

Abstract of the project.

The given project was based on developing the inventory information system for a book library. The system has been deployed as per the requirement of the coursework. The entire system is based on the environment of the book library. It is developed under a java environment. Swing components are used to create a form, where data can be stored in a table. The program is based on a binary search algorithm that provides the functionality of sorting data from the table.

The system is created in NetBeans integrated development environment. The components used in the GUI of the system are radio buttons, combo box, text fields, labels, table, and menu bar.

Given below is the report which describes the process of developing the system. A proper definition of binary search algorithm has been provided in the report along with the step-by-step explanation of how binary search works. Similarly, all the method used in the program has been evaluated in the report which gives a proper understanding of every method with its function. It also includes the test report of all the testing which have been performed in the system. After concluding all the tests, the program is found to be completely bug-free and is functioning as expected.