Project Documentation Report

TechConnect Event Management System

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1. Introduction

Welcome to the **TechConnect Event Management System**, a user-friendly platform designed to simplify the process of organizing, managing, and participating in events within an educational institution. This project was developed to bridge the gap between students and event organizers by providing an intuitive interface with exciting features. Whether you're a student looking to join an event or an administrator planning one, TechConnect makes it easy and engaging!

This report is designed for learners and new users to understand what the project is, how it works, and how it can be used. It includes a step-by-step explanation of the system, its features, and tips for getting started.

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2. What is TechConnect?

TechConnect is a web-based application built to manage events efficiently. Imagine a digital hub where:

- **Students** can register, enroll in events, and check their participation status.
- **Admins** can create events, track participants, announce winners, and archive completed events.

The system uses a colorful interface with smooth animations to make the experience fun and interactive. It's like a virtual event planner that runs on your local computer (for now!) and can be expanded for bigger use in the future.

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3. Key Features Explained

Here's a breakdown of what TechConnect offers, explained in simple terms:

3.1 User Roles

- **Students**:
  - **Sign Up/Login**: Create an account with your roll number, name, mobile number, email, branch, and year. Log in to access your profile.
  - **Event Participation**: Browse live events, enroll in them, and see completed events with results (e.g., if you won a prize!).
  - **Profile**: View your personal details like name and branch.
- **Admins**:
  - **Login**: Use a special password ("admin123") to access admin tools.
  - **Event Management**: Add new events, manage ongoing ones, mark them as completed, and delete them.
  - **Winner Announcements**: Select and announce the top participants (1st and 2nd place).

3.2 Main Functionalities

- **Event Creation**: Admins can set up an event by giving it a name, a deadline for enrollment, and a start time. For example, an event called "Coding Challenge" might have a deadline of April 20, 2025, and start on April 21, 2025.
- **Live Event Management**: Admins can see who's enrolled, sort participants by name or branch, and manage the event until it's done.
- **Completed Events**: Once an event ends, it moves to a "Completed" section where admins can review it, and students can see results.
- **Animations**: The interface has cool effects like fading text and bouncing messages to make it visually appealing.

3.3 Example Scenario

- **Student View**: A student named "Alice" logs in, sees a "Quiz Night" event, enrolls, and later checks if she won (e.g., 2nd place!).
- **Admin View**: An admin creates "Quiz Night," tracks 50 participants, marks it completed, and announces "Alice" and "Bob" as winners.

4. How It Works: Step-by-Step Guide

Let's walk through how to use TechConnect as a learner or new user:

4.1 Getting Started

1. **Download and Run**:
   - Get the project files (e.g., app.py, database.py, security.py) from the developer.
   - Open a terminal, navigate to the folder, and type:

   bash

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   ```
   streamlit run app.py
   ```

   - Open your browser and go to http://localhost:8501.
2. **Choose Your Role**:
   - On the left sidebar, select "Student" or "Admin" to start.

4.2 For Students

- **Register**:
  - Click "Register," fill in your details (e.g., Roll No: S123, Name: Alice, Mobile: 9876543210), and submit.
- **Login**:
  - Use your Roll No and password to log in.
- **Explore Events**:
  - Click "Live Events" to see ongoing events and click "Enroll" to join.
  - Check "Completed Events" to see past events and your results.

4.3 For Admins

- **Login**:
  - Select "Admin," enter the password "admin123," and log in.
- **Add an Event**:
  - Click "Add Event," enter a name (e.g., "Coding Challenge"), set a deadline and start time, and submit.
- **Manage Events**:
  - Click "Manage Events" to see live events, view participants, and mark them as completed.
- **View Completed Events**:
  - Check "View Completed Events" to review past events and delete them if needed.

5. Learning from the Project

5.1 What You Can Learn

- **Programming Basics**: Understand Python and how to build web apps with Streamlit.
- **Database Management**: See how SQLite stores data like users and events.
- **UI Design**: Learn to use CSS for animations and layouts.
- **Problem Solving**: Follow how issues (e.g., white space, duplicates) were fixed.

5.2 Tips for Beginners

- Start by running the app and exploring the sidebar.
- Try adding a test event as an admin to see how data flows.
- Experiment with the code by changing colors or adding new features (e.g., a "Contact Us" button).

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6. Future Ideas for Learners

- **Add More Features**: Include a chat feature for event updates or a leaderboard.
- **Improve Security**: Add two-factor authentication for logins.
- **Share Your Work**: Upload the project to GitHub and share it with others to get feedback.

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7. Conclusion

TechConnect is more than just an event manager—it's a learning tool! It shows how to combine code, design, and user needs into a working product. Whether you're a student joining events or an admin organizing them, this system makes it simple and fun. Try it out, play with the code, and let it inspire your next project!