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Department of Information Science & Engineering

File Structures Laboratory with Mini Project [15ISL68]

SYNOPSIS

Project Title	Event Management System	
Class and section	6'B' ISE	Term: Feb-May 2019
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Introduction

Event management is the application of project management to the creation and development of large-scale events such as festivals, conferences, ceremonies, weddings, formal parties, concerts, or conventions. It involves studying the brand, identifying its target audience, devising the event concept, and coordinating the technical aspects before actually launching the event

An event management company handles a lot of data, mainly person details and monetary accounts. They need to manage accounts for their total income and expense on a project (event), and also handle information of all the entities involved in the event, such as clients, vendors, sponsors, attendees/invitees and also the marketing of the event.

This project works on providing a solution for digitizing the company's records and providing the authorized entities in the firm access to all the information plus a few additional features with which the data can be analysed and corresponding results can be seen such as profitability, efficiency and feasibility of individual events. Company data will be stored in files which can be manipulated both through our proposed system and manually, whichever is convenient to the user. To demonstrate this project we shall be using many of the file handling and file structures concepts, which will be elaborated on later.

Our main goal is to provide a basic, simple system which fulfils all the requirements of an event company, in terms of data storage and manipulation. A system which is fast, efficient and safe to use, in the sense it does not lose any data nor does it cause data corruption.

Objectives

- To develop an Event Management system using the concept of File Structures
- To demonstrate the use of various file structure concepts and create a deep understanding of the subject.
- Create a simple system which will be easy to use intuitively even be new user unfamiliar to the system.
- To create a fast and efficient system which doesn't have features and graphics unnecessary to the requirements of event management companies.
- The system should be able to safely store and manipulate data without causing data loss or data corruption.
- The system should be able to provide details such as event dates, location, employees involved in an event, number of sponsors along with their details, client information and contact, vendors' details, advertising and invitees/attendees information too.
- The system should be able to manipulate the stored data and subsequently update this information.

File Structure Concepts

- Indexing

Indexing is a tool for finding records in a file. It consists of a key field on which the index is searched and a reference field that tells where to find the data file record associated with a particular key.

- Internal Sorting

Is done by adding a sort function on the file every time new data is added or by adding data in such a manner that the file is always sorted. This helps in faster searching by using techniques such as binary search. Internal sorting is not suitable for maintaining large files and hence we shall apply it only in cases where the file size is small and this technique is applied efficiently.

- Hashing

Hashing is the transformation of a string of characters into a usually shorter fixed-length value or key that represents the original string. Hashing is used to index and retrieve items in a database because it is faster to find the item using the shorter hashed key than to find it using the original value. It is also used in many encryption algorithms.

Applications

Small and medium sized event management firms, which have data records large enough that they need a software solution for managing and inter-linking all their event information, distributing resources and keeping track of the financial accounting of expenditure and profitability of different projects and advertising.

Conclusion

The proposed Event Management system implements file structures concept to improve the ease of with which the process of maintaining records using traditional means, and provides an efficient and reliable solution for an event management firm's needs. This project can also be implemented by companies and institutions whose main expertise is not event management but they wish to conduct a single event for their organization itself. This project is designed to be used intuitively and hence complete beginners (to event management) can also use this system comfortably.

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