**REPORT OF PROJECT**

**ON**

**MULTIKEY FILE ORGANIZATION OF DATA STRUCTURE**

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# ***Prepared By:-***

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# **Summary of Project :**

In this report, we explore the concept of multi-key file organization as a data structure for efficient data management. The presented project focuses on **designing and implementing** a system that leverages multi-key file organization to enhance data retrieval and manipulation processes.

Multi-key file organization is a method used to organize data in a file system based on **multiple keys or attributes associated with each record**. Unlike traditional single-key file systems, multi-key systems allow for more **flexible and complex queries**, enabling faster retrieval of specific data subsets.

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# **Key Point in the Project:**

## **Importance of Multikey File organization in Data Structure :**

Through this project, we gain valuable insights into the importance of adopting multi-key file organization as a fundamental aspect of data structure design.

## **Types of Multi Key Organization :**

* 1. Inverted File Organization
  2. Multi - List Organization

## **pros and cons :**

This project offers a nuanced understanding of the advantages and limitations of multi-key file organization within the realm of data structure

## **Implementations :**

This project delves deeply into the intricacies of implementing multi-key file organization within the framework of data structures, providing valuable insights into the practical aspects of this approach.

# **References:**

References for the Presentation on Multi-Key File Organization in Data Structures:

1. <https://www.scribd.com/doc/65327531/CS102-08-Multikey-File-Org>
2. <https://coursecontent.indusuni.ac.in/wp-content/uploads/sites/8/2020/03/CE0417_FDS_UNIT4-ZT-file_structure-converted.pdf>
3. <https://ccsuniversity.ac.in/bridge-library/pdf/MCA-File-Structures-MCA-212.pdf>

# **Reflection :**

The presentation on Multi-Key File Organization in Data Structures was a collaborative effort by three students: **Shankar, Amit, and Manik**. Each member contributed to ensure the success of the project.

* Role Of Amit : Amit assumed the role of the design architect, responsible for **creating the layout and structure of the presentation**. He meticulously organized the content in a coherent and visually appealing manner, ensuring that key concepts were effectively communicated to the audience. Amit's attention to detail and creative flair resulted in a compelling presentation layout that enhanced the overall delivery of the project.
* Role of Shankar : Shankar played a pivotal role as the research lead, heading the **exploration of multi-key file organization concepts** .He helped shape the project's content by providing valuable insights through references.
* Role of Manik : Manik demonstrated in **GitHub management** and documentation throughout the project. He set up a GitHub repository to facilitate collaboration and version control among team members. He also took charge of **compiling the final submission .**

Through the collective efforts of our team the presentation on Multi-Key File Organization in Data Structures hopefully conveyed the importance and implications of this topic.