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Eventra: College Event Management System

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Abstract - Eventra is a comprehensive college event management system designed to streamline the lifecycle of event organization, promotion, and participation. The platform enables seamless interaction between organizers and participants through features such as event discovery, registration, payment processing, and real-time notifications. Built using Flutter, Dart, and Supabase, Eventra addresses challenges like fragmented communication, manual registration, and inefficient attendance tracking. With secure Razorpay integration, group registration, and analytics dashboards, Eventra transforms traditional event workflows into scalable, digital processes accessible across devices.

Keywords: Event Management, Flutter, Supabase, Razorpay, College Events, Mobile Application

1.INTRODUCTION

College campuses host diverse academic, cultural, and social events, but traditional management methods rely on notice boards, paper registrations, and disconnected tools. These approaches lead to inefficiencies, poor attendance tracking, and limited visibility. Eventra provides a unified digital platform that integrates event creation, promotion, registration, payments, and attendance tracking. Its mobile-first design ensures accessibility, while secure authentication and real-time notifications enhance engagement.

2.1 Problem Statement

current systems face challenges such as fragmented communication, manual registration, and poor attendance tracking. Eventra addresses these by digitizing workflows and centralizing event management.

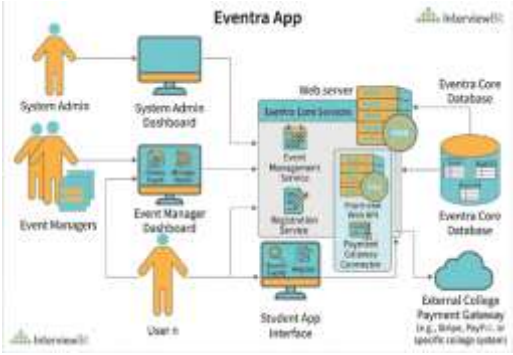
2.2 Existing System

Traditional methods (notice boards, spreadsheets) and partial digital solutions (social media groups, Google Forms) suffer from disconnected workflows and poor scalability. Section 2.4 will explain how Eventra improves upon these limitations.

2.3 Proposed System

- Unified event discovery.
- Streamlined registration for individuals and groups.
- Secure payment processing via Razorpay..
- Attendance management with certificate generation.
- Organizer dashboard with analytics.

2.4 System Architecture



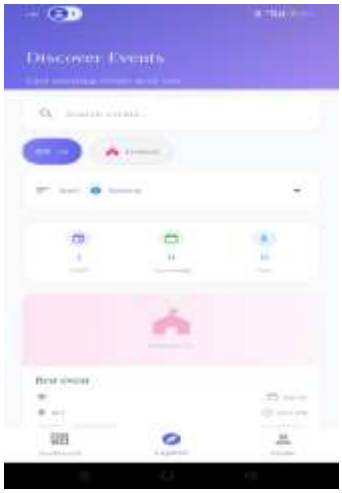
- Presentation Layer: Flutter-based mobile app with Material Design 3.
- Application Layer: Business logic in Dart, authentication, payment, and notifications.
- Data Layer: Supabase PostgreSQL database with real-time subscriptions.
- Integration Layer: Razorpay gateway, email services, and analytics tools.

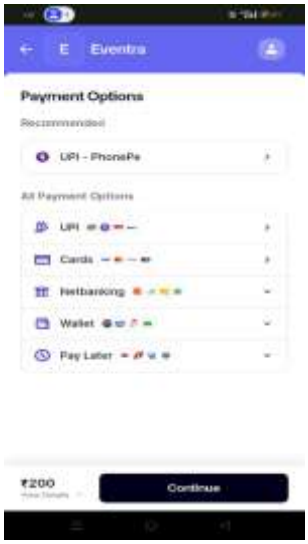
2.5 Methodology

The project adopted Agile methodology with iterative development. Requirement gathering, system design, technology selection, modular development, and testing were conducted. Testing included unit, integration, performance, and security validation.

2.6 Results and Applications

Eventra successfully demonstrated smooth event creation, secure payment integration, and real-time notifications. Applications include college festivals, workshops, seminars, and inter-college competitions.





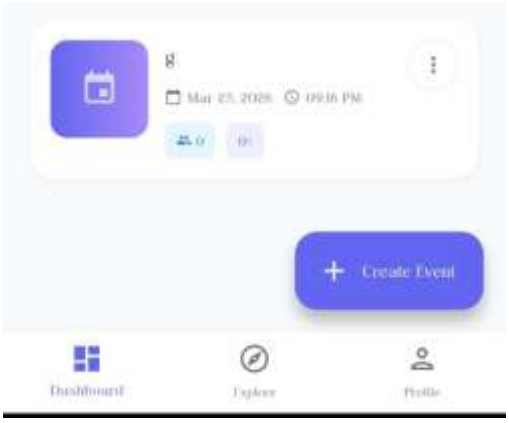
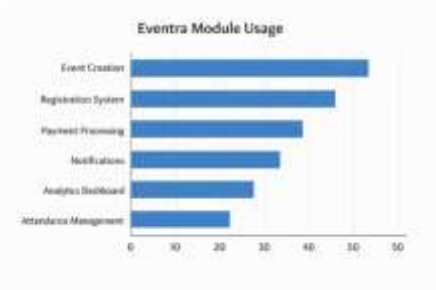


Table -1: Sample Table Format

Module	Description
Event Creation	Allows organizers to create and publish events
Registration System	Supports individual and group registrations
Payment Processing	Razorpay integration with secure transactions
Analytics Dashboard	Provides participation and revenue insights

Fig-2: Bar chart of eventra model



2.7 Future Enhancements

Planned improvements include AI-based event recommendations, multi-language support, advanced analytics dashboards,notifications, and ERP system integration.

3. CONCLUSIONS

Eventra successfully digitizes college event workflows, improving participation, security, and organizer efficiency. Its modular architecture and mobile-first design make it scalable and adaptable for various campus environments. The system's integration with Razorpay and Supabase ensures secure transactions and real-time data handling. Future enhancements will further increase its utility and reach across educational institutions.

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