

INFOSYS SPRINGBOARD INTERNSHIP 6.0

FLEET MANAGEMENT AND ROUTE OPTIMIZATION SYSTEM

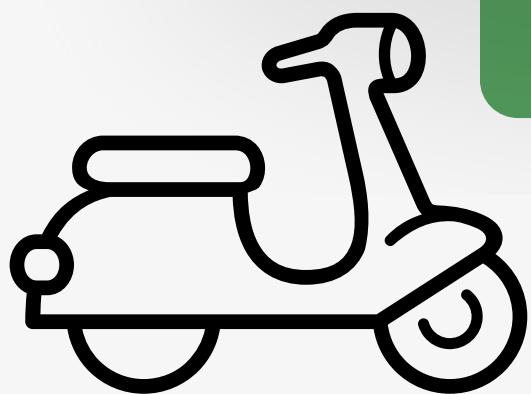
PRESENTED BY : SAGARIKA NAIK



PROBLEM STATEMENT

Managing a fleet efficiently is a major challenge for organizations handling numerous vehicles and drivers. Existing systems are often inadequate because they fail to provide:

1. Unified access to vehicle and driver information.
2. Real-time monitoring and route analysis.
3. Actionable insights on vehicle condition and overall performance.



KEY FEATURES

Driver & Vehicle Management

Add edit and view driver and vehicles details in one place with driver data sync with via Gmail.

Booking Module

Lets you schedule drivers manually using your email for each booking or trip request.

Vehicle Condition Monitoring

Monitors key aspects like engine status, fuel and battery usage.

Route Distance Tool

Calculate the straight line distance between two selected locations(not influenced by traffic conditions).

Analytics Dashboard

Provides visual insights through bar and pie charts that highlight driver activity and overall vehicle health.

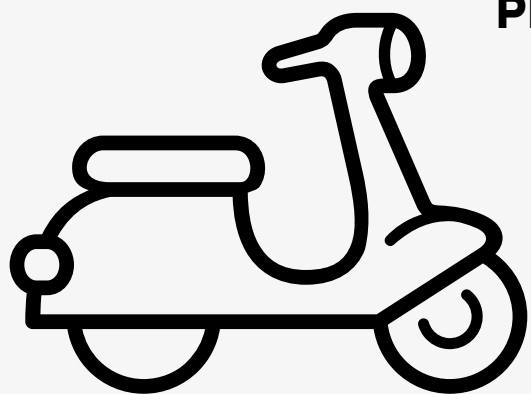
Phase 1

Phase 2

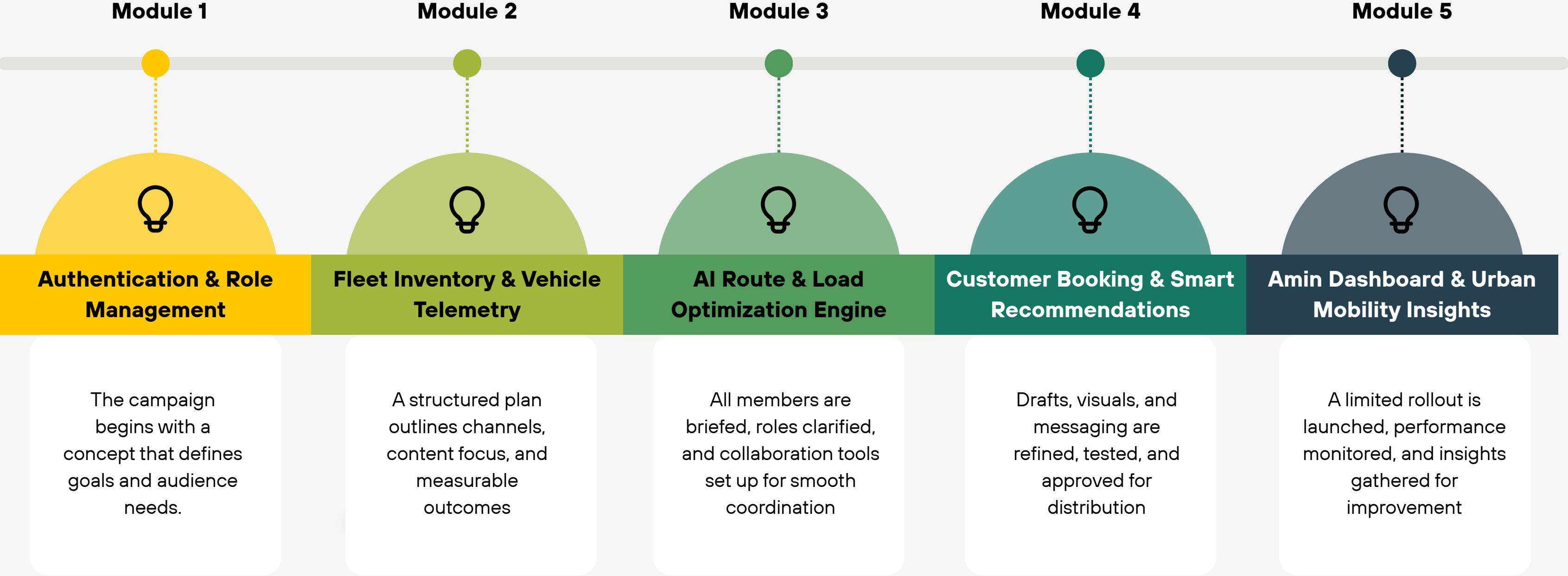
Phase 3

Phase 4

Phase 5



PROJECT MODULE OVERVIEW



LOGIN & REGISTER PAGE

Authenticates and authorizes users.

NEUROFLEET X

Intelligent traffic management.
Reduce congestion, optimize routes, and manage fleets efficiently.

Login

Register

Email

you@example.com

Password

Login

New here? [Create an account](#) →

NeuroFleetX • v1.0.0

Travel safe and fast with Sagarika.

NEUROFLEET X

Intelligent traffic management.
Reduce congestion, optimize routes, and manage fleets efficiently.

Login

Register

Name

Your Name

Role

Admin

Email

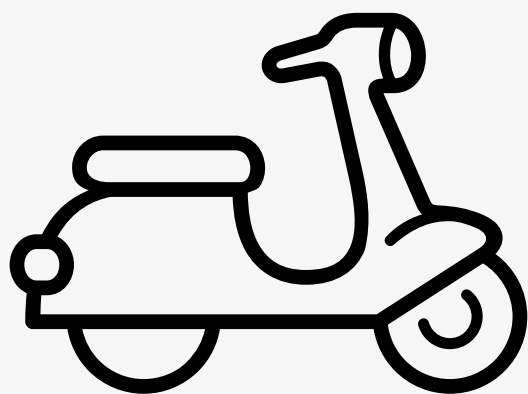
you@example.com

Password

Confirm Password

Register

Step 04



About NeuroFleetX

NeuroFleetX is an AI-powered fleet management platform designed to reduce congestion, optimize vehicle routes, and ensure smarter, safer transportation. Our mission is to transform mobility through intelligent automation and real-time analytics.

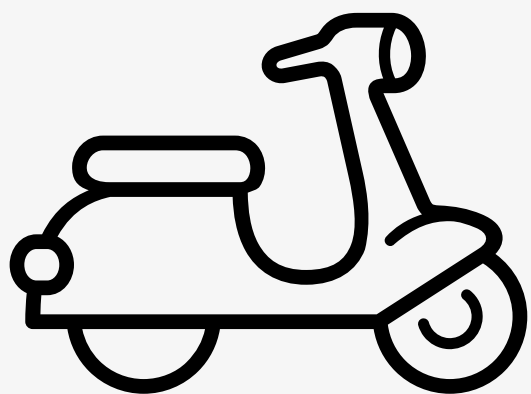
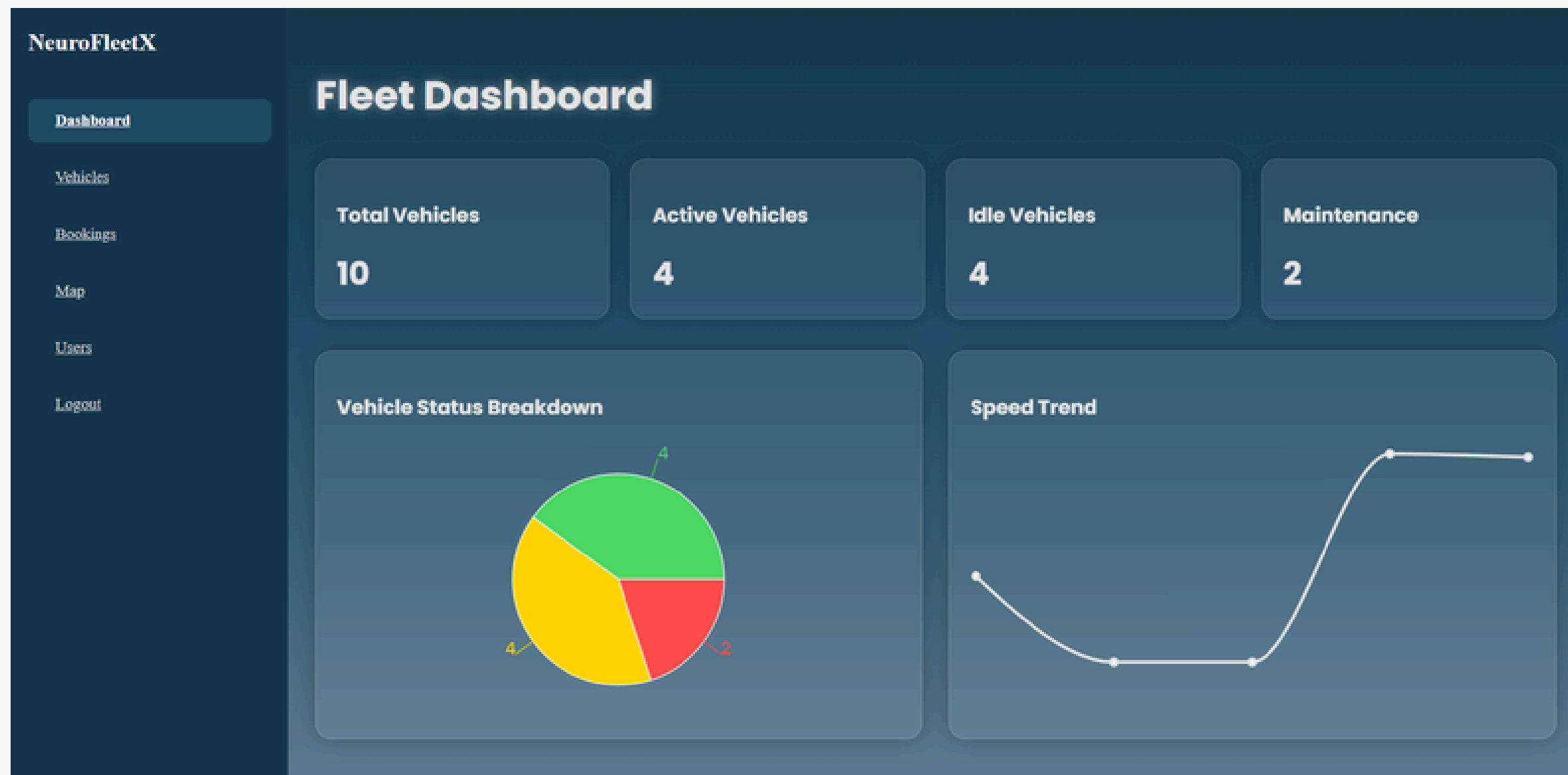
Smart Fleet Tracking
Monitor vehicles in real-time with advanced telemetry.

AI Route Optimization
Reduce travel time and fuel costs with smart routing.

Secure & Reliable
Enterprise-grade authentication and data protection.

FLEET DASHBOARD

Displays vehicles availability through graphs.



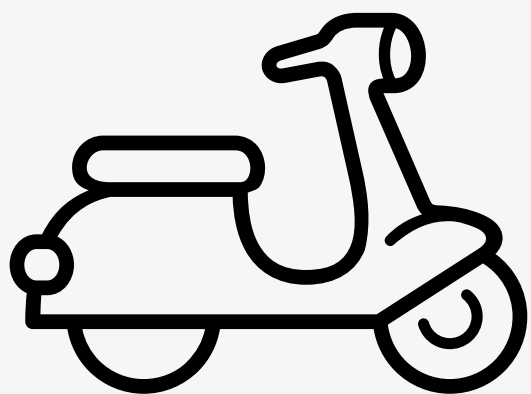
VEHICLE DASHBOARD

Displays all vehicles, add/remove functionality.

NeuroFleetX

Vehicles Dashboard

PLATE	STATUS	SPEED	BATTERY	FUEL	ACTION
NF-1001	IDLE	21 km/h	<div><div></div></div> 0%	<div><div></div></div> 0%	<button>View</button>
NF-1002	IN_USE	55 km/h	<div><div></div></div> 0%	<div><div></div></div> 0%	<button>View</button>
NF-1003	MAINTENANCE	51 km/h	<div><div></div></div> 0%	<div><div></div></div> 0%	<button>View</button>
NF-1004	IDLE	43 km/h	<div><div></div></div> 0%	<div><div></div></div> 0%	<button>View</button>
NF-1005	IN_USE	27 km/h	<div><div></div></div> 0%	<div><div></div></div> 0%	<button>View</button>
NF-1006	IDLE	17 km/h	<div><div></div></div> 0%	<div><div></div></div> 0%	<button>View</button>
NF-1007	MAINTENANCE	28 km/h	<div><div></div></div> 0%	<div><div></div></div> 0%	<button>View</button>
NF-1008	IN_USE	6 km/h	<div><div></div></div> 0%	<div><div></div></div> 0%	<button>View</button>
NF-1009	IDLE	37 km/h	<div><div></div></div> 0%	<div><div></div></div> 0%	<button>View</button>
NF-1010	IN_USE	40 km/h	<div><div></div></div> 0%	<div><div></div></div> 0%	<button>View</button>



BOOKINGS DASHBOARD

Manual booking using Gmail ID

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Dashboard

Vehicles

Bookings

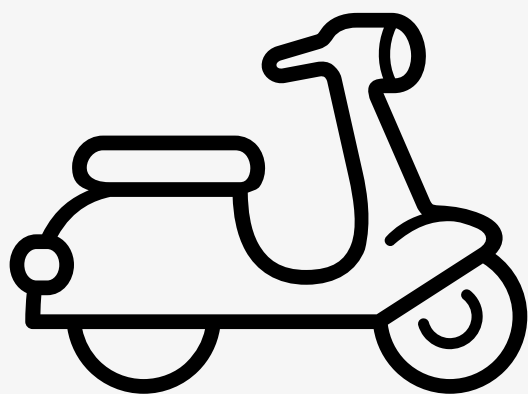
Map

Users

Logout

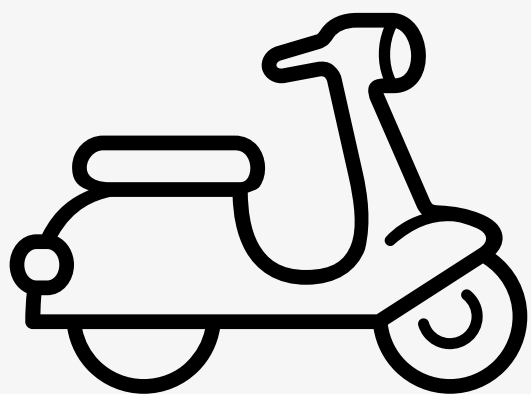
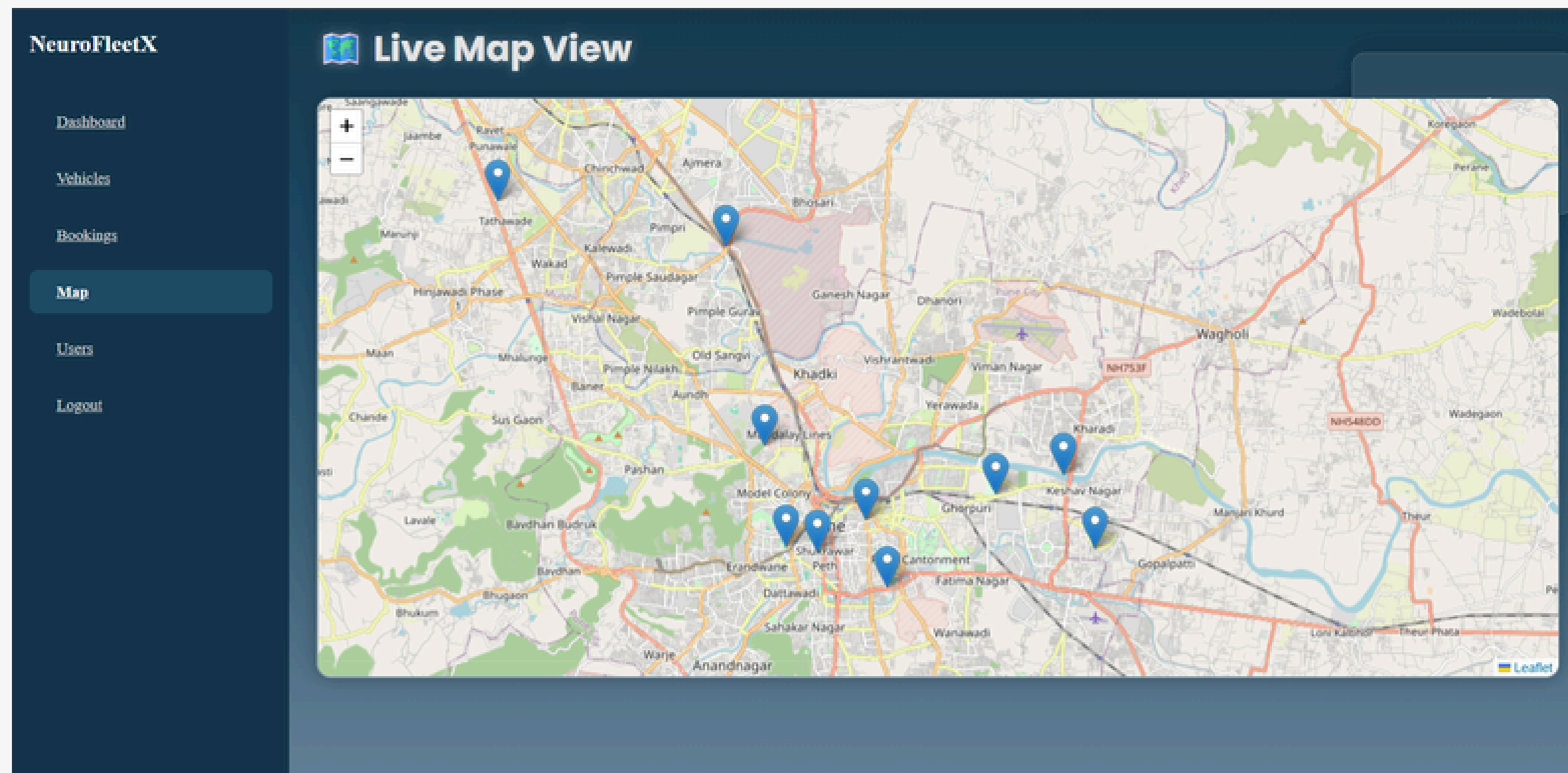
Booking Dashboard

User	Vehicle	Date	Status	Action
Kabir Das	NF-1004	11/20/2024, 3:00:00 PM	COMPLETED	View Details
Customer One	NF-1001	11/28/2025, 2:45:00 PM	COMPLETED	View Details
Aarav Mehta	NF-1002	11/29/2025, 12:50:00 PM	ONGOING	View Details
Kabir Das	NF-1003	11/29/2025, 11:30:00 AM	CANCELLED	View Details
Meera Joshi	NF-1004	11/30/2025, 4:15:00 PM	COMPLETED	View Details
Vivaan Rao	NF-1005	11/26/2025, 7:50:00 PM	ONGOING	View Details
Customer One	NF-1006	11/25/2025, 1:30:00 PM	CANCELLED	View Details
Aarav Mehta	NF-1007	11/24/2025, 4:40:00 PM	COMPLETED	View Details
Kabir Das	NF-1008	11/22/2025, 6:30:00 PM	ONGOING	View Details
Meera Joshi	NF-1009	11/27/2025, 3:10:00 PM	COMPLETED	View Details
Vivaan Rao	NF-1010	11/20/2025, 9:30:00 PM	CANCELLED	View Details



LIVE MAP VIEW

Optimizes routes



USER MANAGEMENT

Admin access the system

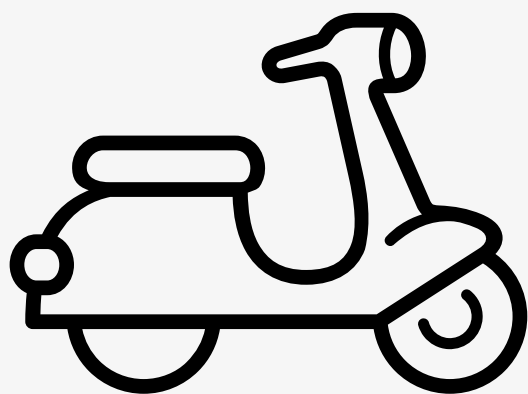
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Users Management

+ Add User

NAME	EMAIL	ROLE	ACTIONS
Admin User	admin@test.com	ADMIN	Delete
Manager One	manager1@test.com	MANAGER	Delete
Customer One	customer1@test.com	CUSTOMER	Delete
Priya Sharma	priya.manager@test.com	MANAGER	Delete
Rahul Verma	rahul.manager@test.com	MANAGER	Delete
Sncha Patil	sncha.manager@test.com	MANAGER	Delete
Aarav Mehta	aarav.customer@test.com	CUSTOMER	Delete
Riya Singh	riya.customer@test.com	CUSTOMER	Delete
Kabir Das	kabir.customer@test.com	CUSTOMER	Delete
Meera Joshi	meera.customer@test.com	CUSTOMER	Delete
Vivaan Rao	vivaan.customer@test.com	CUSTOMER	Delete
Sncha kumari	sncha564@gmail.com	CUSTOMER	Delete

localhost:5173

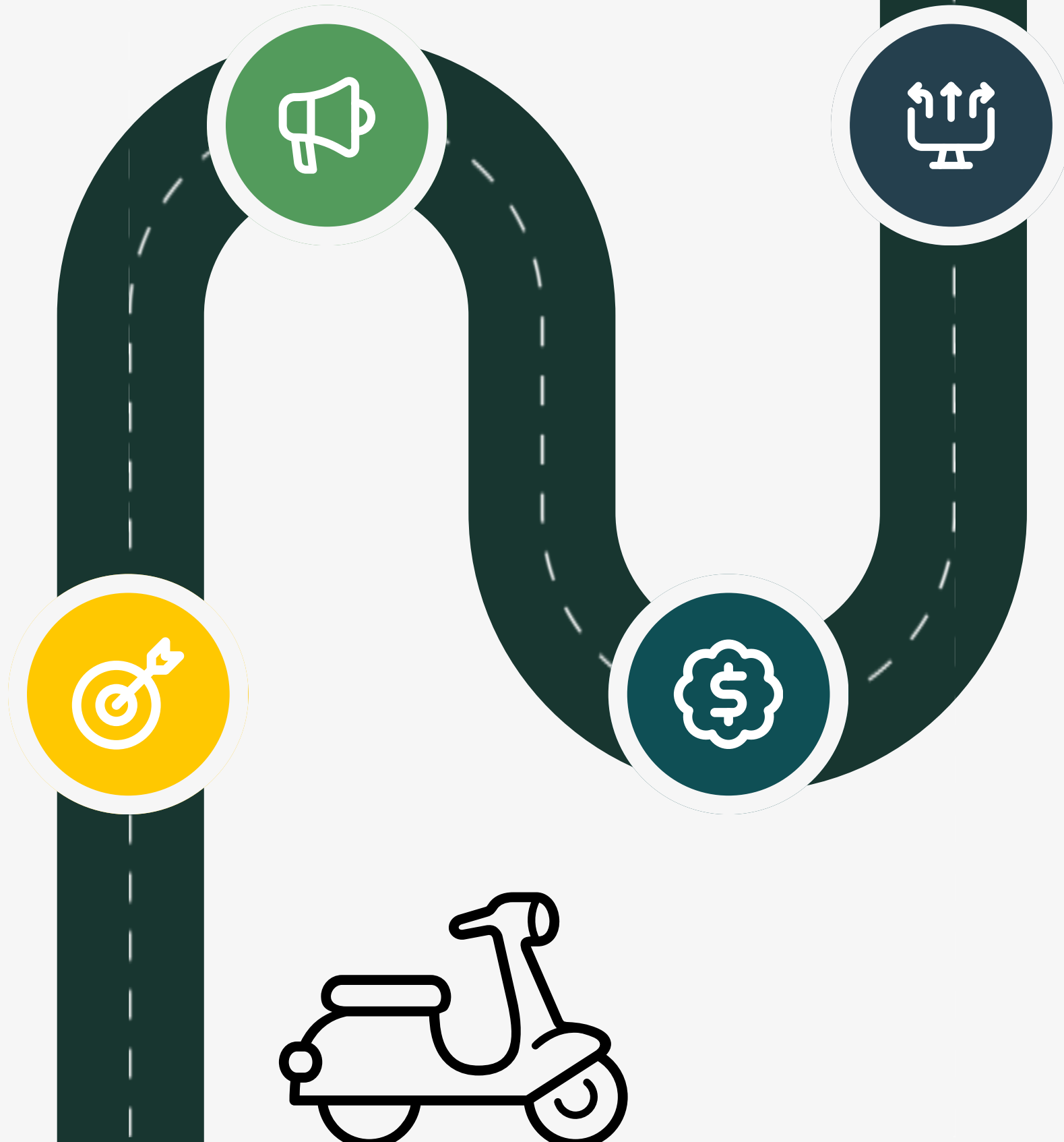


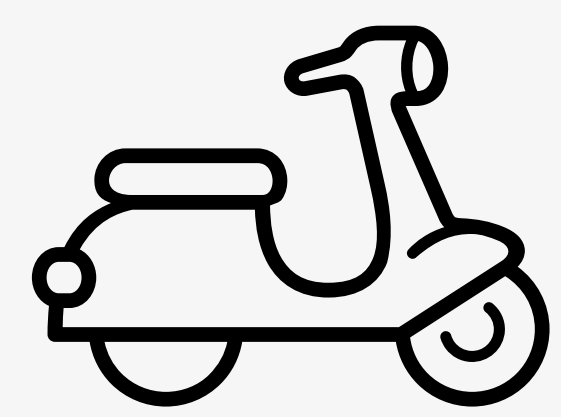
CONCLUSION

The Fleet Management and Route Optimization System effectively illustrates how a modular full-stack architecture can streamline fleet operations.

Key Outcomes

- Integrated management of drivers and vehicles
- Reliable static route planning and trip monitoring
- Data-driven insights through visual analytics
- Scalable architecture prepared for AI-driven enhancements





THANK YOU

