Personal Report

Name:	Sujitha Puthana
Project:	Project 2 – Emergency Vehicle Dispatching System

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

Team Member	Contributions
Sujitha Puthana - 16233500	1. Designing Idea and workflow 2. Data - Request file which accepts the requests from user. 3. Implementation - Implemented if vehicle is again available updating the emergency vehicle availability to 1 so that again the vehicle can be allocated. 4. Testing – Unit testing on implemented part. 5. Documentation – Brief idea, Time Complexity analysis 6. Integrated Testing
Megha Nagabhushan - 16226858	1. Designing Idea and workflow 2. Data – Emergency Vehicle file which contains data about vehicles available in zip code 3. Implementation - Implemented the allocation of requested vehicle if available and make the availability of vehicle to "0". Integrated Quick sort. If available, then allocate and count is decremented. Else use the Dijkstra's algorithm for nearest zip code and check availability. 4. Testing – Unit testing on implemented part. 5. Documentation - Brief idea, Time Complexity analysis 6. Integrated Testing
Manvitha Vaduguru - 16239074	1. Designing Idea and workflow 2. Data - Request Complete file to update the vehicle id after request is completed. 3. Implementation – Implemented the process of multiple request handling using threads. Integration of Dijkstra's algorithm for undirected graph. 4. Testing – Unit testing on implemented part. 5. Documentation – Assumptions, Time Complexity analysis 6. Integrated Testing
Jnana Gayathri Penumetcha - 16241948	1. Designing Idea and workflow 2. Data – Distance File containing the distance between two zip codes. 3. Implementation – Dijkstra's algorithm to check for shortest path by using distance file for directed graph. This shortest path is used to check if the vehicle is available in the nearest zip code. 4. Testing – Unit testing on implemented part. 5. Documentation – Assumptions, Time Complexity analysis 6. Integrated Testing

Write down what you learned:

1.How to analyze the given scenario in a simple way.
2. Implementation of Dijkstra's algorithm.
3. Analyzing the time complexity of implemented project which data structures.
4. How to use the data structures and which one works well.
5. Briefly implement one real world scenario in java.

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

1.Very good idea for project. Good chance to learn.
2.
3.
4.
5.