**1. Tech Stack Used**

Programming Language: Java

IDE: Eclipse/IntelliJ IDEA/NetBeans

**2. Project Details**

**Project Name:** Binary Search Tree Implementation in Java

**Objective:** To implement a Binary Search Tree with functionalities including insertion, deletion, search, and inorder traversal.

**Description:**

This project involves the creation of a Binary Search Tree (BST) in Java, which is a data structure used for efficient storage, retrieval, and management of data. The BST supports the following operations:

**Insertion**: Adding a new element to the BST.

**Search:** Finding an element in the BST.

**Deletion:** Removing an element from the BST.

**Inorder Traversal:** Printing the elements of the BST in sorted order.

**Key Functions Implemented:**

**insert(int key):** Inserts a new key into the BST.

**search(int key):** Searches for a key in the BST.

**delete(int key):** Deletes a key from the BST.

**inorder():** Performs an inorder traversal of the BST, printing the keys in sorted order.

**Usage:**

The main method demonstrates the usage of the BST by inserting elements, performing search operations, deleting an element, and printing the inorder traversal of the tree before and after deletion.

This project serves as a practical example of how fundamental data structures like BSTs can be implemented and utilized in Java, providing a solid foundation for further study and application in computer science and software development.