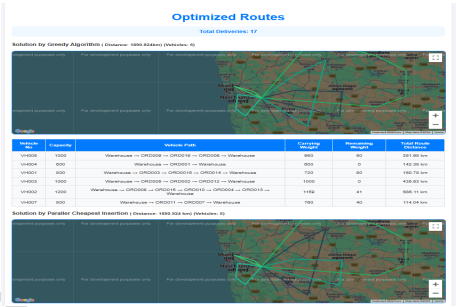
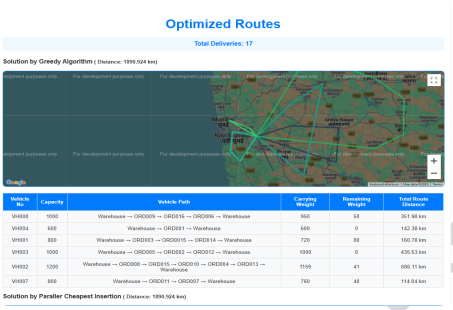
This is a report on the smart path delivery system. This system, likely employing a sophisticated route optimization algorithm, aims to streamline the delivery process by identifying the most efficient path for a vehicle or courier to traverse multiple destinations. It considers various factors such as distance, traffic conditions, delivery time windows, and any specific constraints or requirements. By calculating the shortest possible route, the system minimizes travel time and fuel consumption, leading to significant cost savings and improved operational efficiency. Moreover, ensuring all destinations are visited guarantees that no deliveries are missed, while the return to the starting point optimizes the overall journey and allows for efficient resource allocation and scheduling. This type of system is particularly valuable for businesses with large delivery fleets or those operating in complex urban environments where efficient route planning is crucial for success. Key aspects highlighted in the paragraph: Route Optimization: The core function of the system is to determine the most efficient path. Multi-location Delivery: The system caters to scenarios involving multiple delivery points. Shortest Path: The primary objective is to minimize the total distance or travel time. Delivery Requirements: The system accounts for specific constraints like time windows, delivery priorities, and any special instructions. Complete Coverage: Ensures all destinations are visited, preventing missed deliveries. Return to Origin: Optimizes the overall journey by returning to the starting point. Benefits: Cost savings, improved efficiency, optimized resource allocation. Applications: Valuable for businesses with large delivery fleets or those operating in complex environments. This system has the potential to revolutionize logistics and delivery operations by significantly enhancing efficiency and reducing costs.

| Vehicle No | Capacity | Vehicle Path | Carrying Weight | Remaining Weight | Total Route Distance |
|---|---|---|---|---|---|
| VH008 | 1000 | ORD010 → ORD015 → ORD024 → ORD008 | 999 | 1 | 646.24 km |
| VH005 | 400 | ORD003 | 400 | 0 | 84.06 km |

| | | | | | |
|---|---|---|---|---|---|
| VH006 | 500 | ORD015 → ORD014 → ORD025 | 420 | 80 | 210.16 km |
| VH004 | 600 | ORD001 | 600 | 0 | 142.38 km |
| VH001 | 800 | ORD012 → ORD021 → ORD019 | 800 | 0 | 801.60 km |
| VH003 | 1000 | ORD009 → ORD016 →ORD005 | 990 | 10 | 323.75 km |
| VH002 | 1200 | ORD002 → ORD004 → ORD013 → ORD027 → ORD006 | 1160 | 40 | 648.08 km |
| VH007 | 800 | ORD011 → ORD007 | 760 | 40 | 114.04 km |


Optimized Routes
Total Deliveries: 17
Solution by Greedy Algorithm ( Distance: 1890.924km) (Vehicles: 6)
Solution by Paralller Cheapest Insertion ( Distance: 1890.924 km) (Vehicles: 6)


Optimized Routes
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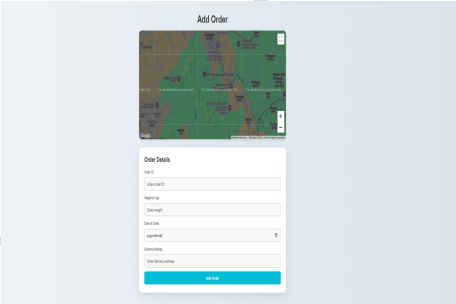
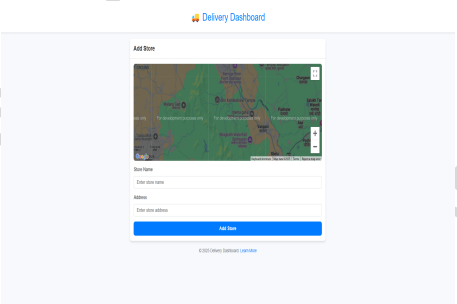

Add Order
Order Details


Delivery Dashboard
Add Store

Hi My name is Sumeet Shinde, Welcome to Smart_Path_Delivery Report