

IS2108

IT Project Management

Drive Happy, Drive Safe.

AUTO CARE AI

GROUP 17



OUR TEAM

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PROJECT OVERVIEW



Project Name: AutoCareAI

Objective: Demonstrate the application of Scrum Framework, deliverables, collaboration, continuous improvement, and team empowerment in our project.

Methodology: Agile Scrum

Sprint Duration:

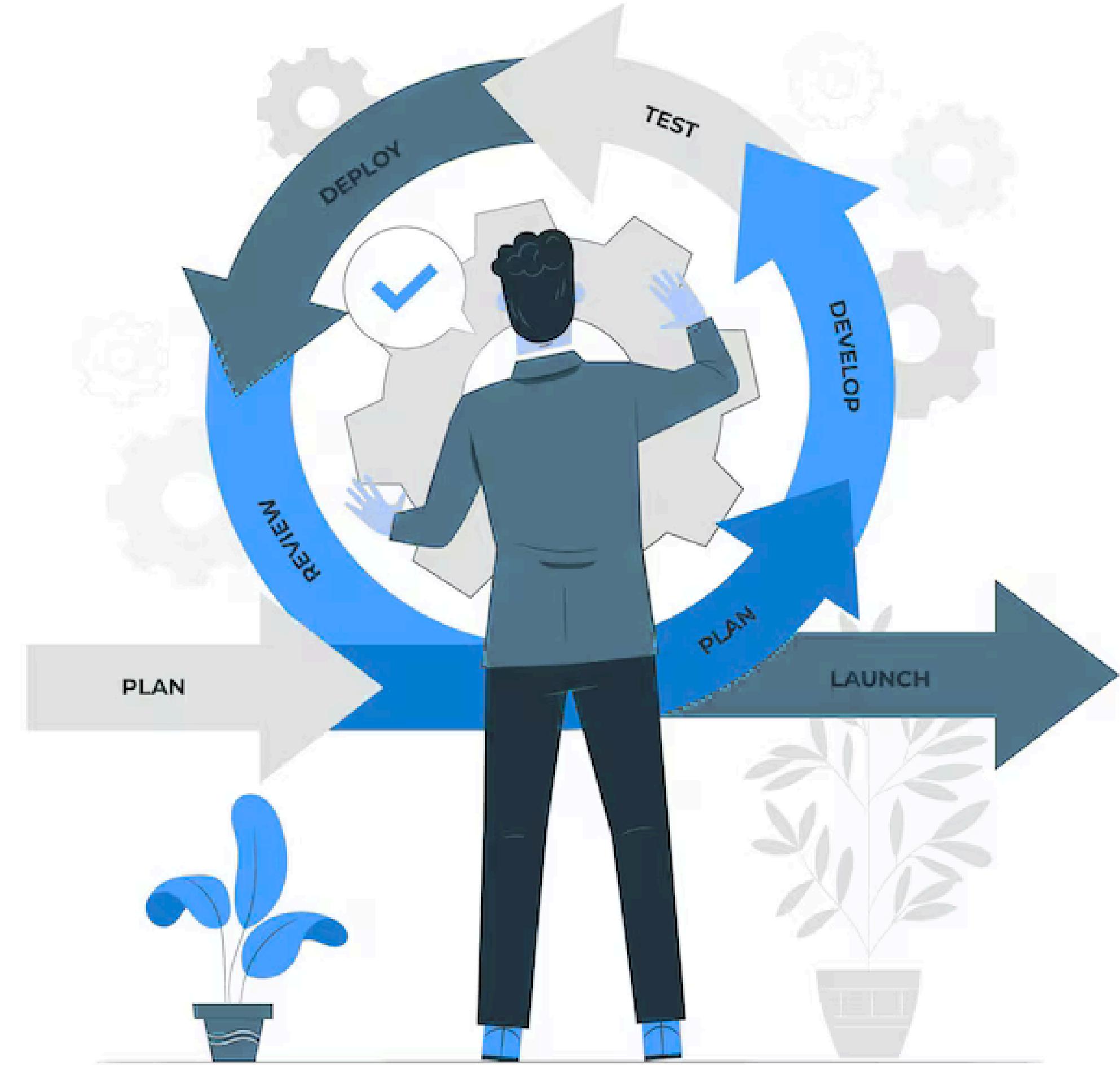
- Sprint 1 (Feb 03 – Feb 14)
- Sprint 2 (Feb 15 – Feb 27)



UNDERSTANDING OF SCRUM FRAMEWORK

DEFINITION

Scrum is an agile framework that enables teams to collaborate, adapt quickly, and improve continuously. Inspired by rugby, it emphasizes self-organization, iterative progress, and structured teamwork. Used in software and other industries, Scrum boosts productivity and streamlines workflows.



SCRUM ROLES



PRODUCT OWNER

USHAN

- Defines product vision, manages backlog, and prioritizes work.

DEVELOPERS

HANSIKA, NETHSILU, SAFRAN

- Self-organizes, builds product increments, and collaborates on tasks.

SCRUM MASTER

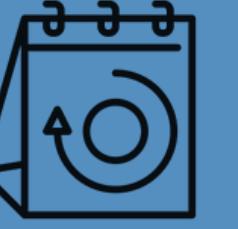
SACHINI

- Facilitates Scrum, removes blockers, and ensures process efficiency.

SCRUM EVENTS



Sprint Planning



Daily Scrum



Sprint Review



Sprint
Retrospective





DELIVERABLES & ARTIFACTS

PRODUCT BACKLOG

Prioritized list of Epics and User Stories.

SPRINT PLAN

Tasks, responsibilities, and timelines for the Sprint.

UI / AI FEATURE DOCUMENTATION

Explains design and AI recommendations.

SPRINT RETROSPECTIVE REPORT

Lessons learned and improvements for the next Sprint.

PRODUCT BACKLOG & USER STORIES

HOW WE MANAGED OUR BACKLOG

- Created Epics such as:

1. User Registration
2. Car Profile Management
3. AI-Driven Service Recommendations
4. Service Booking
5. Notifications & Updates
6. Admin Dashboard

- Broke them into actionable user stories following the format:

"As a [user], I want to [action], so that [benefit]."

- prioritized list of features and user stories

Epic	Priority	Assigned To	Status	Start Date	End Date	Duration
User Registration						
As a user, I want to create an account using my email and password so that I can access the system securely.	P1	Safran Zahim	Not Completed	13th Feb	14th Feb	3 hours
As a user, I want to log in using my credentials so that I can access my dashboard.	P1	Safran Zahim	Not Completed	14th Feb	15th Feb	3 hours
As a user, I want to reset my password via email so that I can regain access if I forget it.	P2	Safran Zahim	Not Completed	15th Feb	22th Feb	2 hours
As a user, I want to update my profile details (name, contact, etc.) so that my information stays accurate.	P3	Safran Zahim	Not Completed	15th Feb	15th Feb	2 hours
As a user, I want to delete my account so that I can remove my data from the system.	P4	Safran Zahim	Not Completed	15th Feb	28th Feb	1 hour
Car Profile Management						
As a user, I want to add my car details (make, model, year, mileage) so that I can receive personalized service recommendations.	P1	Nethsili Marasinghe	Not Completed	14th Feb	15th Feb	3 hours
As a user, I want to edit my car details so that I can update changes in my vehicle information.	P1	Nethsili Marasinghe	Not Completed	14th Feb	16th Feb	3 hours
As a user, I want to upload my car's service history so that the system can track past maintenance.	P2	Nethsili Marasinghe	Not Completed	14th Feb	16th Feb	2 hours
As a user, I want to remove a car from my profile so that I can manage my list of vehicles.	P3	Nethsili Marasinghe	Not Completed	14th Feb	16th Feb	2 hours
As a user, I want to view a summary of my car's service history so that I can track past and upcoming services.	P4	Nethsili Marasinghe	Not Completed	15th Feb	20th Feb	1 hour
AI-Driven Service Recommendations						
As a user, I want to enter my car's details (make, model, year, mileage), so that the AI can provide personalized service recommendations.	P2	Ushan Savindu	Not Completed	15th Feb	22nd Feb	3 hours
As a user, I want the AI to analyze my car's history and mileage so that I receive accurate service recommendations.	P1	Ushan Savindu	Not Completed	15th Feb	22nd Feb	3 hours
As a user, I want AI to suggest the nearest service center based on my location, so that I can book a convenient appointment.	P1	Ushan Savindu	Not Completed	15th Feb	18th Feb	3 hours
As a user, I want the AI to predict potential car issues based on past service data, so that I can avoid unexpected breakdowns.	P3	Ushan Savindu	Not Completed	15th Feb	20th Feb	2 hours
As a user, I want the AI to suggest a complete service package based on my car's history, so that I get the most value for my money.	P3	Ushan Savindu	Not Completed	15th Feb	24th Feb	1 hour
As a user, I want to see the reasoning behind each AI recommendation so that I understand why a service is suggested.	P2	Ushan Savindu	Not Completed	15th Feb	18th Feb	2 hours
As a user, I want the AI to estimate the cost of recommended services, so that I can plan my budget accordingly.	P1	Ushan Savindu	Not Completed	17th Feb	22nd Feb	3 hours
As a user, I want an AI chatbot to answer my service-related questions, so that I get instant guidance on car maintenance.	P1	Ushan Savindu	Not Completed	15th Feb	22nd Feb	1 hour
Service Booking						
As a user, I want to view available service slots so that I can choose a convenient time.	P1	Sachini Ariyaratne	Not Completed	14th Feb	16th Feb	3 hours
As a user, I want to book a service slot for my car so that I can plan my maintenance in advance.	P1	Sachini Ariyaratne	Not Completed	14th Feb	16th Feb	3 hours
As a user, I want to cancel a booking before the appointment so that I can reschedule if needed.	P2	Sachini Ariyaratne	Not Completed	14th Feb	17th Feb	2 hours
As a user, I want to see service center ratings before booking so that I can choose the best provider.	P3	Sachini Ariyaratne	Not Completed	14th Feb	17th Feb	2 hours
As a user, I want to pay for the service online so that I can complete the booking without visiting the center.	P4	Sachini Ariyaratne	Not Completed	14th Feb	17th Feb	1 hour
As an admin, I want to set booking limits per time slot so that I can manage workload effectively.	P4	Sachini Ariyaratne	Not Completed	14th Feb	18th Feb	2 hours
Notifications & Updates						
As a user, I want to receive booking confirmation via email and SMS so that I have proof of my appointment.	P1	Hansika Kularatne	Not Completed	14th Feb	16th Feb	3 hours
As a user, I want to get reminders for my upcoming service so that I don't forget about my appointment.	P1	Hansika Kularatne	Not Completed	14th Feb	17th Feb	3 hours
As a user, I want to receive live status updates (e.g., "Service Started," "Service Completed") so that I know the progress.	P2	Hansika Kularatne	Not Completed	14th Feb	16th Feb	3 hours
As a user, I want to get a notification when my car is ready for pickup so that I can collect it on time.	P1	Hansika Kularatne	Not Completed	14th Feb	16th Feb	2 hours
As an admin, I want to send manual or automated notifications to users so that I can keep them informed.	P3	Hansika Kularatne	Not Completed	14th Feb	18th Feb	2 hours
As a user, I want to receive service completion reports via email so that I can keep track of my car's maintenance history.	P4	Hansika Kularatne	Not Completed	14th Feb	18th Feb	1 hour
Admin Dashboard						
As an admin, I want to view all user bookings so that I can manage appointments effectively.	P1	Safran Zahim	Not Completed	14th Feb	16 Feb	3 hours
As an admin, I want to update the status of a service booking so that users receive real-time progress updates.	P1	Nethsili Marasinghe	Not Completed	14th Feb	16 Feb	3 hours
As an admin, I want to manage customer profiles so that I can assist with queries and modifications.	P2	Ushan Savindu	Not Completed	14th Feb	17th Feb	2 hours
As an admin, I want to generate reports on service bookings and trends so that I can analyze business performance.	P3	Sachini Ariyaratne	Not Completed	14th Feb	18th Feb	2 hours
As an admin, I want to send notifications to customers so that I can keep them informed.	P3	Hansika Kularatne	Not Completed	14th Feb	18th Feb	1 hour

SPRINT PLANNING

SPRINT 1 GOALS

1 Implement User Registration & Authentication with email verification.

2 Develop Car Profile Management (Add, Edit, and View Car Details).

3 Build AI-driven Service Recommendations UI for future integration.

4 Design and implement Service Booking System UI with basic functionality.

5 Enable Notifications for booking confirmations and reminders.

SPRINT 2 GOALS

1 Enhance AI to analyze car history and predict potential issues.

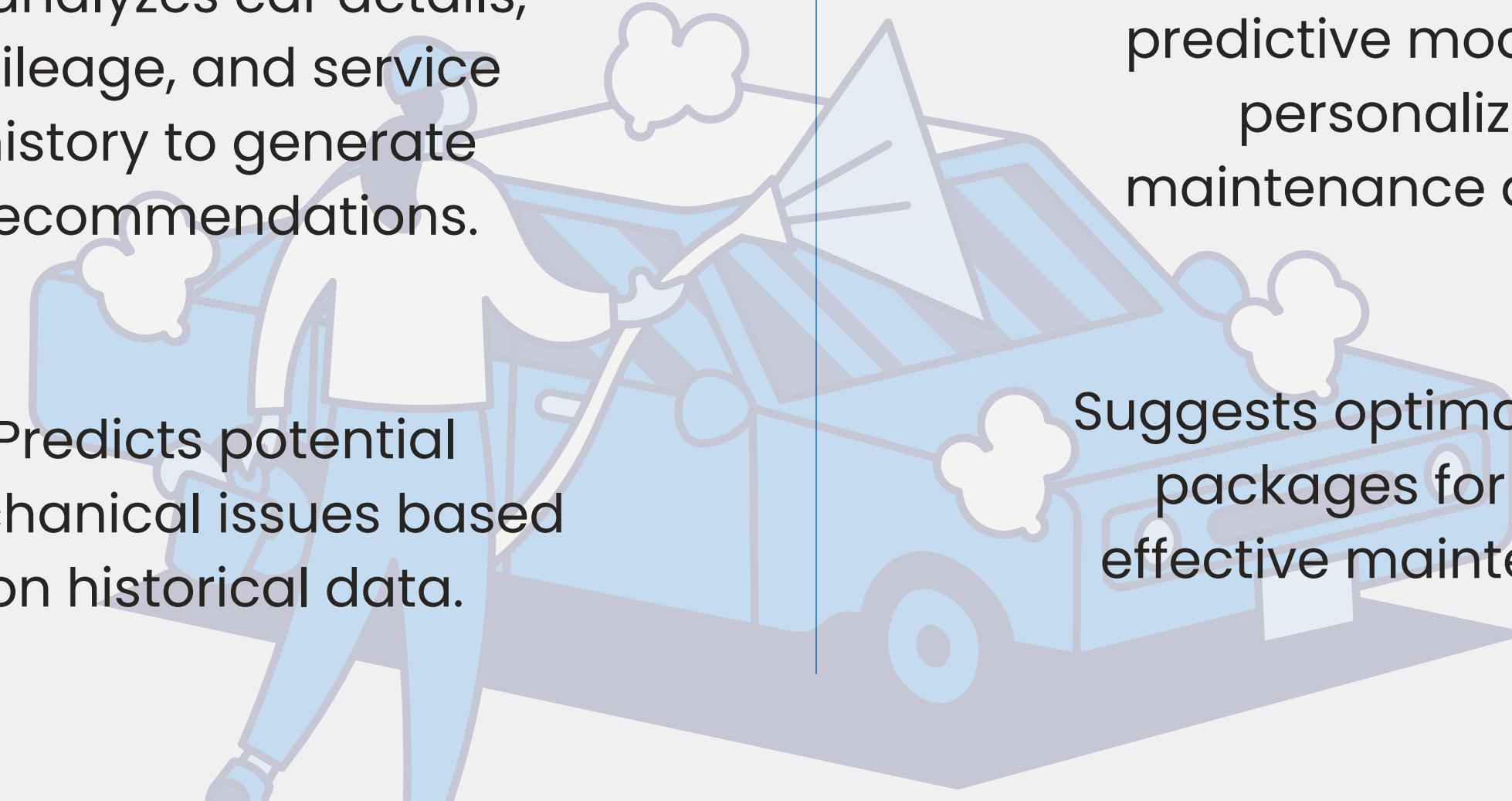
2 Implement Service History Tracking with a personalized maintenance schedule.

3 Integrate Online Payment for booking services.

4 Allow Booking Modifications (Cancellation & Rescheduling).

5 Develop Live Service Status Updates and Admin Dashboard for better management.

AI FEATURE IMPLEMENTATION



AI analyzes car details, mileage, and service history to generate recommendations.

Predicts potential mechanical issues based on historical data.

Estimates service costs using market data and past invoices

Uses machine learning & predictive models for personalized maintenance advice.

Suggests optimal service packages for cost-effective maintenance.

Recommends the nearest service center based on user location.

SPRINT RETROSPECTIVE

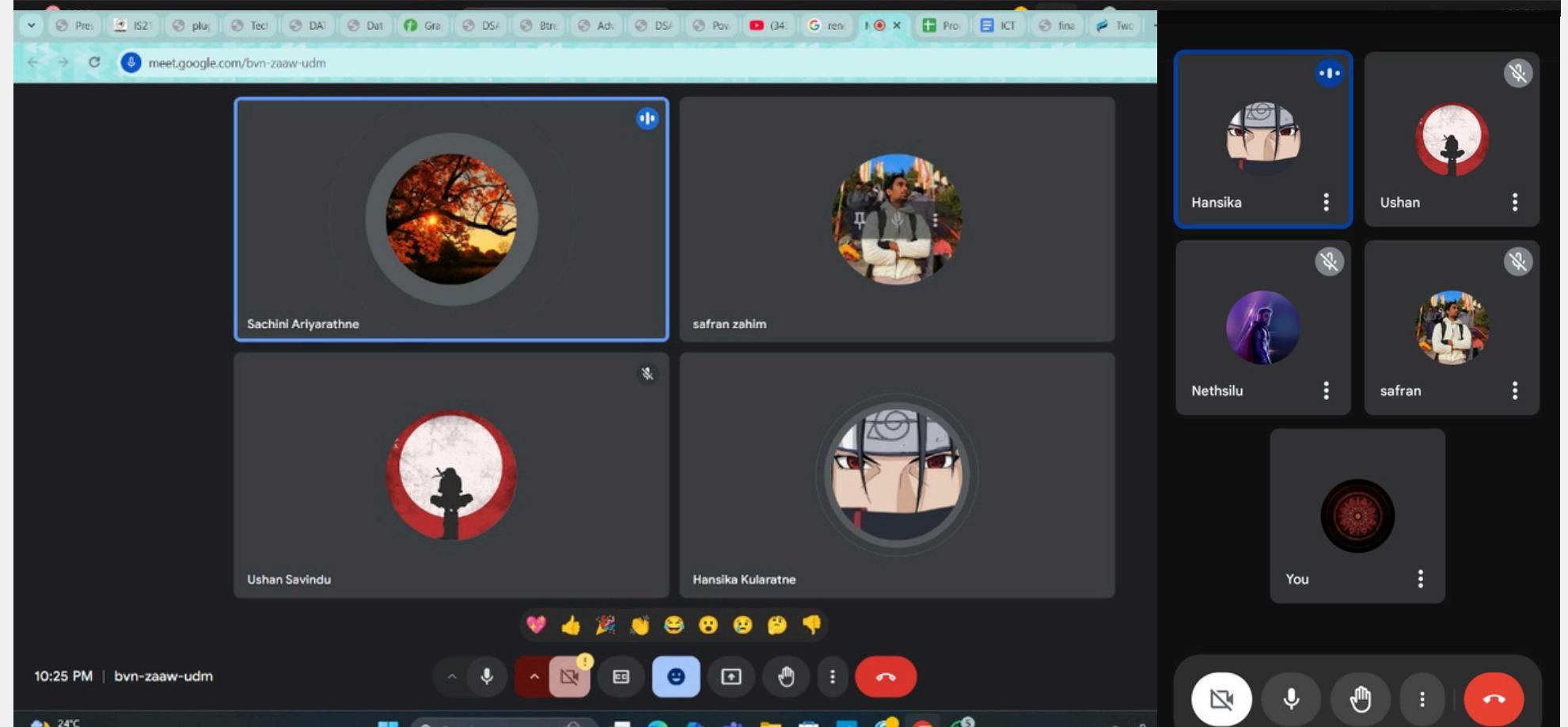
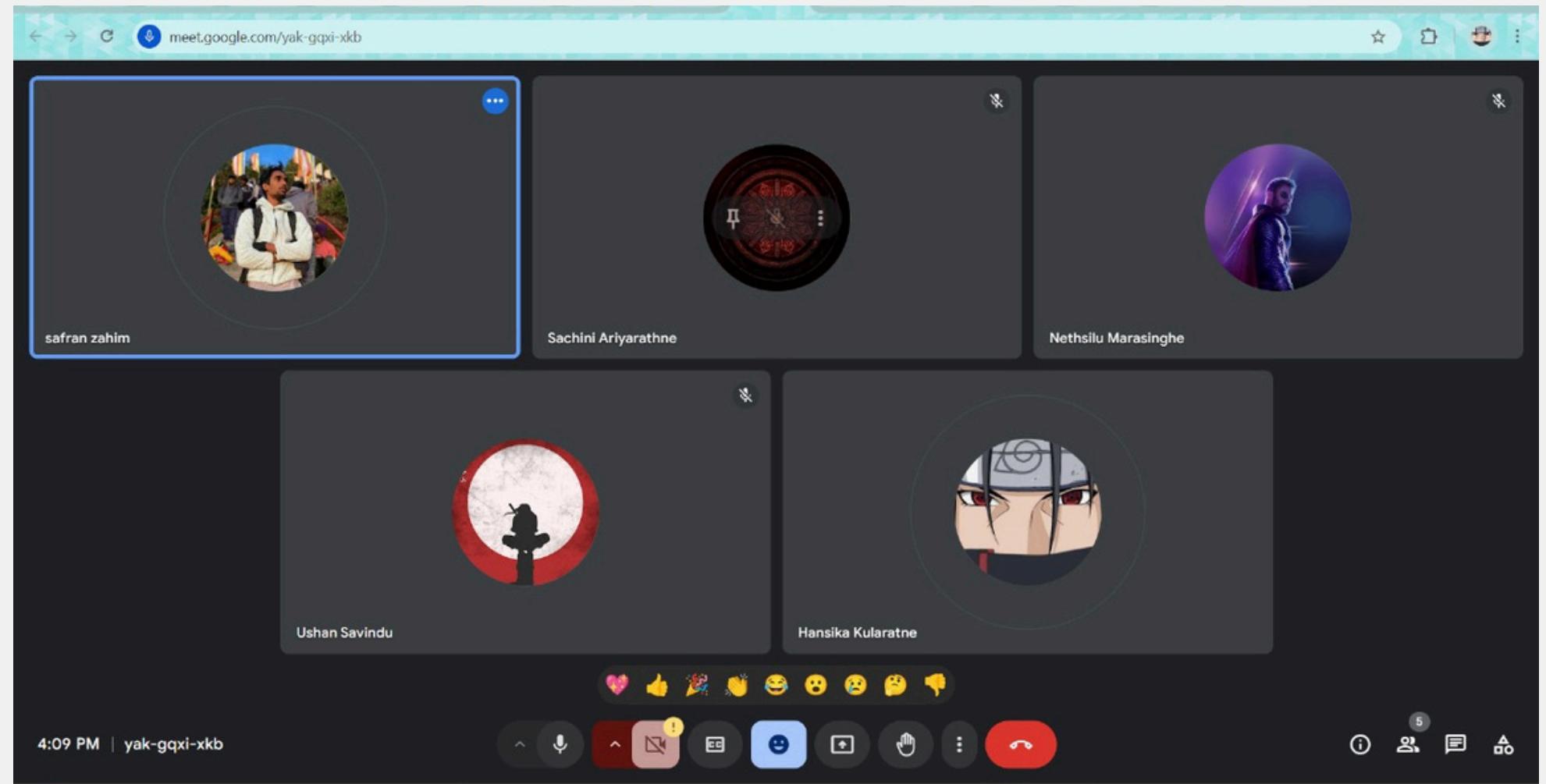
The Scrum Team reviews successes, challenges, and improvements for the next sprint

1. Sprint Goals & Key Deliverables
2. What Went Well?
3. What Didn't Go Well?
4. Key Challenges & Risk Analysis
5. Action Plan for Improvement



COLLABORATION AND COMMUNICATION

- Conducted **Daily Stand-ups** for progress updates (Online and Physical).
- Organized **Sprint Reviews & Retrospectives** to discuss feedback.



THANK YOU