PROJECT SYNOPSIS

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PROBLEM STATEMENTS:

Different algorithms for problems faced in the movers and packers business.

1. To find the minimum number of trucks needed to transport specified packages from one place to another.
2. The shortest way for the trucks from place A to place B.
3. Scheduling the truck drivers for the trips to different destinations.
4. Scheduling the order preference based on the profit margins.
5. Track the order status.
6. Changing the path of an existing order.

SOLUTIONS WE ARE WORKING ON(Algorithm Proposed):

1. Working on the greedy technique to find an algorithm in which we will give the 3D measures of the boxes. And the algorithm will calculate the minimum number of trucks required to transport the packages.
2. We are going for the dynamic programming approach to find the shortest way for the trucks to move from one place to another.
3. Truck scheduling will be done through a backtracking approach where we'll be assigning trucks the starting point and their final destination.
4. We'll be tracking the order through the Least Mean Square Algorithm.
5. We have also planned to optimise the delivery process by changing the path of an existing order through a backtracking approach.If the optimal path has some disturbances then we'll provide an alternate route for the same.