BANSILAL RAMNATH AGARWAL CHARITABLE TRUST'S

VISHWKARMA INSTITUTE OF INFORMATION TECHNOLOGY, PUNE

DEPARTMENT OF COMPUTER ENGINEERING

**PROJECT SYNOPSIS**

* **Group Id**

SY. B Tech – A3-6

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* **Project Title**

BST Visualization

* **Project Option**

In-House Option

* **Internal Guide**
* **Sponsorship and External Guide**
* **Technical Keywords**

1. Binary Search Trees
2. Tree Traversal Algorithms
3. C++
4. Computer Graphics

* **Problem Statement**

Creating a system that visualizes Binary Search Trees creation and other operations for Educational purposes.

* **Abstract**

It is sometimes difficult to understand the concepts of Binary Search Tree only by in textual format. Our idea is to propose a system that visualizes the concepts of Binary Search Trees so that it gets clearer. It will be done with the help of Computer Graphics. As graphics are better than textual format.

The system would accepts the data from user and implement it to form Binary Search Trees. After the creation, the user would be able to use other concepts such as Tree Traversals, Insertions, Deletions, Searching, etc. With the help of our system, Binary Search Trees will be more understandable for students and for educational purposes.

* **Goals and Objectives**
* To visualize Binary Search Trees which will help to understand its working and operations performed on it such as Tree Traversals, Insertions, Deletions, Searching, etc.