

VISVESVARAYA TECHNOLOGICAL UNIVERSITY BELGAUM



Synopsis of

Mini Project

VIRTUAL EVENT MANAGEMENT

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AIM:

The primary aim of the Virtual Event Management System is to revolutionize how individuals and professionals organize, store, and retrieve event-related digital memories. By creating an intuitive and efficient platform, the system seeks to seamlessly integrate event details with associated images, transforming the often chaotic process of managing event photographs into a streamlined, user-friendly experience. This solution aims to bridge the gap between event documentation and image retrieval, empowering users to effortlessly preserve, organize, and access their cherished memories while significantly enhancing productivity for event planners and photographers. Ultimately, the system aspires to set a new standard in digital memory management, fostering a more organized approach to preserving life's significant moments and professional achievements.

SCOPE:

Virtual Event Management refers to the process of planning, organizing, and executing events in a digital environment. This approach allows participants to engage in events such as conferences, workshops, trade shows, and social gatherings through online platforms, eliminating geographical barriers and enabling broader participation. Key features of virtual event management include live streaming, interactive sessions, networking opportunities, and the use of virtual booths or exhibition spaces. Tools like webinars, video conferencing software, and event management platforms facilitate seamless communication and engagement, providing attendees with a rich experience comparable to in-person events.

The technical implementation of virtual event management involves robust backend systems to handle registration, ticketing, and attendee tracking, along with user-friendly interfaces for participants to navigate the event. Features such as chat functions, polls, and Q&A sessions enhance interactivity, while analytics tools provide insights into attendee engagement and event performance. As the demand for virtual events grows, the architecture of these platforms is designed to be scalable and flexible, allowing for future enhancements like augmented reality experiences, integration with social media, and advanced data analytics to improve future events.

OBJECTIVES

1. **Efficient Image Organization:** Enable users to categorize and organize event-related images based on details like event name, date, and location.
2. **Enhanced Search Functionality:** Implement a powerful search algorithm to allow quick and accurate retrieval of specific images using various criteria.
3. **User -Friendly Interface:** Design an intuitive graphical interface that caters to users of all technical levels for seamless navigation.
4. **Local Data Management:** Establish a reliable local storage system using JSON format to ensure data privacy and quick access without external dependencies.
5. **Performance Optimization:** Optimize application performance to ensure smooth operation even with large image collections and complex search queries.

HARDWARE AND SOFTWARE REQUIREMENTS:

Hardware Requirements

- System Processor: Intel i5 (2.0 GHz or higher).
- RAM: Minimum 4GB; Recommended 8GB.
- Hard Disk: Minimum 10GB free space.
- Display: Minimum resolution 1280x720 pixels; Recommended 1920x1080 pixels.

Software Requirements

- Operating System: Windows 11 (64-bit version).
- Python Environment: Python 3.12.5 with pip.
- Required Python Libraries: tkinter, Pillow, os, json.
- Development Tools: Python IDLE, Visual Studio Code.
- Additional Software: Image viewer, file explorer, JSON viewer.

RESULT EXPECTED:

This Virtual Event Management system is a GUI-based application designed to efficiently manage digital event assets and information. The program features a search functionality that allows users to find event-related images by entering event details such as name, date, description, and location. Users can preview selected images through thumbnails and easily save all event information along with associated image filenames to a JSON file. The application provides a streamlined solution for organizing and accessing event-related digital content, making it an essential tool for event planners and organizers working in virtual environments.

Signature of the students:

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