

SALESFORCE DEVELOPER

PROJECT TITLE : WORKFORCE ADMINISTRATION SOLUTION

TEAM ID : NM2023TMID0250

TEAM MEMBERS

PAVITHRA M (611420104054)

DHIVYABHARATHI A (611420104018)

JAYASHREE T (611420104026)

NANDHINEESWARI D (611420104047)

COLLEGE SPOC

MANIMEGALAI M , M.E

FACULTY MENTOR

KOWSALYA N , M.E

PROJECT DEVELOPMENT PHASE :

UTILIZATION OF ALGORITHM, DYNAMIC PROGRAMMING, OPTIMAL MEMORY UTILIZATION

Algorithm Utilization:

Search and Sorting Algorithms: Implement efficient search and sorting algorithms to quickly retrieve and organize employee data, especially in scenarios involving large datasets. This can improve the performance of tasks like finding specific employees or generating reports.

Graph Algorithms: Use graph algorithms to model and analyze organizational hierarchies, reporting structures, and dependencies. This can help in tasks related to team organization, project allocation, and workflow management.

Optimization Algorithms: Apply optimization algorithms for tasks like employee scheduling, workforce planning, and resource allocation. These algorithms can help in making informed decisions to maximize workforce efficiency.

Machine Learning Algorithms: Employ machine learning algorithms for predictive analytics, such as forecasting employee attrition, identifying potential high-performing candidates, or personalizing employee engagement strategies.

Dynamic Programming:

Workforce Forecasting: Dynamic programming can be used to forecast future workforce needs based on historical data, business trends, and various parameters. This ensures that the organization has the right number of employees with the right skills.

Resource Allocation: Dynamic programming can help optimize resource allocation, such as assigning employees to projects or tasks to maximize efficiency and meet specific criteria or constraints.

Leave and Shift Planning: When dealing with complex scheduling scenarios, dynamic programming can be applied to find the best possible schedules while adhering to labor laws and employee preferences.