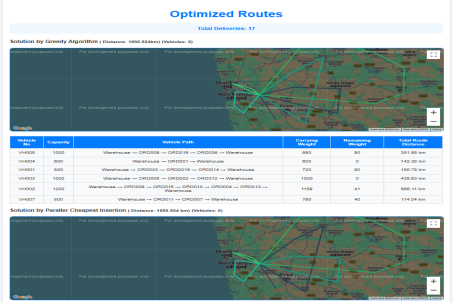
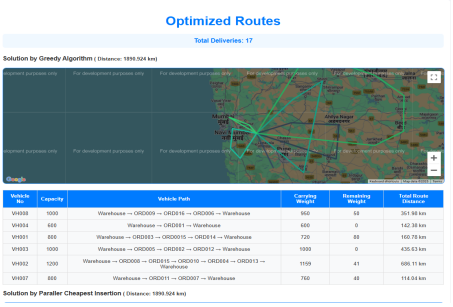
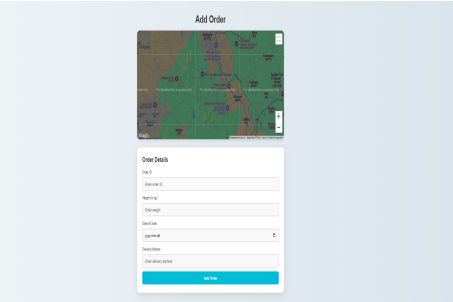
This is a report on the smart path delivery system. This system, likely employing a sophisticated route optimization algorithm, aims to streamline the delivery process by identifying the most efficient path for a vehicle or courier to traverse multiple destinations. It considers various factors such 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.

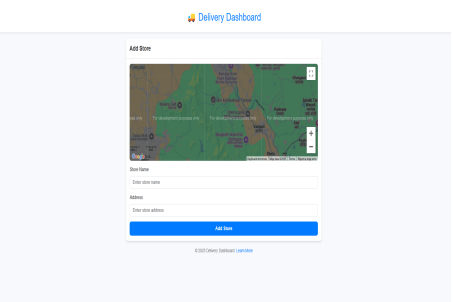
Vehicle No	Capacity	Vehicle Path	Carrying Weight	Remaining Weight	Total Route Distance
VH008	1000	ORD010 → ORD015 → ORD024 → ORD008	999	1	646.24 km
VH005	400	ORD003	400	0	84.06 km

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)
Vehicle No
Capacity
Vehicle Path
Carrying Weight
Remaining Weight
Total Route Distance
VH006
1000
Warehouse → ORD008 → ORD016 → ORD006 → Warehouse
960
40
361.98 km
VH004
600
Warehouse → ORD001 → Warehouse
600
0
142.38 km
VH001
600
Warehouse → ORD003 → ORD018 → ORD014 → Warehouse
720
80
160.78 km
VH003
1000
Warehouse → ORD009 → ORD002 → ORD012 → Warehouse
1000
0
438.63 km
VH002
1200
Warehouse → ORD005 → ORD018 → ORD010 → ORD004 → ORD013 → Warehouse
1159
41
686.11 km
VH007
800
Warehouse → ORD011 → ORD007 → Warehouse
760
40
114.04 km
Solution by Paraller Cheapest Insertion (Distance: 1890.924 km) (Vehicles: 6)


Optimized Routes
Total Deliveries: 17
Solution by Greedy Algorithm (Distance: 1890.924 km)
Vehicle No
Capacity
Vehicle Path
Carrying Weight
Remaining Weight
Total Route Distance
VH008
1000
Warehouse → ORD009 → ORD016 → ORD006 → Warehouse
960
58
361.98 km
VH004
600
Warehouse → ORD001 → Warehouse
600
0
142.38 km
VH001
600
Warehouse → ORD003 → ORD015 → ORD014 → Warehouse
720
88
160.78 km
VH003
1000
Warehouse → ORD005 → ORD002 → ORD012 → Warehouse
1000
0
435.63 km
VH002
1200
Warehouse → ORD008 → ORD018 → ORD010 → ORD004 → ORD013 → Warehouse
1159
41
686.11 km
VH007
800
Warehouse → ORD011 → ORD007 → Warehouse
760
48
114.04 km
Solution by Paraller Cheapest Insertion (Distance: 1890.924 km)


Add Order
Order Details
Add Order


Delivery Dashboard
Add Store
Store Name
Address
Add Store

Hi My name is Sumeet Shinde, Welcome to Smart_Path_Delivery Report