SYNOPSIS OF THE PROJECT

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Project Title	MarineNexus: Comprehensive Maritime Operations Platform

Description of Project: The Admin Dashboard enables efficient management of ship assignments, staff schedules, ticket bookings, and operational analytics, allowing admins to make informed decisions for smooth operations. The Staff Dashboard provides staff with a view of their assigned tasks, ship schedules, and predictive alerts, allowing them to manage their responsibilities effectively. Staff members also have access to information regarding ship arrival times through the Staff Dashboard. The User Portal offers users the ability to search for ships, book tickets, and provide feedback, ensuring a seamless and personalized travel experience. The Ship Efficiency Prediction Module utilizes machine learning to monitor and predict ship efficiency. The Ticket Booking System offers a user-friendly interface for booking tickets with real-time availability, customization options, and secure payment processing, enhancing the travel booking experience. The Crew Allocation Module ensures proper staff assignment to ships, optimizing resource utilization and preventing scheduling conflicts for smooth operations. The Notification System sends timely alerts to users, staff, and admins regarding schedule changes, booking confirmations, and efficiency-related updates, keeping all stakeholders informed.

Feedback Mechanism collects user feedback on their travel experience, enabling admins and staff to identify areas for improvement and enhance service quality. Additionally, the platform includes a Weather Prediction feature to provide accurate forecasts, supporting informed decision-making for ship operations.

Platform	ML based Web Application
Front End Tools	HTML/CSS with JavaScript
Back End Tools	Python Flask
Date of Submission	04/01/2025