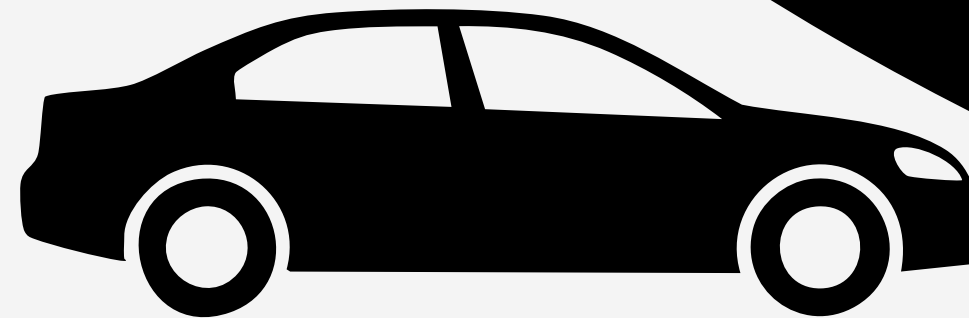


INFOSYS SPRINGBOARD INTERNSHIP 6.0

FLEET MANAGEMENT AND ROUTE OPTIMIZATION SYSTEM

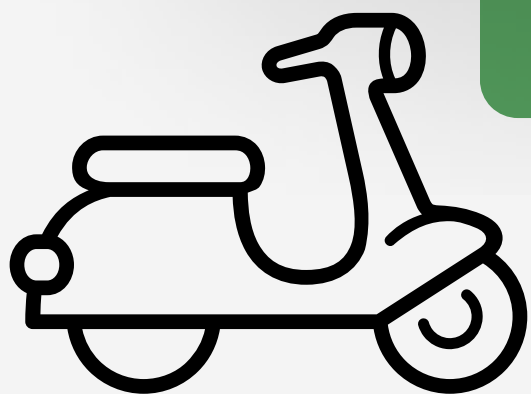
PRESENTED BY : SAGARIKA NAIK



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.

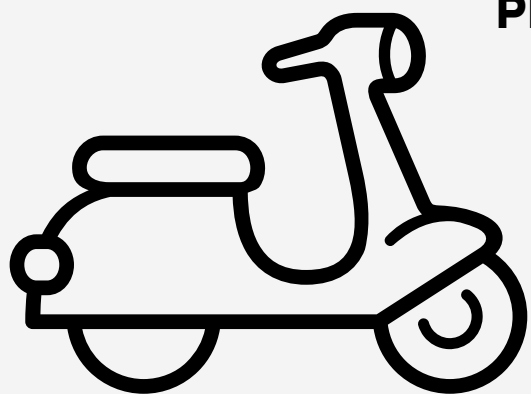
Phase 1

Phase 2

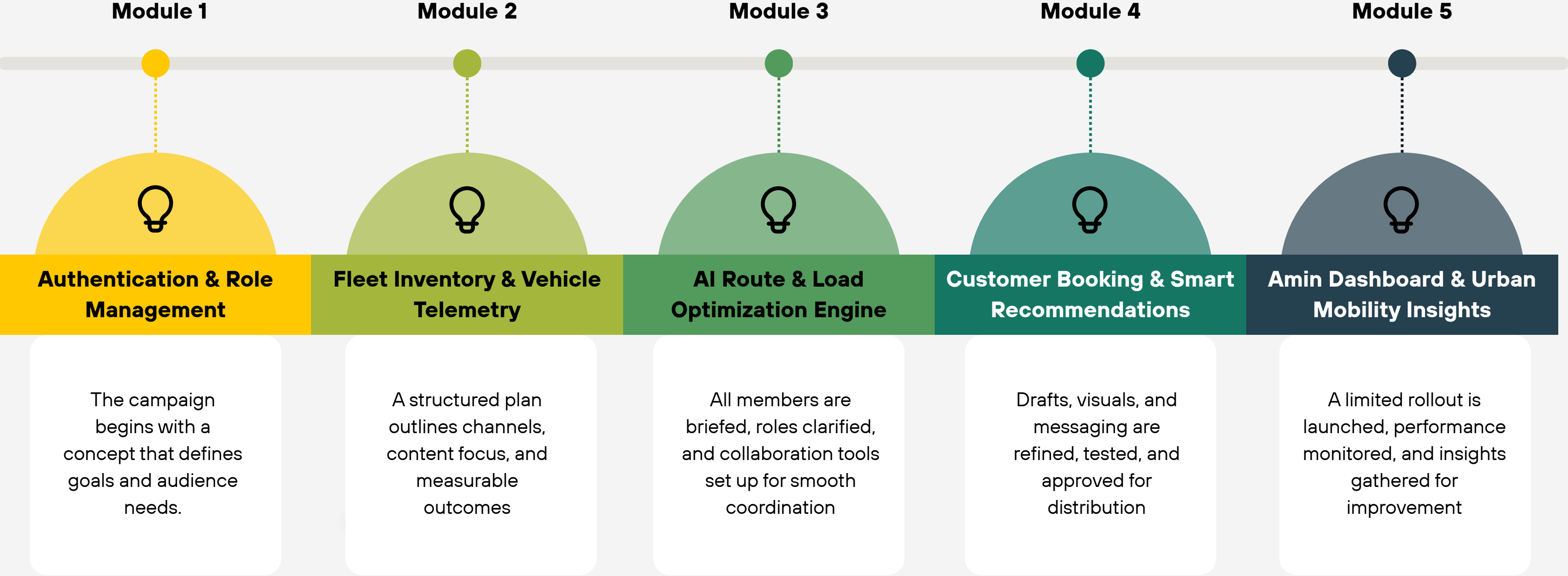
Phase 3

Phase 4

Phase 5

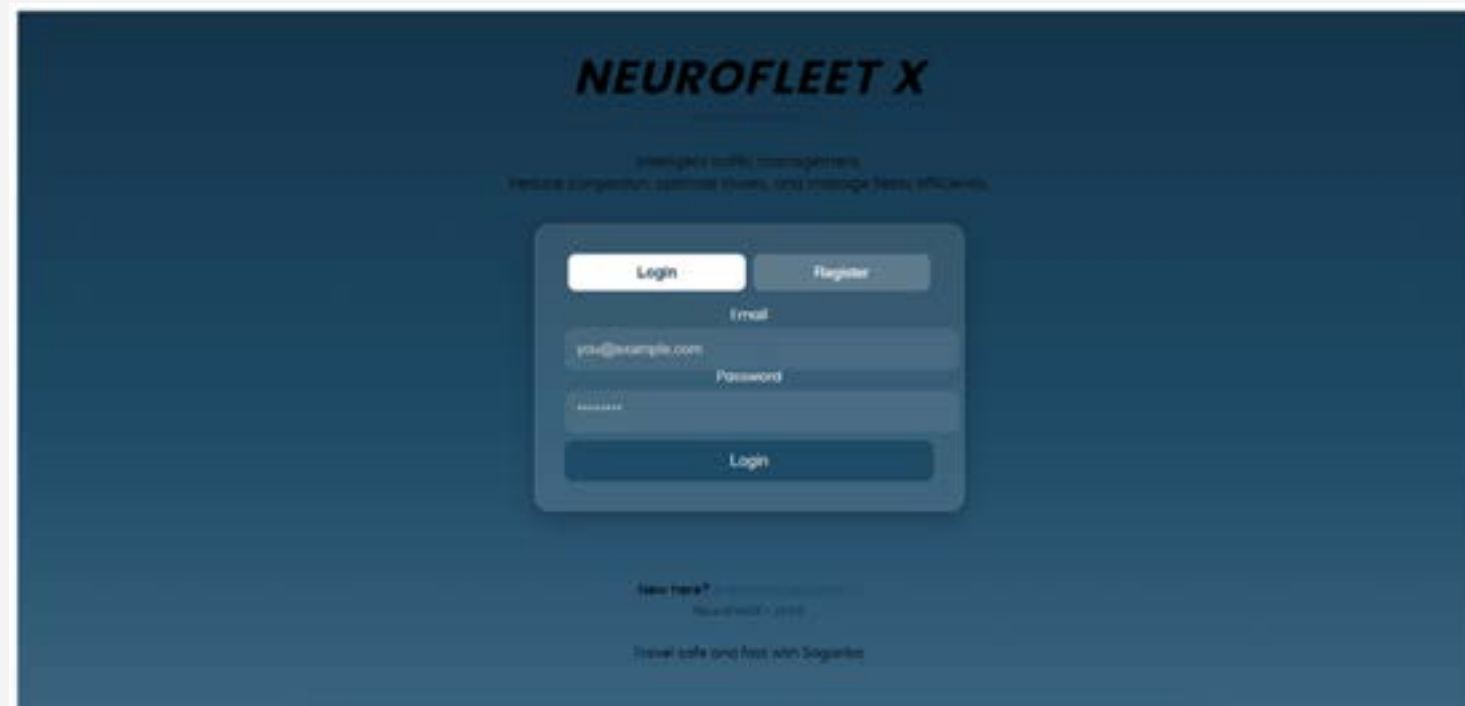


PROJECT MODULE OVERVIEW

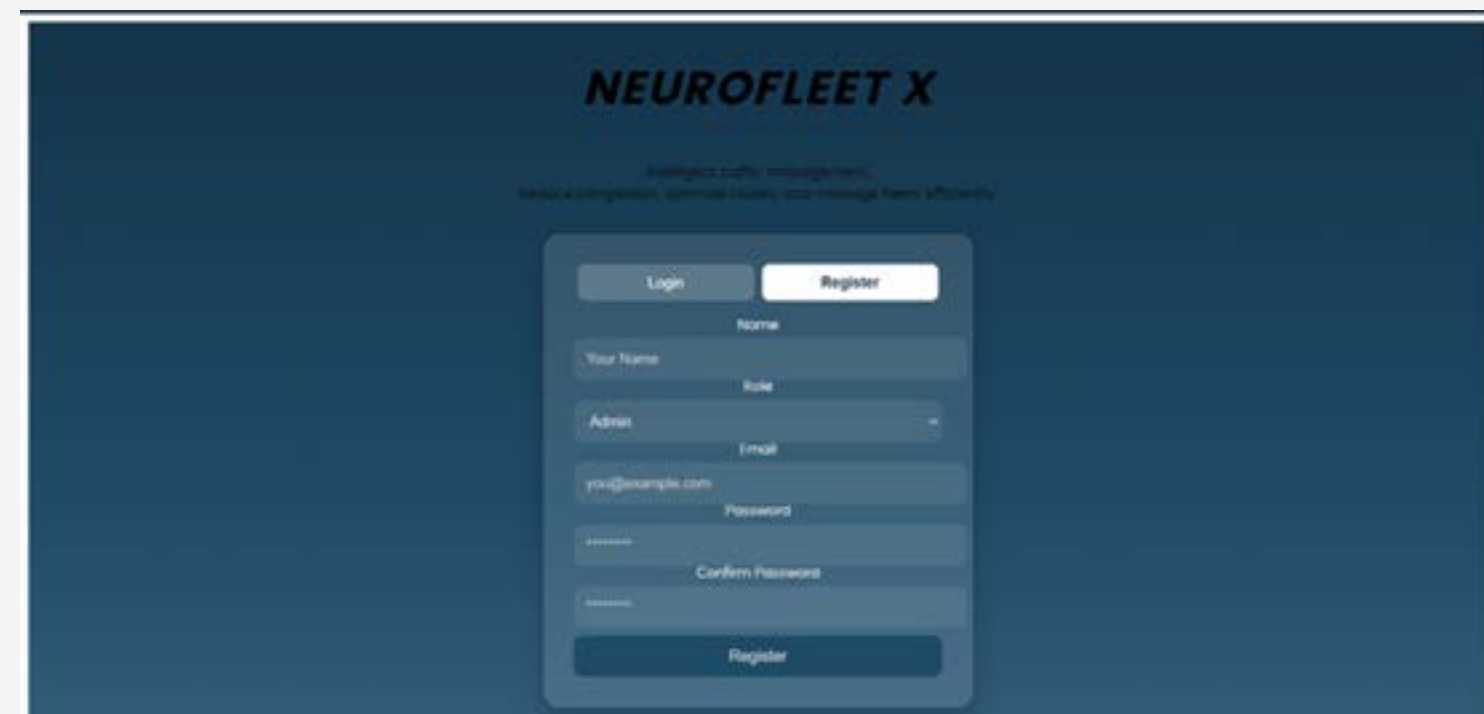


LOGIN & REGISTER PAGE

Authenticates and authorizes users.

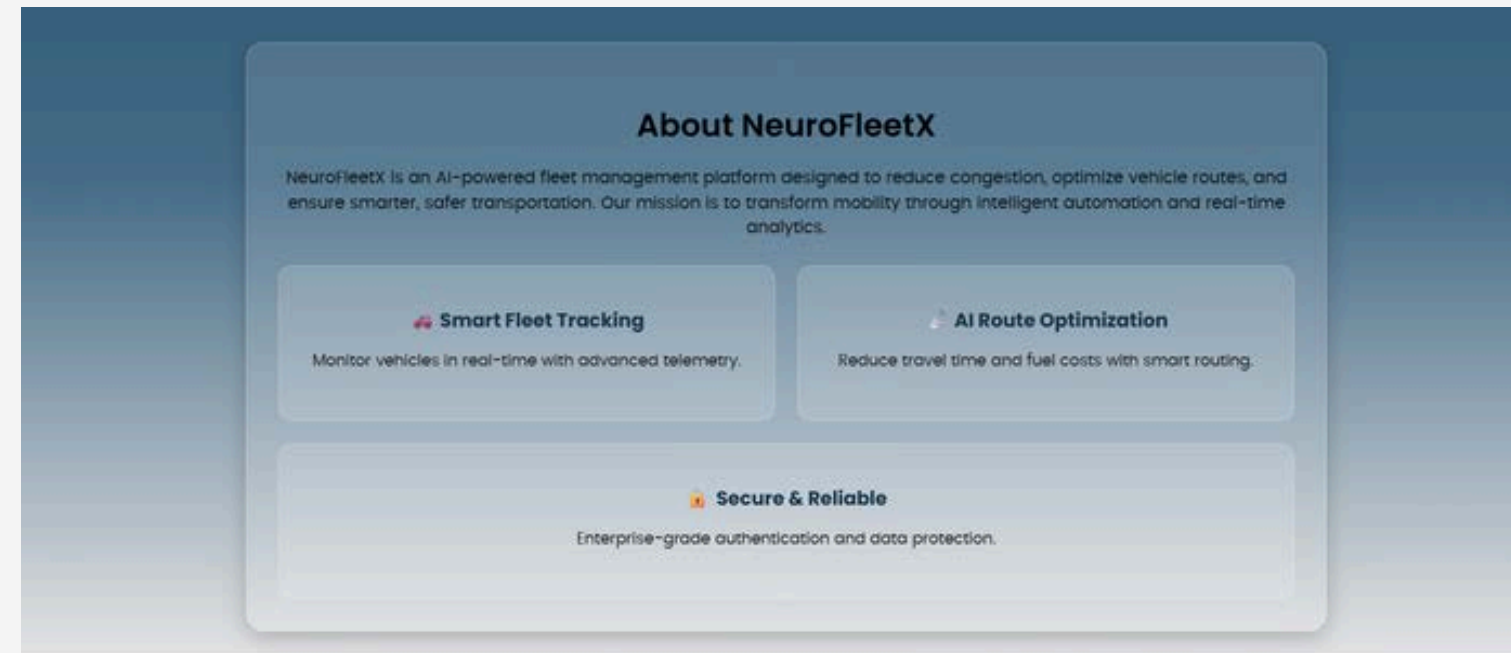
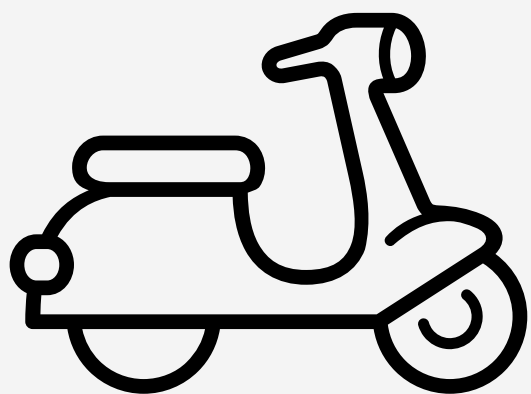


The login page for NeuroFleet X features a dark blue background. At the top, the logo "NEUROFLEET X" is displayed in white, with the tagline "Intelligent traffic management. Reduce congestion, optimize routes, and manage fleets efficiently." below it. The login form is centered and includes a "Login" button and a "Register" button. Below these buttons are input fields for "Email" (containing "you@example.com") and "Password" (containing "password"). A "Login" button is positioned below the password field. At the bottom of the page, there is a link "New here?" and a footer "Travel safe and free with Sagorika".



The register page for NeuroFleet X features a dark blue background. At the top, the logo "NEUROFLEET X" is displayed in white, with the tagline "Intelligent traffic management. Reduce congestion, optimize routes, and manage fleets efficiently." below it. The register form is centered and includes a "Login" button and a "Register" button. Below these buttons are input fields for "Name", "Your Name", "Role", "Address", "Email" (containing "you@example.com"), "Password", "Confirm Password", and a "Register" button.

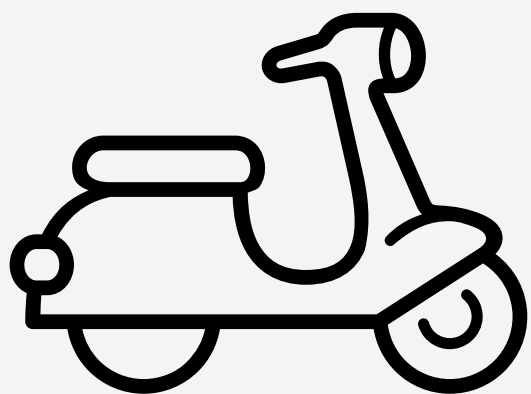
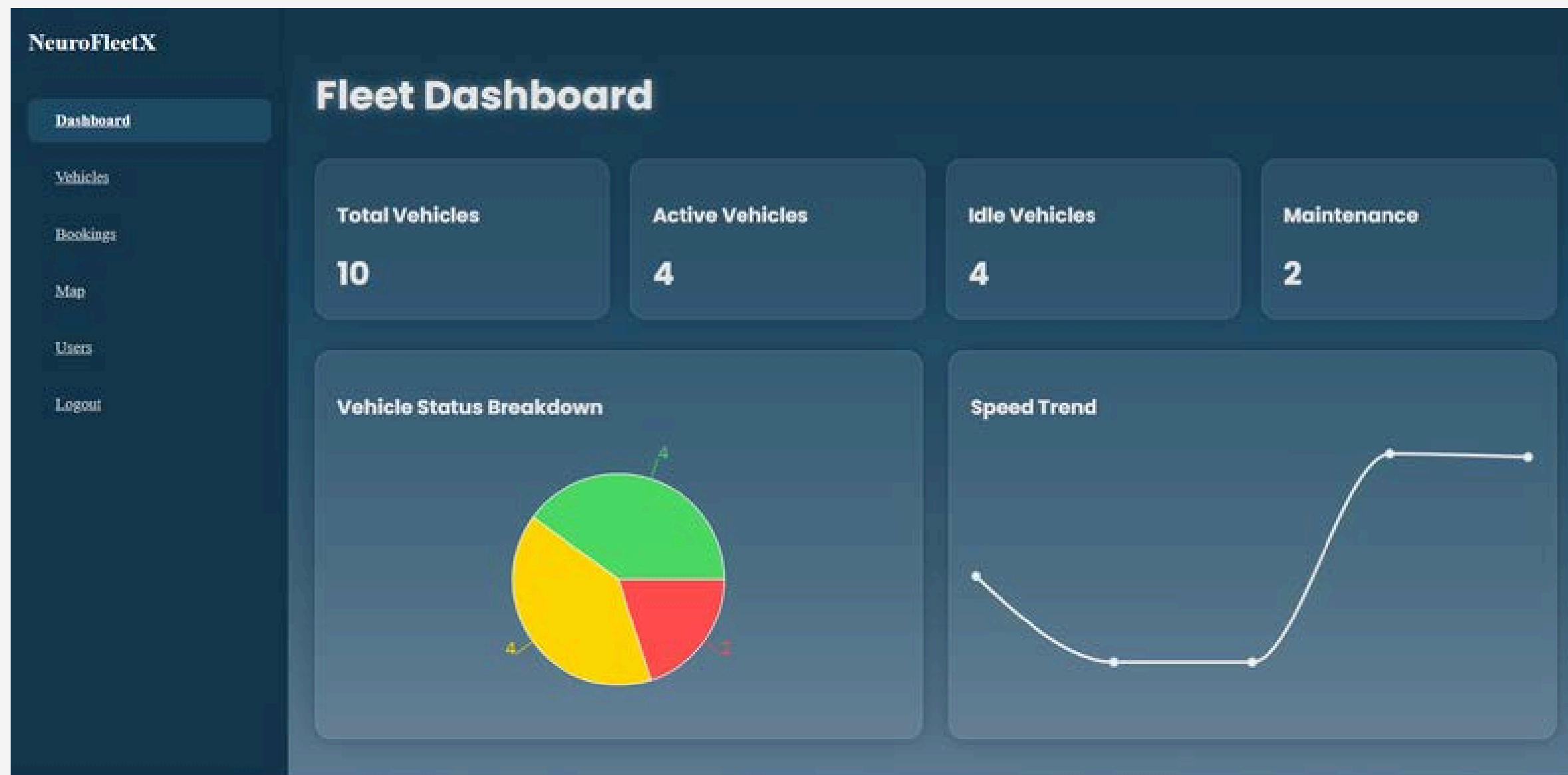
Step 04



The "About NeuroFleetX" page features a dark blue background. The title "About NeuroFleetX" is centered at the top. Below the title is a paragraph: "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." Below this paragraph are three feature boxes: "Smart Fleet Tracking" (Monitor vehicles in real-time with advanced telemetry), "AI Route Optimization" (Reduce travel time and fuel costs with smart routing), and "Secure & Reliable" (Enterprise-grade authentication and data protection).

FLEET DASHBOARD

Displays vehicles availability through graphs.



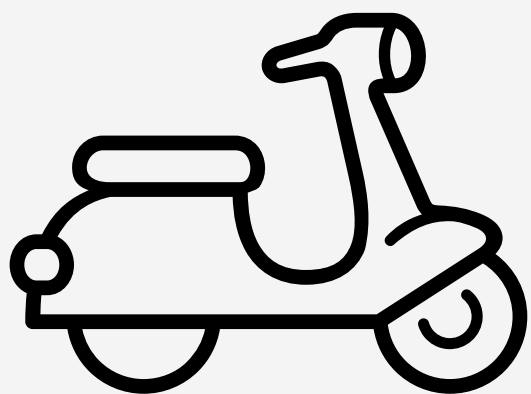
VEHICLE DASHBOARD

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%	View
NF-1002	IN_USE	55 km/h	<div><div></div></div> 0%	<div><div></div></div> 0%	View
NF-1003	MAINTENANCE	51 km/h	<div><div></div></div> 0%	<div><div></div></div> 0%	View
NF-1004	IDLE	43 km/h	<div><div></div></div> 0%	<div><div></div></div> 0%	View
NF-1005	IN_USE	27 km/h	<div><div></div></div> 0%	<div><div></div></div> 0%	View
NF-1006	IDLE	17 km/h	<div><div></div></div> 0%	<div><div></div></div> 0%	View
NF-1007	MAINTENANCE	28 km/h	<div><div></div></div> 0%	<div><div></div></div> 0%	View
NF-1008	IN_USE	6 km/h	<div><div></div></div> 0%	<div><div></div></div> 0%	View
NF-1009	IDLE	37 km/h	<div><div></div></div> 0%	<div><div></div></div> 0%	View
NF-1010	IN_USE	40 km/h	<div><div></div></div> 0%	<div><div></div></div> 0%	View



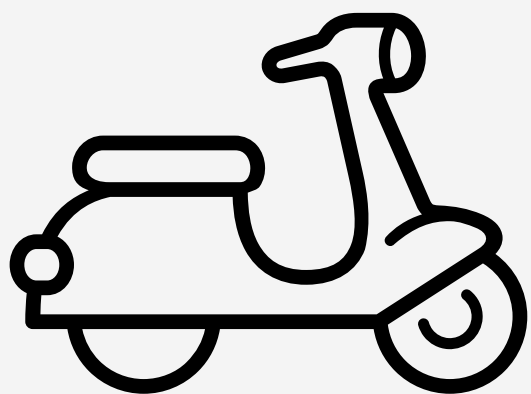
BOOKINGS DASHBOARD

Manual booking using Gmail ID

NeuroFleetX

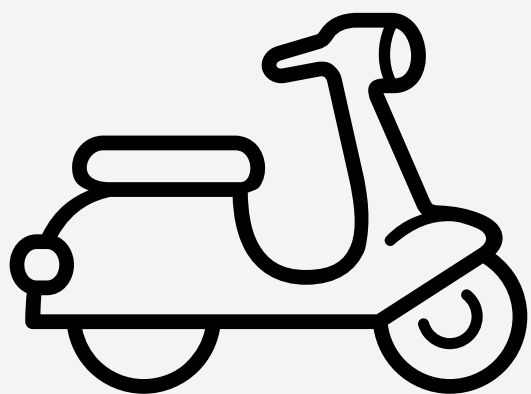
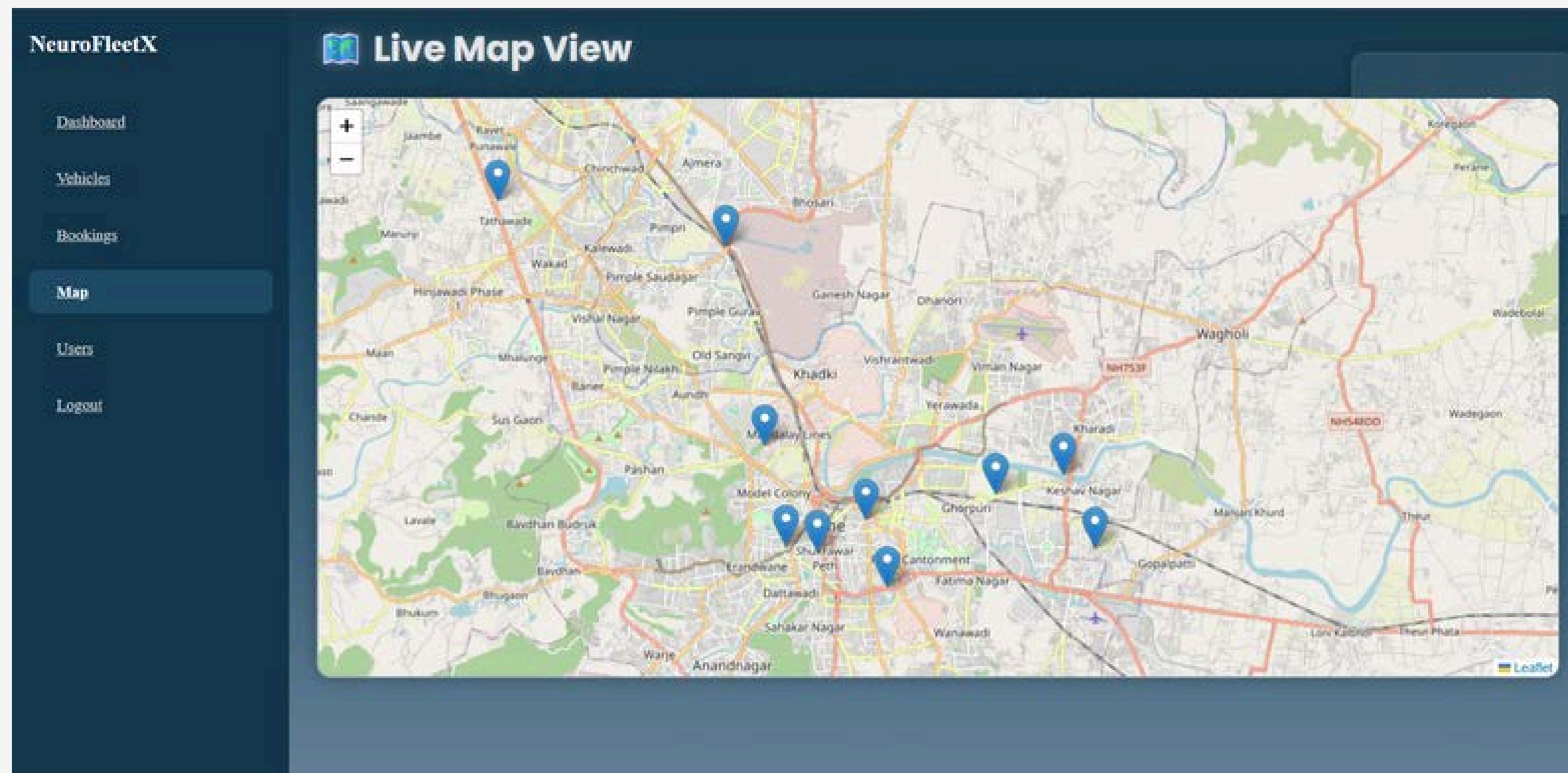
Booking Dashboard

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
Vivian 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
Vivian Rao	NF-1010	11/20/2025, 9:30:00 PM	CANCELLED	View Details



LIVE MAP VIEW

Optimizes routes



USER MANAGEMENT

Admin access the system

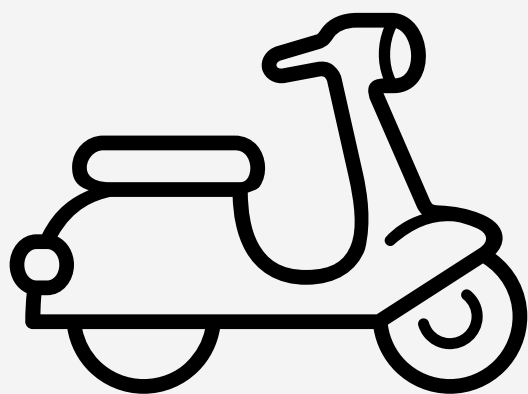
NeuroFleetX

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
Vivian Rao	vivian.customer@test.com	CUSTOMER	Delete
Sncha Kumari	sncha564@gmail.com	CUSTOMER	Delete

localhost:5173

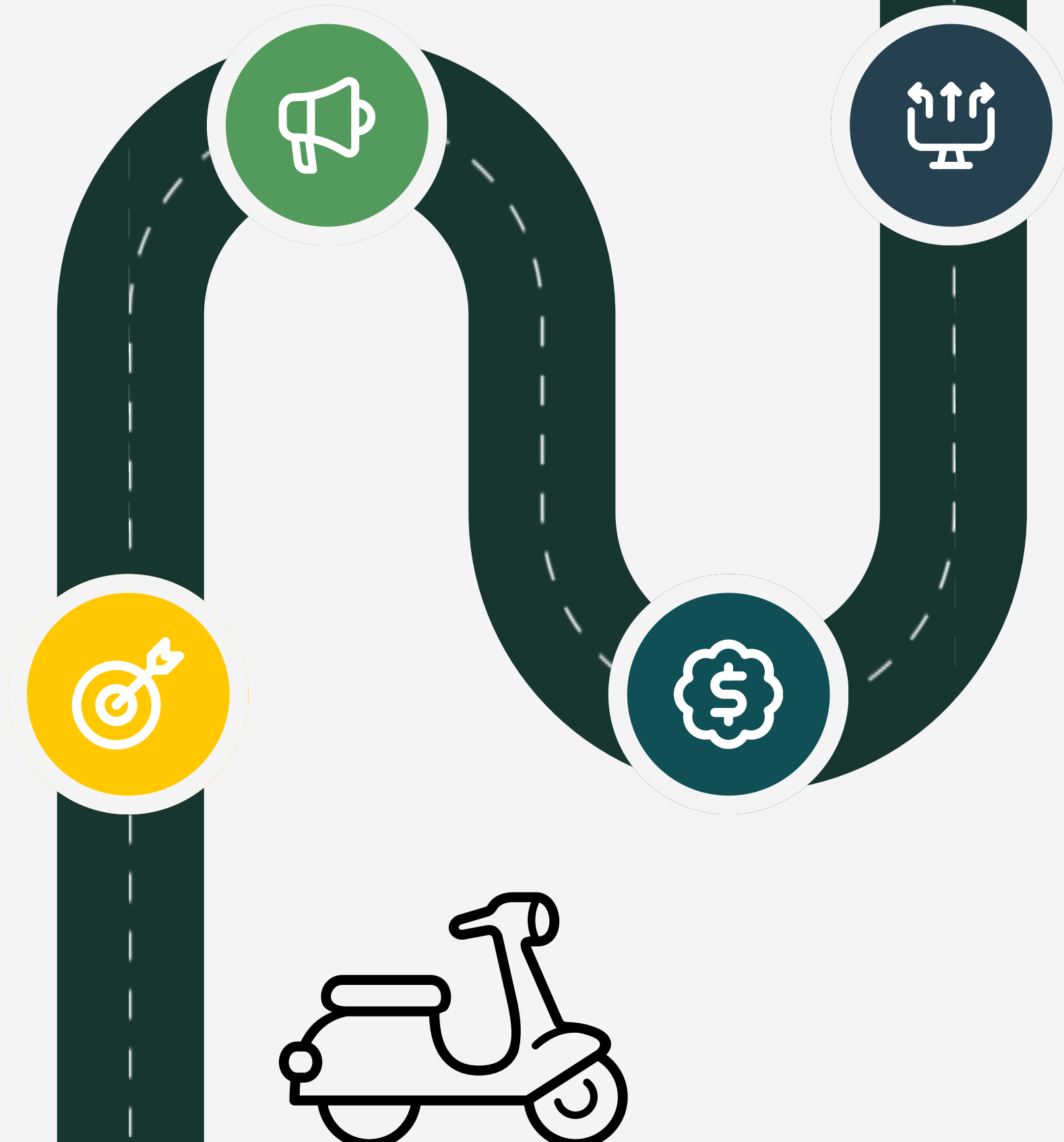


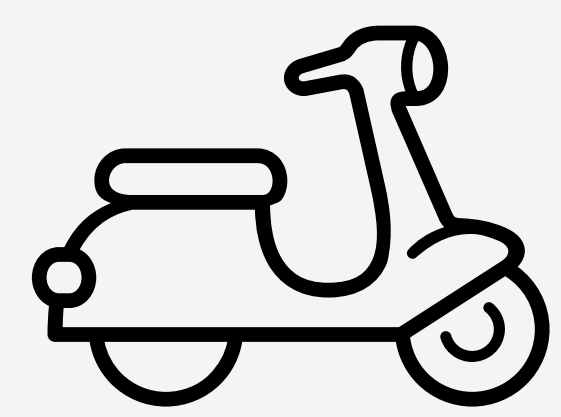
CONCLUSION

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

