

Personal Report

Name: Sreelakshmi Nandanamudi

Project: Project 2 – Emergency Vehicle Dispatching System

Write down each group member's contributions in the project, including yourself:

Team Member	Contributions
SreeLakshmi 16244172	<ol style="list-style-type: none">1. Designing idea and workflow2. Sort the distances obtained by using quick sort algorithm and to find the availability of required vehicle in the nearest possible zipcode.3. Unit testing on the implemented part4. Analysis of Time complexity5. Documentation
Sowmya 16246716	<ol style="list-style-type: none">1. Designing idea and workflow2. Sort the distances obtained by using quick sort algorithm and to find the availability of required vehicle in the nearest possible zipcode.3. Unit testing on the implemented part4. Analysis of Time complexity5. Documentation
Sudheesha Reddy 16241536	<ol style="list-style-type: none">1. Designing idea and workflow2. Processing the request by taking the graph input and vehicle availability and giving those to Dijkstra's algorithm to find the distances3. Unit testing on the implemented part4. Analysis of Time complexity5. Documentation
Onica Rayineedi 16241536	<ol style="list-style-type: none">1. Designing idea and workflow2. Processing the request by taking the graph input and vehicle availability and giving those to Dijkstra's algorithm to find the distances3. Unit testing on the implemented part4. Analysis of Time complexity5. Documentation

Write down what you learned:

1. Understanding the requirements and scope of the project.
2. Implementing the Dijkstra's algorithm in java to find the shortest path between the nodes for an efficient solution.
3. Implementation of Quick Sort to find the position of next nearest available zip code
4. Optimizing the algorithm to reduce the time complexity
5. Interaction of webpages is done using servlets and servlet mapping is done using web.xml (deployment descriptor)

Feedback about the project (comments, suggestions for improvement, etc.)

1. Gained an insight and hands-on experience on real time implementation of algorithm in Data Structures
2. Working on this project enhanced my focus towards improving the efficiency of the system