JAYPEE INSTITUTE OF INFORMATION TECHNOLOGY,NOIDA

B. TECH II SEMESTER

SOFTWARE DEVELOPMENTAL AND FUNDAMENTALS LAB-2

(15B17CI271)

TITLE OF PROJECT

UP TO DATE

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Introduction

The UpToDate project is a software application that provides a convenient platform for event management, registration, and checking. The application is built using the C++ programming language and provides a user-friendly interface for users to easily register and check-in for events.

Project Goals

The primary goal of the UpToDate project is to provide an efficient and streamlined solution for event management. The application aims to simplify the registration process for users and enable event organizers to easily manage events and attendees. The project also aims to incorporate various features such as notifications and data analysis to enhance the user experience.

Methodology

The UpToDate project was developed using C++ programming language with the help of various libraries and tools. The application consists of several modules, including user authentication, event management, attendee registration, and check-in. The project also incorporates data analysis to provide insights and metrics related to events and attendees.

Results

The UpToDate project has successfully achieved its primary goal of providing a user-friendly platform for event management and registration. The application has been tested extensively and has proven to be reliable and efficient. The incorporation of data analysis features has also provided valuable insights to event organizers.


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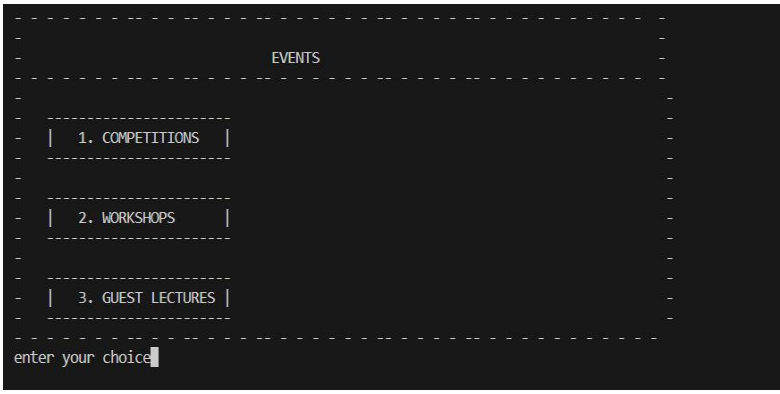
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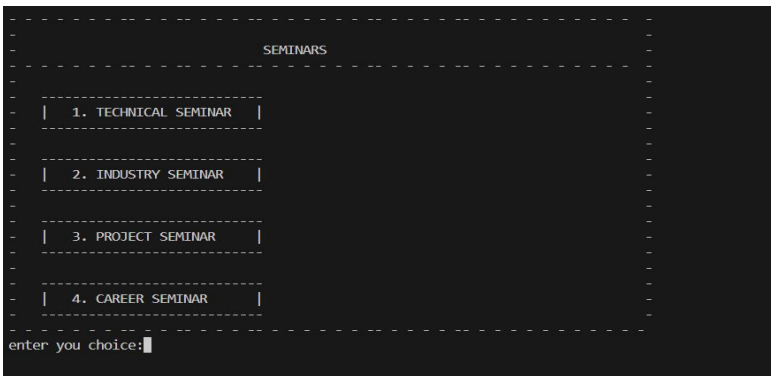
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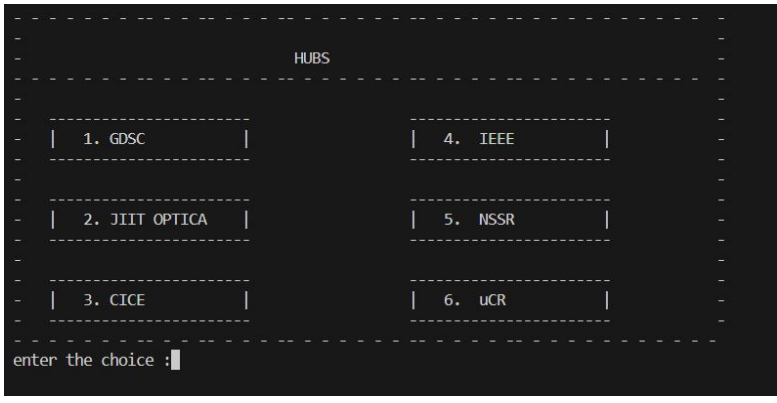
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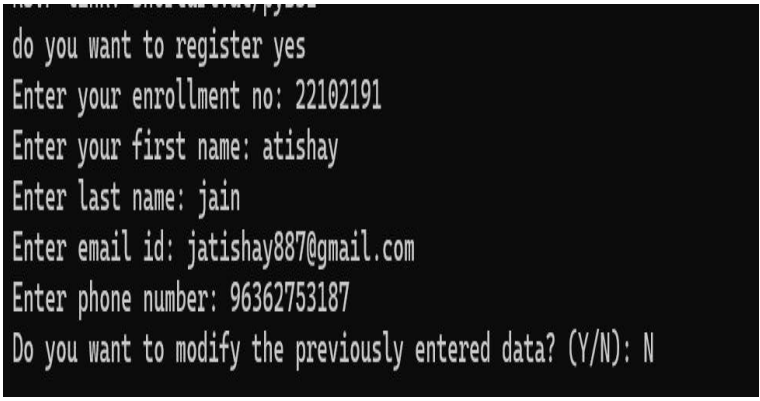

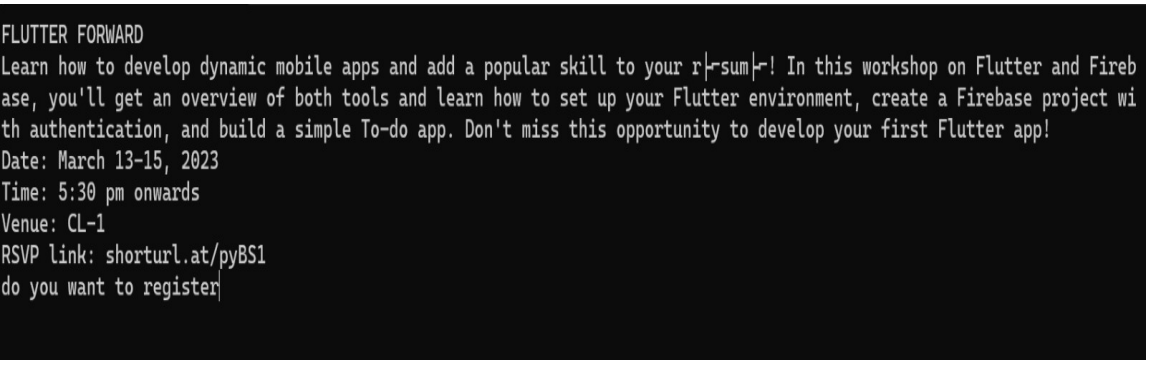

C++ Features Used

In order to build the UpToDate project, we utilized various C++ features including:

- Arrays: Arrays were used to store information about events such as the name, date, time, and location. By storing this information in arrays, we were able to easily access and manipulate the data.

- Functions: Functions were used to perform specific actions such as registering for an event, displaying event details, and searching for events based on a keyword. By using functions, we were able to write modular code that was easy to test and modify.

- Classes: Classes were used to represent different entities such as events, attendees, and organizers. Each class had its own set of properties and methods that allowed us to organize the code and make it more maintainable.

- File Input/Output: We used file input/output operations to store and retrieve event data in a text file. This allowed us to persist the data between different program runs and also allowed us to share the data with other programs.

-File Handling: To ensure that the event registration data is stored safely and can be accessed easily, we have used file handling in our project. C++ provides various methods for file handling, and we have utilized them to create, read, and modify files. Specifically, we have used the fstream library in C++ to handle the files. With this library, we have been able to read data from the files, write data to the files, and update the existing data. By using file handling, we have made it possible to store large amounts of data for event registration in an organized manner.

-Loop:In programming, a loop is a structure that allows a set of instructions to be executed multiple times. We have used loops in our project to perform certain operations repeatedly. Specifically, we have used the for loop to iterate through arrays and vectors to access each element of the data set. Additionally, we have used the while loop to repeatedly prompt the user for input until the correct input is received.

-STL:The Standard Template Library (STL) is a powerful library in C++ that provides various data structures and algorithms. We have used STL in our project to make it more efficient and reliable. Specifically, we have used vectors and arrays provided by STL to store and manipulate data for event registration. Additionally, we have used various algorithms, such as sorting and searching, provided by STL to perform operations on the data in an efficient manner.

Conclusion

The UpToDate project has successfully addressed the challenges of event management and registration. The application provides an efficient and streamlined solution for attendees to register and check-in for events, while enabling event organizers to easily manage events and attendees. The project has achieved its goals and has the potential to be further improved with additional features and enhancements.