

PUBLIC TRANSPORT OPTIMIZATION

USING IOT

PROJECT PHASE - 04

Building your project by developing the platform as per project requirement using web development technologies.

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INTRODUCTION :-

The Internet of Things is a network of physical objects that are embedded with sensors, software, and other technologies for the purpose of connecting and exchanging data with other devices and systems over the internet. IoT has the potential to revolutionize many industries, including public transportation.

Public transport optimization websites are designed to help public transportation systems operate more efficiently and effectively.

The requirements for such a website can vary depending on the specific needs of the transportation system. However, some common requirements include:-

Real-time reporting: Real-time reporting is essential for improving efficiency and service levels. It helps passengers to plan their trips better and avoid delays.



Transportation planning: Transportation planning is a very complicated problem because planners must take into account multiple competing criteria (e.g., service requirements, asset utilization, cost minimization, workload fairness, etc.), components of the transportation system, and their interconnection. Moreover, transportation planners should consider many factors to create efficient plans, including but not limited to vehicle and driver availability, vehicle

size and capacity, traffic details, travel time windows, and passengers' locations.



Optimization: Optimization is the process of finding the best solution to a problem. In the context of public transport optimization websites, optimization can be used to improve the efficiency of public transportation systems by reducing travel time, minimizing costs, and maximizing passenger satisfaction.



Integration: Public transport systems must be planned and operated as a seamless, integrated system. This is particularly important in urban environments where public transport must increasingly compete with private vehicles which offer door-to-door, “one seat” travel irrespective of time of day or day of the week. Successful integration will provide a more customer-friendly experience and make public transport more efficient and cost-effective.



Service planning: Public transportation planning mainly includes short-term (operational) planning, medium-term (tactical) planning, and long-term (strategic) planning. Strategic planning consists of decisions that have an impact lasting many years. Decisions about the locations of terminals and stops are an example of strategic planning. Operational planning consists of problems like designing bus routes, determining frequencies, and scheduling vehicles and drivers. I hope this helps!



THE MODEL OF OUR HOSTED WEBSITE:-

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Gain end-to-end visibility of shipments using digital control towers and in-app tracking. Get proactive alerts/notifications and send customers live tracking links.

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Transportation Management System

Route Optimization and Planning

First Mile Pickup

Mid Mile

Last Mile Delivery

Multi-Carrier Management

On Demand Delivery Management

International Logistics

- Freight Procurement
- Shipment Tracking

BY MICROSERVICES / APIs

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Live Tracking

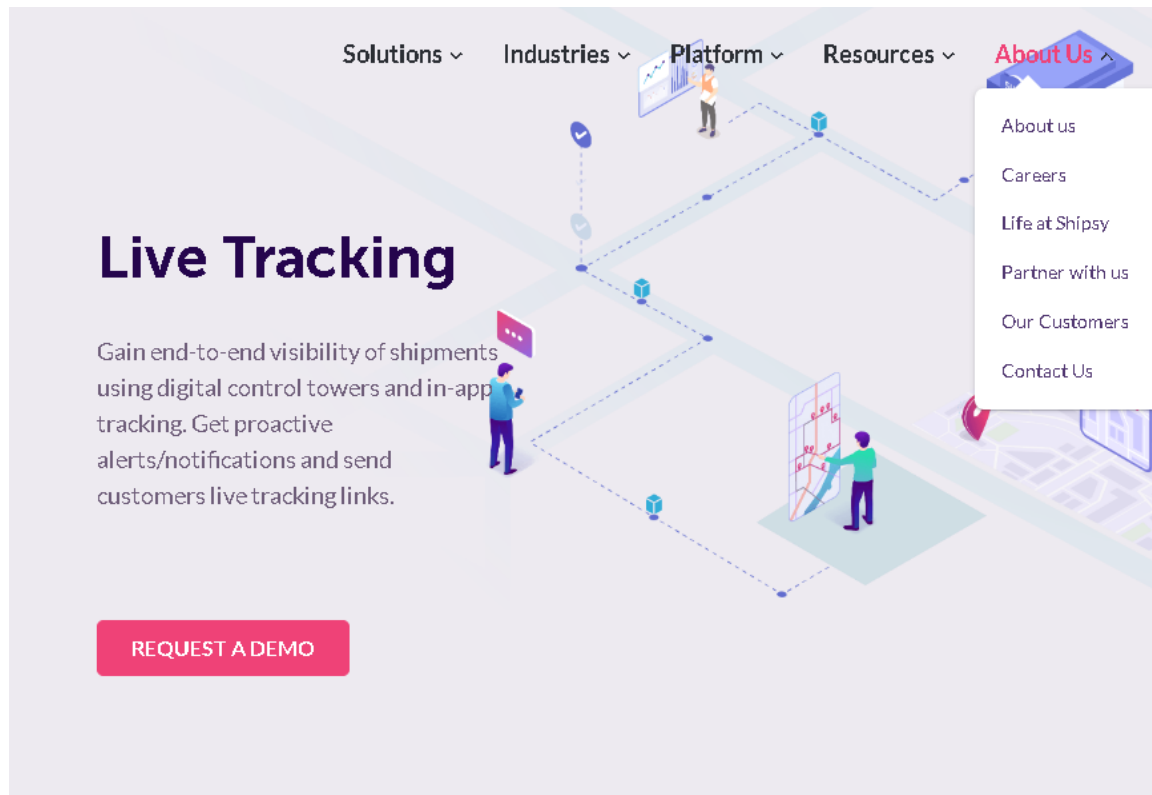
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Live Tracking

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ADVANTAGES OF OUR WEBSITE:-



Low-Code
Integrations



Third-Party
Connectors



No Upfront
Costs



Quick Time to
Implement



Future Ready
Platform



Consultative
Approach

CONCLUSION:-

Those who adapt themselves to this website will find it easy for both overseas and local transportation .

