

Vessel Operations Web Application

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Showcasing Agentic AI in Maritime Operations

Vessel Operations Web Application

Logistics & Supply Chain

Real-Time Tracking

Shipment	Location
Shipment A	Location 45
Shipment B	Location 78
Shipment C	Location 12

Predictive Forecasting

Shipment	Predicted Delay (hours)
Shipment A	2
Shipment B	4
Shipment C	1

Automated Processing

Shipment	Schedule
Shipment A	Scheduled at 10:00
Shipment B	Scheduled at 14:00
Shipment C	Scheduled at 16:00

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Sustainability Report

Monitoring Data

Fuel Consumption (liters/hour)

Vessel	Fuel Consumption
Vessel A	54.56
Vessel B	67.46
Vessel C	77.18

Emissions (kg CO2)

Vessel	Emissions
Vessel A	146.23
Vessel B	180.80
Vessel C	206.84

Resource Allocation

Vessel	Allocated Resource
Vessel A	Crane 1
Vessel B	Crane 2
Vessel C	Crane 3

Sustainability metrics calculated successfully.

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Vessel Operations Home Dashboard Logistics Sustainability Vessel Operations Chat

Vessel Operations

Manage and monitor vessel operations efficiently.

Vessel Name:

Enter vessel name

Destination:

Enter destination

Submit

Vessel List

Name	Destination	Status
Vessel A	Port X	In Transit
Vessel B	Port Y	Docked
Vessel C	Port Z	Maintenance
Vessel A	Port X	In Transit
Vessel B	Port Y	Docked
Vessel C	Port Z	Maintenance
Vessel A	Port X	In Transit
Vessel B	Port Y	Docked
Vessel C	Port Z	Maintenance
Vessel A	Port X	In Transit

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AI Assistant

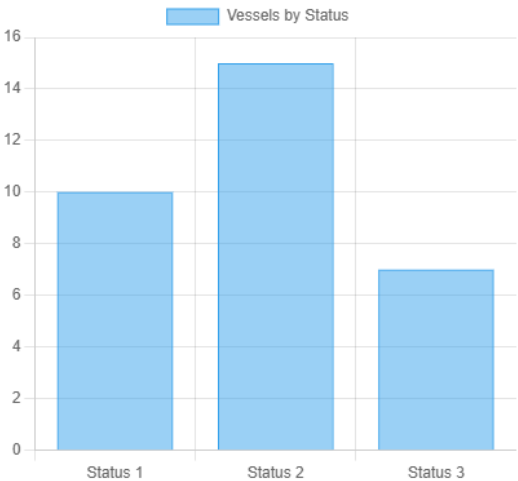
Type your question here...

Send

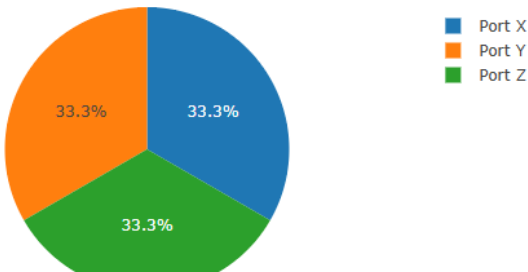


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Vessel Operations Dashboard



Vessels by Destination



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Home Page

The Home page provides a welcoming interface and quick access to all major features of the application.

Dashboard

The Dashboard displays real-time and historical metrics, including vessel status, fuel consumption, emissions, and delays, using interactive charts.

Logistics

The Logistics page offers real-time tracking, predictive forecasting, and automated processing for shipments, improving supply chain visibility.

Sustainability

The Sustainability page reports on fuel consumption, emissions, and resource allocation, supporting green shipping initiatives.

Vessel Operations

This page allows users to manage and monitor vessel operations, submit feedback, and view vessel lists and maps.

AI Assistant (Chatbot)

The Chatbot page integrates an AI assistant to answer user queries, provide operational insights, and support decision-making.

The Importance of Agentic AI

Agentic AI refers to artificial intelligence systems that can act autonomously, make decisions, and proactively optimize operations. In this application, Agentic AI enables:

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- Predictive analytics for traffic, fuel, and maintenance
- Real-time anomaly detection and proactive alerts
- Dynamic resource allocation and route optimization
- Intelligent assistance via the chatbot

By leveraging Agentic AI, maritime operations become more efficient, resilient, and sustainable, reducing costs and improving service quality.