

Synopsis

☰ Tags

Event Finance Manager and Visualizer

Introduction

About The System

This is a Web Application. That can be used for tracking events' finance and also help in visualizing the data based on the labels assigned. It also has a feature to extract the data in the form of ledgers either as a pdf or an excel sheet.

Need for the System?

- Not an event based finance managing application, they either focus on individuals or an organization.

This system was proposed to tackle the issue of managing the finance and accounts required during an **event organization**. The application will help the accountants and the event managers centralize their transactions. Thus helping in easier management and analysis of financial data.

Background Study

Existing system and Demerits

- Has not much accounting features like ledger management and creation of Balance sheet.
- Those that do provide the features to manage centralized accounts are not free.
 - Simple Applications either mobile or web app, but for individual finance tracking and assessment.
- We needed a centralized application for our institution to help manage the finance. As in an event not all the data is under a central person. Many

people contribute for various resources through varying sources. Hence managing and collecting all the data is hectic. In the process we loose a few data.

Proposed system and Merits

- The new system will have an event based structure where all events will have their own separate dataset and users.
 - The new system will provide finance tracking and management features along with visualization based on various labels and views.
- New information can be extracted as NLP or a Ledger in the form of excel sheets or pdf.
- Separate dashboards for users and events.
- Separate Dashboard for various departments of the institution.

New System Description

Modules of the System

▼ 1. User Authentication and Authorization

▼ **Purpose:** Secure the application by ensuring only authorized users can access specific features based on their roles (Admins, Financial Managers, Event Managers).

▼ **Components:**

- **User Registration:** Allow new users to sign up.
- **User Login:** Authenticate users.
- **Role-Based Access Control:** Assign roles and restrict access to certain parts of the application based on these roles.

▼ 2. Event Management

▼ **Purpose:** Allow users to create, view, update, and delete events and sub-events.

▼ **Components:**

- **Event Creation:** Form to create main events and sub-events.

- **Event Viewing:** List of all events and sub-events.
- **Event Editing:** Modify event details.
- **Event Deletion:** Remove events and sub-events.

▼ 3. Transaction Management

▼ **Purpose:** Record, classify, and categorize transactions for each event and sub-event.

▼ **Components:**

- **Transaction Recording:** Form to input transaction details.
- **Transaction Classification:** Categorize transactions as Revenue or Expense.
- **Transaction Viewing:** List and filter transactions.

▼ 4. Data Visualization

▼ **Purpose:** Generate graphs and charts for visual representation of financial data.

▼ **Components:**

- **Graph and Chart Generation:** Visualize data using libraries like Chart.js, D3.js, or Google Charts.

▼ 5. Financial Statements Generation

▼ **Purpose:** Generate P&L statements, Ledgers, and Balance Sheets based on the recorded transactions.

▼ **Components:**

- **P&L Statement Generation:** Calculate and display revenues and expenses.
- **Ledger Generation:** Display detailed transaction records.
- **Balance Sheet Generation:** Calculate assets, liabilities, and equity.

Users of the System

▼ Admin of the Event

- Create and Modify or Delete user accounts
- Manage or create new Events

▼ Finance Manager of the Event

- Has access to all the Users' transactions.
- Can Modify or Update new Labels or Datasets
- Apply Financial operations on the data
- Visualize the Information
- Generate Reports and Summary
- Create and Maintain Ledgers and PNL.
- Export the obtained Data.

▼ Event Managers

- Can see and maintain their own transactions
- Add new transactions into the Database

Future Scopes

- Balance Sheet
- Better Visualization
- Better Label Optimization
- Predictive Visualization
- Payment Gateway and Plans
- Commercialization of the App

Software and Hardware Requirements

▼ Software Requirements

- HTML
- CSS
- JS (Javascript)
- Framer or Figma for Front-End

- Python (Flask Web Framework)
- Database (MySQL)

▼ Hardware Requirements

- NIC or Net Connectivity
- Laptop
- Smartphone

Conclusion

This application will help solve the finance management issue while in an event and in future help its users analyze the expenses and handle the accounts more efficiently.