**Personal Report**

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| **Name:** | Onica Sai Prasanna Lakshmi Rayineedi |
| **Project:** | Project 2 – Emergency Vehicle Dispatching System |

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

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| **Team Member** | **Contributions** |
| Onica Sai Prasanna Lakshmi Rayineedi  16231918 | 1. Designing idea and workflow  2. Processing the request by taking the graph input and vehicle availability and giving those to Dijkstra's algorithm to find the distances and passing output to QuickSort Algorithm to find out the sorted order  3. Unit testing on the implemented part  4. Analysis of Time complexity  5. Documentation |
| Sowmya Yalamanchili  16246716 | 1. Designing idea and workflow  2. Using Sorted and Unsorted arrays finding the node values of shortest distances and to find the availability of required vehicle in the nearest possible zipcode.  3. Unit testing on the implemented part  4. Analysis of Time complexity  5. Documentation |
| Sudheesha Reddy Musku  16241536 | 1. Designing idea and workflow  2. Processing the request by taking the graph input and vehicle availability and giving those to Dijkstra's algorithm to find the distances and passing output to QuickSort Algorithm to find out the sorted order  3. Unit testing on the implemented part  4. Analysis of Time complexity  5. Documentation |
| SreeLakshmi Nandanamudi  16244172 | 1. Designing idea and workflow  2. Using Sorted and Unsorted arrays finding the node values of shortest distances and to find the availability of required vehicle in the nearest possible zipcode.  3. Unit testing on the implemented part  4. Analysis of Time complexity  5. Documentation |

**Write down what you learned:**

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| 1. Learned how to analyze a scenario and segregate the problem into subproblems for an efficient solution |
| 2. Implementation of Dijkstra’s algorithm for the real time problem |
| 3. Implementation of Quick Sort |
| 4. Analyzing the time complexity of the project depending on the data structures used |
| 5. Gained good hands-on experience on java from this project. |

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

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| 1. This task improved my problem-solving abilities. |
| 2. Got a chance to basic algorithms to real world problems. |
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