19/2025	2/23/2025
T31	Allow users to edit and update individual service entries in the service history	P3	Nethsilu Marasinghe	Completed	2/23/2025	2/25/2025
T32	Display a timeline view of past and upcoming services	P2	Nethsilu Marasinghe	Completed	2/17/2025	2/19/2025

T33	AI analyzes car history and mileage for better recommendations	P2	Ushan Savindu	Completed	2/22/2025	2/25/2025
T34	AI predicts potential car issues based on past data	P2	Ushan Savindu	Completed	2/22/2025	2/26/2025
T35	AI suggests the nearest service center based on location	P2	Ushan Savindu	Completed	2/22/2025	2/26/2025
T36	AI provides a personalized maintenance schedule based on the car's usage and history	P3	Ushan Savindu	Completed	2/22/2025	2/25/2025
T37	Allow users to cancel a booking before the appointment	P0	Sachini Ariyarathne	Completed	2/16/2025	2/17/2025
T38	Implement online payment for services	P2	Sachini Ariyarathne	Completed	2/19/2025	2/22/2025
T39	Enable users to reschedule a booking	P1	Sachini Ariyarathne	Completed	2/16/2025	2/17/2025
T40	Display service center ratings and reviews before booking	P2	Sachini Ariyarathne	Completed	2/18/2025	2/19/2025

T41	Allow users to select a preferred technician, if available, when booking a service	P2	Sachini Ariyarathne	Completed	2/19/2025	2/20/2025
T42	Implement live service status updates (e.g., 'Service Started,' 'Service Completed')	P1	Hansika Kularatne	Completed	2/18/2025	2/20/2025
T43	Notify users when their car is ready for pickup	P1	Hansika Kularatne	Completed	2/15/2025	2/20/2025
T44	Allow admins to send manual or automated notifications	P1	Hansika Kularatne	Completed	2/16/2025	2/22/2025
T45	Implement a reminder for users to rate the service after the appointment	P2	Hansika Kularatne	Completed	2/17/2025	2/22/2025
T46	Enable admins to update the status of a service booking	P1	Safran Zahim	Completed	2/18/2025	2/22/2025
T47	Allow admins to generate reports on service bookings and trends	P2	Hansika Kularatne	Completed	2/16/2025	2/25/2025
T48	Implement user management features, such as suspension of	P3	Sachini Ariyarathne	Completed	2/17/2025	2/25/2025

	accounts or role management					
T49	Allow admins to view and respond to user feedback and reviews on service centers	P2	Nethsilu Marasinghe	Completed	2/16/2025	2/25/2025
T50	Implement a feature to track service center performance, including service completion time and customer satisfaction ratings	P2	Ushan Savindu	Completed	2/16/2025	2/25/2025

Sprint plan

https://docs.google.com/spreadsheets/d/1SkbyuhtA7sEb1Ty9KZfl3HYEDmKmzANNtgq LozYjCGI/edit?gid=0#gid=0