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| **Data Structures and Algorithms** |
| [Project-Name] |
| **Open Ended Experiment Report** |

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| **School of Computer Science and Engineering**  **2019-20** |

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**1. Course and Team Details**

**1.1 Course details**

|  |  |
| --- | --- |
| **Course Name** | Data Structures and Algorithms  (Theory and Lab) |
| **Course Code** | 19ESCS201 and 19ECSP201 |
| **Semester** | III |
| **Division** | C |
| **Year** | 2019-20 |
| **Instructor** | Prakash Hegade |

**1.2 Team Details**

|  |  |  |
| --- | --- | --- |
| **Si. No.** | **Roll No.** | **Name** |
| 1. |  |  |
| 2. |  |  |
| 3. |  |  |
| 4. |  |  |
| 5. |  | [delete the unwanted rows] |

**2. Introduction**

Give an introduction to the course and lab here. Describe about why you are studying this course/lab, how it helps and its application areas. Introduce this course to a beginner and talk about its importance. Then say how this project is going to help in understanding the course better.

**3. Problem Definition**

Introduce your problem definition here. What problem are you automating? A description of 5-6 sentences in single paragraph will do well.

**4. Functionalities**

What functionalities have you provided in the project? Describe them here. Describe only the major one. No need to mention all of the functionalities.

|  |  |  |  |
| --- | --- | --- | --- |
| **SI. No.** | **Function Name** | **Description** | **DS and Algorithm Used** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  | Add more rows as required |

**5. Tools and Techniques**

**5.1 Data Structures and Algorithms**

Describe about the data structures and algorithms used for the project and why they were picked. If you talk about efficiency and order of growth of each of them, well, you are doing an awesome job!

**5.2 Project Statistics**

|  |  |  |
| --- | --- | --- |
| **Si. No.** | **Measure** | **Value** |
|  | Total Functions in Project |  |
|  | Total number of lines of code  (Including comments, newlines etc.) |  |
|  | Number of Errors |  |
|  | Number of Warnings |  |
|  | Team Satisfaction about Project | [pick a number from 1 to 100] |

**6. Learning and Takeaway**

What are you taking away as learning from the project? Put them out. Write a neat summary. Neat. I mean that.

Note: When you divide your description into various sub headings, adhere to the document conventions. All subheadings will be in Candara font, size 13, bold. [Refer 1.1 and 1.2 for example]. Do not deviate from the template provided at any case.

**7. References**

Cite your references. Examples are given below:

[1] Thomas H. Cormen, Clifford Stein, Ronald L. Rivest, and Charles E. Leiserson. 2001. Introduction to Algorithms (2nd ed.). McGraw-Hill Higher Education.

[2] lbackstrom. The Importance of Algorithms. Link: https://www.topcoder.com/community/data-science/data-science-tutorials/the-importance-of-algorithms/. Site last accessed on: 23 October 2017.

Note: www.google.com or www.wikipedia.com etc cannot be a reference.

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