



A Project Report

on

COLLEGE EVENT MANAGEMENT SYSTEM

Submitted in partial fulfillment of requirements for the award of the course

of

CGB1221-DATABASE MANAGEMENT SYSTEMS

Under the guidance of

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Submitted By

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M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR - 639 113

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M. KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous Institution affiliated to Anna University, Chennai)

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BONAFIDE CERTIFICATE

This is to certify that this project report on "COLLEGE EVENT MANAGEMENT SYSTEM" is the bonafide work of SARAVANA PRIYAN S T (927623BAD100), SARDHEESH M(927623BAD101) who carried out the project work during the academic year 2024 - 2025 under my supervision.

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DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

VISION OF THE INSTITUTION

To emerge as a leader among the top institutions in the field of technical education

MISSION OF THE INSTITUTION

- Produce smart technocrats with empirical knowledge who can surmount the global challenges
- Create a diverse, fully-engaged, learner-centric campus environment to provide quality education to the students
- Maintain mutually beneficial partnerships with our alumni, industry, and Professional associations

VISION OF THE DEPARTMENT

To excel in education, innovation, and research in Artificial Intelligence and Data Science to fulfil industrial demands and societal expectations.

MISSION OF THE DEPARTMENT

M1: To educate future engineers with solid fundamentals, continually improving teaching methods using modern tools.

M2: To collaborate with industry and offer top-notch facilities in a conducive learning environment.

M3: To foster skilled engineers and ethical innovation in AI and Data Science for global recognition and impactful research.

M4: To tackle the societal challenge of producing capable professionals by instilling employability skills and human values.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

Graduates will be able to:

- **PEO 1:** Compete on a global scale for a professional career in Artificial Intelligence and Data Science.
- **PEO 2:** Provide industry-specific solutions for the society with effective communication and ethics.
- **PEO 3:** Hone their professional skills through research and lifelong learning initiatives.





PROGRAM OUTCOMES (POs)

Engineering students will be able to:

- **1. Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- **2. Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- 3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- **4. Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- **5. Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- **6.** The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- **7. Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- **8. Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- **9. Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- **10.** Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, give and receive clear instructions.





- **10. Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- 11. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAM SPECIFIC OUTCOMES (PSOs)

- **PSO1:** Capable of finding the important factors in large datasets, simplify the data, and improve predictive model accuracy.
- **PSO2:** Capable of analyzing and providing a solution to a given real-world problem by designing an effective program.





ABSTRACT

The College Event Management System (CEMS) is a web-based application developed to streamline the organization, management, and participation of events within educational institutions. It allows users to register, log in, explore events, and register for main, sub, or standalone events. Participants can track their registration status and receive real-time updates, enhancing the overall experience. Admins can manage users, oversee event activities, track resource usage, and generate detailed analytics. Organisers can create events, allocate resources, handle deallocations, and access reports. The system uses HTML, CSS, and JavaScript for the frontend, Python with Flask for backend operations, and MySQL for storing data. It supports UPI payment Key features include document verification for organisers, resource conflict detection, email notifications, and exportable reports in PDF and Excel formats. DBMS principles such as ER modeling, normalization, and transaction handling are applied to ensure data accuracy and consistency. Modules like User Roles, Event Management, Resource Allocation, Payment, and Reporting work together seamlessly to deliver complete functionality. The architecture is modular, scalable, and responsive across devices. CEMS ensures security, efficiency, and a smooth user experience while enabling institutions to manage events digitally and professionally.

KEYWORDS:

- 1. Event Registration
- 2. Real-time Notifications
- 3. Report Generation
- 4. Event Analytics
- 5. payment gateway





ABSTRACT WITH POS AND PSOS MAPPING

ABSTRACT	COs	POs	PSOs
ADSTRACT	MAPPED	MAPPED	MAPPED
The College Event Management System (CEMS)	CO1	PO1	PSO1
is a web-based platform that streamlines event	CO2	PO2	PSO2
organization, resource allocation, and	CO3	PO3	
participation in educational institutions. Built	CO4	PO5	
using Flask, MySQL, and modern web	CO5	PO6	
technologies, it supports role-based access, real-		PO8	
time updates, and secure payments via Razorpay.		PO9	
With features like analytics, and responsive		PO10	
design, CEMS ensures efficient and professional		PO11	
event management. It also provides exportable		PO12	
reports in PDF/Excel formats and enables			
organisers to manage main, sub, and standalone			
events seamlessly. The modular and scalable			
architecture ensures smooth performance across			
various devices. Notifications, email alerts, and a			
user-friendly dashboard further enhance the			
experience for admins, organisers, and			
participants.			

Note: 1- Low, 2-Medium, 3- High

SUPERVISOR

HEAD OF THE DEPARTMENT





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CHAPTER 1

INTRODUCTION

1.1 PROBLEM STATEMENT

Design and develop a **College Event Management System (CEMS)** that streamlines the planning, organization, and management of various events within an educational institution. The system should enable users to register and log in with role-based access as participants, organizers, or administrators. It must support creating, updating, and managing main, sub, or standalone events, handling participant registrations, allocating and deallocating event resources, and generating detailed reports in PDF or Excel formats. The platform should integrate secure payment processing, provide real-time updates and notifications, and include features such as document verification and conflict detection. The aim is to ensure seamless coordination, efficient resource usage, and a user-friendly experience for both students and faculty involved in college events.

1.2 INTRODUCTION

The College Event Management System (CEMS) is a comprehensive web-based application designed to digitize and simplify the organization and management of events within educational institutions. It allows users to register, log in, explore events, and register for main, sub, or standalone events. Participants can view event details, receive real-time updates, and track their registration status. Organisers can create events, allocate resources, manage deallocations, and generate detailed reports. Admins oversee user activity, monitor platform-wide events, and manage resources and analytics through a centralized dashboard. The system integrates Razorpay for secure payment processing, supporting UPI, cards, and net banking. Built using HTML, CSS, JavaScript for the frontend and Python with Flask and MySQL for the backend, it ensures a responsive, modular, and scalable environment. The application applies core DBMS concepts such as ER modeling, normalization, SQL queries, and transaction handling to ensure data integrity and consistency. Features like document verification, exportable reports, and notification alerts enhance user experience. Overall, CEMS provides an efficient and professional digital platform for managing institutional events.





1.3 DATABASE MANAGEMENT SYSTEMS

A Database Management System (DBMS) in the context of the College Event Management System (CEMS) is a critical component that enables efficient storage, management, and manipulation of event-related data. It supports functionalities such as user registration, event creation, resource allocation, and payment tracking while ensuring data integrity, security, and consistency. The DBMS provides a structured interface between the application and the underlying database, allowing users and system modules to interact with the data through queries and operations. It also handles key processes like transaction management, access control, and data backup to maintain reliable and secure operations. In CEMS, a relational DBMS like MySQL is typically used to manage complex relationships between users, events, resources, and registrations.

1.4 PYTHON FLASK

Python with Flask is a powerful and lightweight open-source web framework used for developing dynamic and data-driven web applications. Flask is a micro-framework, meaning it provides essential tools to build web applications without the complexity of larger frameworks. It allows developers to write Python code that handles server-side logic and interacts seamlessly with frontend templates. Flask supports integration with databases like MySQL, making it ideal for building scalable and interactive systems. It includes features like routing, form handling, session management, and authentication. Flask is platform-independent, easy to learn, and highly extensible, with a large community and rich ecosystem of extensions. Its simplicity, flexibility, and modularity make it a popular choice for modern web development. Well-known applications built using Flask include Pinterest's early versions, Netflix internal tools, and the LinkedIn data insights platform.

1.5 OBJECTIVE

The main objective of the College Event Management System (CEMS) is to develop a user-friendly platform for organizing, managing, and participating in college events efficiently. It provides seamless event browsing, secure registration, and real-time updates for participants, enables administrators and organizers to create events, allocate resources, and monitor registrations effectively. It ensures secure authentication and role-based access for admins, organizers, and participants. With integrated payment gateway support, the system handles secure transactions. Emphasizing data integrity and minimizing redundancy, the project enhances user experience with an interactive interface and timely notifications. It simplifies event coordination and improves efficiency for both college students.





CHAPTER 2 PROJECT METHODOLOGY

2.1 PROPOSED WORK

Admin Workflow:

- 1. Login/Sign Up: Login with secure credentials. Dashboard Overview of platform metrics, user activity, and event stats.
- 2. Manage users: Approve organizer accounts, manage roles and permissions.
- 3. Monitor events: View all events, track registration and resource allocation
- **4. Generate reports:** Access analytics on participation, revenue, and resource allocation.
- **5. System Oversight::** Handle verification, resolve conflicts, and maintain data integrity.

Organizer Workflow:

- **1. Login/Signup:** Register/Login and submit documents for verification. Admin Approval for organizer access.
- 2. Allocate Resources: Assign and manage equipment (e.g., projectors, chairs).
- 3. Monitor Registrations: Track participant count and manage event logistics.
- 4. View Reports: Analyze event success, feedback, and resource usage.
- **5. Handle Payments**: Track participant payments and transactions.

Participant Workflow:

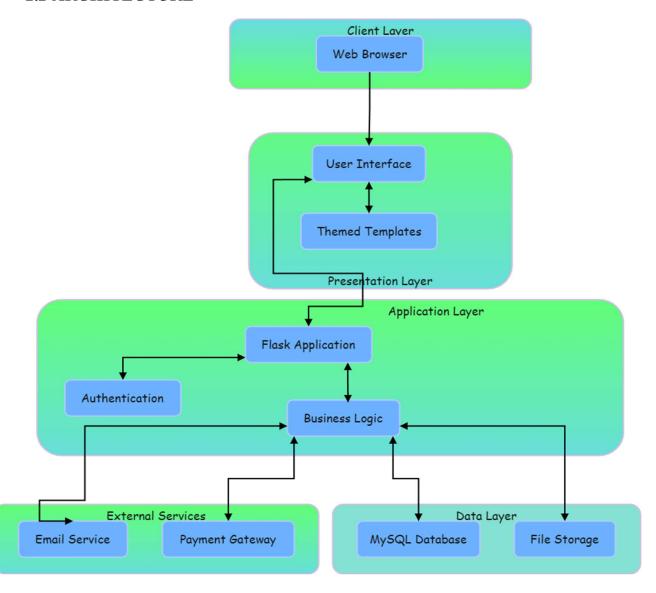
1. **Sign Up/Login :** Login to the platform. Browse Events by categories, tags, or dates.





- 2. Register for Events: Fill forms and make payments.
- 3. **Notifications**: Get real-time updates on registration, venue, or time changes.
- 4. Track Registrations: View registered events and statuses.
- 5. Participate in Events: Attend and engage based on registration confirmation.

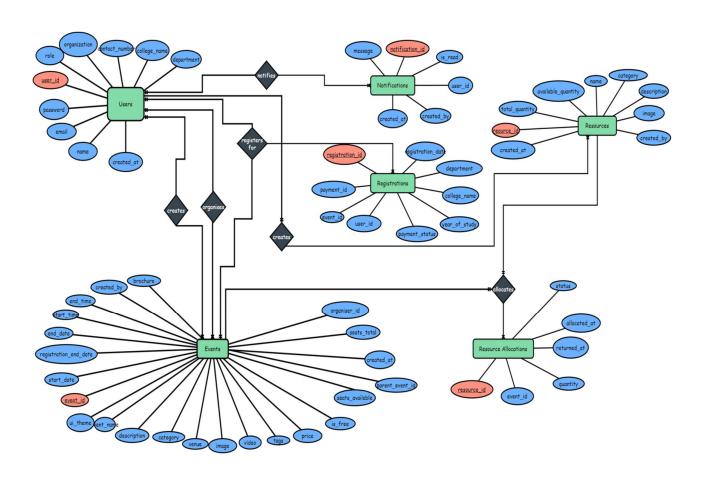
2.2 ARCHITECTURE







2.3 E-R DIAGRAM:





R

2.4 SCHEMA DIAGRAM

User table:

id	name	Password	Role	Email	contact	upi_id
1	saravana	******	organiser	saravanapriyanst@gmail.co	1234567890	saravana@okici
2	sardheesh	*****	participant	sardheeshmuthusamy@gmail.co	1234567890	-
				m		
3	admin	*****	admin	admin@example.com	1234567890	-

Events Table:

event_id	name	start_date	End_date	Start_time	End_time	Organiser_id	Venue
1	orlia	25.05.2025	25.05.2025	9:00 AM	5:00 PM	1	MKCE

Notification Table:

id	message	created_at	created_at created_by		is_read	Is_important
1	Your otp is 234123	24.5.2025	Organizer	1	1	1

Resource Table:

1	id	name	category	description	total_quantity	Avilable_quantity	created_by
1		Chair	essential	Uses for seating of	12	20	sarvana
				the participant			

Resource allocation Table:

id	resource_id	event_id	quantity	allocated_at	returned_at	status
1	1	1	3	25.05.2025	26.05.2025	avilable

Registration Table:

id	event_id	User_ id	registration Date	Payment ID	Payement_ status	Payment Method	Verificati on _notes	Verification Date	Verified_by	amount
1	1	2	26.05.2025	1	paid	upi	verified	26.05.2025	sarvana	100





CHAPTER 3 SOFTWARE REQUIREMENTS

3.1 Front End

In the College Event Management System (CEMS), HTML (Hypertext Markup Language) is used to structure each webpage, including layouts for dashboards, event listings, registration forms, and resource management interfaces. HTML defines the core elements such as buttons, tables, input fields, and cards that users interact with across roles. CSS (Cascading Style Sheets) styles these elements to create a visually appealing and consistent interface, managing colors, fonts, spacing, and responsive layouts through Flexbox, Grid, and media queries. Bootstrap, a widely-used CSS framework, is also employed to ensure mobile responsiveness and UI consistency. JavaScript enhances interactivity and user engagement by handling tasks like form validation, dynamic event filtering, interactive charts, modals, and real-time updates without page reloads. Together, HTML, CSS, JavaScript, and supporting frameworks provide a responsive, intuitive, and user-focused front-end experience for admins, organizers, and participants in the CEMS platform.

3.1 Back End

In the backend of the College Event Management System (CEMS), Python with the Flask framework is used as the main server-side technology to handle all business logic and facilitate communication between the front end and the database. Flask processes user actions such as login, registration, event creation, resource allocation, and payment handling. Python scripts manage dynamic content rendering, database operations, and API responses based on user roles. The MySQL database, managed through MySQL Workbench, stores all key data including user accounts, event details, registrations, resources, payments, and system notifications. Each front-end interaction triggers a Flask route that executes SQL queries using ORM or raw queries to update or retrieve data. MySQL Workbench serves as the development and management tool for database design, testing, and monitoring. This backend setup ensures efficient data processing, secure authentication, and real-time system updates, providing a reliable foundation for the entire CEMS platform.





CHAPTER 4

MODULE DESCRIPTION

4.1 Event Management Module:

The event management module enables organizers to create, update, delete, and view events. Each event includes data like name, type, date, venue, capacity, pricing, description, media, and brochures. The interface allows fast editing and event categorization for easy browsing. Events can be main, sub, or standalone. This module keeps the platform dynamic, organized, and updated with current activities.

4.2 Registration & payment Module

The registration and payment module enables participants to register for events through a streamlined interface. It supports secure payments via direct UPI transactions exclusively. Users receive real-time confirmation upon successful registration and payment completion. Organizers and admins can track registration statuses, payment history, and attendance efficiently. The module ensures a smooth experience with proper transaction handling, accurate data storage, and immediate user notifications throughout the registration process. The UPI-based payment system provides a familiar and accessible payment method for all participants while maintaining transaction security.

4.3 Resource Allocation Module

Organizers allocate venues, equipment, and materials to events using this module. It tracks availability and prevents double-booking or resource conflicts. Admins can view current allocations and pending returns. Alerts notify users of low resource availability. This module ensures proper planning and supports smooth execution of events by managing logistics effectively.





4.4 Feedback Module

The Feedback Module enables participants to provide comments and ratings after attending events, helping organizers evaluate performance and identify areas for improvement. Feedback can be submitted through a user-friendly interface, with options for rating specific aspects like organization, content, and speaker quality. The collected feedback is stored securely in the database and can be viewed by admins and organizers through detailed reports. This module promotes continuous improvement, enhances event quality, and ensures participant satisfaction in future events.

4.5 Notification Module

The Notification Module delivers real-time alerts to users about event updates, registration confirmations, schedule changes, and reminders. Notifications are sent via email or in-app messages. Organizers can schedule or trigger messages based on event status. This keeps users informed and improves communication across the system. The module enhances engagement and reduces missed updates.





CHAPTER 5 IMPLEMENTATION

5.1 SOURCE CODE

login manager.init app(app)

APP.PY

from flask import Flask, render template, isonify, request, redirect, url for, flash from flask login import LoginManager, current user, login user, logout user, login required from flask wtf.csrf import CSRFProtect import os import pymysql from datetime import datetime, timedelta import ison from models.models import db, User, Event, Registration from modules.auth import auth bp from modules.event import event bp from modules.admin import admin bp from modules.organiser import organiser bp from modules.participant import participant bp from modules.payment import payment bp from modules.api organiser import api organiser bp from modules.api profile import api profile bp from modules.feedback import feedback bp app = Flask(name)app.secret key = 'cems secret key for development' app.config['SQLALCHEMY DATABASE URI'] = 'mysql+pymysql://root:1234@localhost/cems db' app.config['SQLALCHEMY TRACK MODIFICATIONS'] = False login manager = LoginManager()





```
login manager.login view = 'auth.login'
@login manager.user loader
def load user(user id):
return User.query.get(int(user id))
@app.template filter('fromjson')
def from json(value):
if value is None:
return {}
try:
return json.loads(value)
except (ValueError, TypeError):
return value
app.register blueprint(auth bp)
app.register blueprint(event bp)
app.register blueprint(admin bp)
app.register blueprint(organiser bp)
app.register blueprint(participant bp)
app.register blueprint(payment bp)
app.register blueprint(api organiser bp)
app.register_blueprint(api_profile_bp)
app.register_blueprint(feedback_bp)
for dir path in ['static/uploads/images', 'static/uploads/videos', 'static/uploads/brochures']:
if not os.path.exists(dir path):
os.makedirs(dir path)
@app.route('/')
def home():
try:
```





```
featured events = Event.query.order by(Event.start date.desc()).limit(6).all()
return render template('index.html', featured events=featured events)
except Exception as e:
return f"Error loading home page: {e}", 500
@app.route('/events')
def events list():
try:
page = request.args.get('page', 1, type=int)
per page = 9
category = request.args.get('category', ")
date filter = request.args.get('date', ")
status = request.args.get('status', ")
search = request.args.get('search', ")
payment filter = request.args.get('payment', ")
query = Event.query
if category:
query = query.filter by(category=category)
if payment filter:
if payment filter == 'free':
query = query.filter by(is free=True)
elif payment_filter == 'paid':
query = query.filter by(is free=False)
if date filter:
today = datetime.now().date()
if date filter == 'today':
query = query.filter(db.func.date(Event.start_date) == today)
elif date filter == 'tomorrow':
tomorrow = today + timedelta(days=1)
```





```
query = query.filter(db.func.date(Event.start_date) == tomorrow)
elif date filter == 'week':
week end = today + timedelta(days=7)
query = query.filter(db.func.date(Event.start_date) >= today, db.func.date(Event.start_date)
<= week end)
elif date filter == 'month':
month end = today + timedelta(days=30)
query = query.filter(db.func.date(Event.start_date) >= today, db.func.date(Event.start_date)
<= month end)
if status:
if status == 'open':
query = query.filter(Event.seats available > 0)
elif status == 'closed':
query = query.filter(Event.seats available <= 0)
if search:
search term = f''\%{search}%"
query = query.filter(db.or (
Event.name.like(search term),
Event.description.like(search term),
Event.venue.like(search term)
))
query = query.order by(Event.start date.asc())
events pagination=query.paginate(page=page, per page=per page, error out=False)
events = events pagination.items
pagination = {
'page': page,
'pages': events pagination.pages,
'total': events pagination.total,
'prev url': url for('events list', page=page-1, category=category, date=date filter,
```





```
status=status, search=search) if events pagination.has prev else None,
'next url': url for('events list', page=page+1, category=category, date=date filter,
status=status, search=search) if events pagination.has next else None,
'iter pages': events pagination.iter pages,
'get url': lambda p: url for('events list', page=p, category=category, date=date filter,
status=status, search=search)
current date = datetime.now().date()1
return render template('events.html', events=events, pagination=pagination,
current date=current date)
except Exception as e:
return f"Error loading events page: {e}", 500
@app.route('/events/int:event id/register')
@login required
def register event(event id):
if current user.role != 'participant':
flash('Only participants can register for events', 'error')
return redirect(url for('event.event detail', event id=event id))
try:
event = Event.query.get or 404(event id)
if not hasattr(event, 'is free') or event.is free is None:
event.is free = True
if not hasattr(event, 'price') or event.price is None:
event.price = 0
if event.seats available <= 0:
flash('This event is sold out', 'error')
return redirect(url for('event.event detail', event id=event id))
existing registration = Registration.query.filter by(
```





```
event id=event id,
user id=current user.id
).first()
if existing registration:
flash('You are already registered for this event', 'info')
return redirect(url for('participant.dashboard')
new registration = Registration(
event id=event id,
user_id=current_user.id,
payment status='pending' if not event.is free and event.price > 0 else 'completed'
event.seats available -= 1
db.session.add(new registration)
db.session.commit(
if event.price > 0:
return redirect(url for('payment.process', registration id=new registration.id))
from utils.email service import send registration confirmation
send registration confirmation(current user, event, 'completed')
flash('Successfully registered for the event!', 'success')
return redirect(url for('participant.dashboard'))
except Exception as e:
db.session.rollback()
flash(f'An error occurred during registration: {str(e)}', 'error')
return redirect(url for('event.event detail', event id=event id))
@app.route('/preview registration theme/<theme>')
def preview registration theme(theme):
try:
```





```
available themes = ['creative', 'elegant', 'minimalist', 'retro', 'tech']
if theme not in available themes:
return f"Theme '{theme}' is not available.", 404
event name = request.args.get('event name', 'Sample Event')
event description = request.args.get('event description', 'This is a preview of how the
registration form will look with this theme.')
is preview = request.args.get('is preview', 'false').lower() == 'true'
event data = {
'name': event name,
'start date': datetime.now().strftime('%Y-%m-%d'),
'start time': '10:00 AM',
'venue': 'Sample Venue, Location',
'description': event description,
'organiser': 'Event Organiser',
'price': 500,
'is free': False
context = {
'event': event data,
'is preview': is preview,
'theme name': theme,
'theme assets path': '/static/theme assets/',
'static url': '/static'
theme template = f'registration themes/{theme}.html'
return render template(theme template, **context)
except Exception as e:
import traceback
```

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traceback.print exc()

return f"Error loading theme: {str(e)}", 500

@app.errorhandler(404)

def not found(e):

return "Page not found.", 404

@app.errorhandler(500)

def server error(e):

return f"Internal server error: {e}", 500

with app.app_context():

db.create all()

if name == 'main':

app.run(debug=True)

EMAIL SERVICE.PY

import os

import smtplib

import random

import string

from email.mime.text import MIMEText

from email.mime.multipart import MIMEMultipart

from flask import current app, session

EMAIL HOST = "smtp.gmail.com"

EMAIL PORT = 587

EMAIL USER = "saravanapriyan99940@gmail.com"

EMAIL PASSWORD = "yzyd rymg hlmd qzqf"

def send email(to email, subject, body):

try:

msg = MIMEMultipart()

msg['From'] = EMAIL USER

msg['To'] = to email

msg['Subject'] = subject

msg.attach(MIMEText(body, 'html'))

server = smtplib.SMTP(EMAIL HOST, EMAIL PORT)

server.starttls()





```
server.login(EMAIL USER, EMAIL PASSWORD)
server.send message(msg)
server.quit()
print(f"Email sent successfully to {to email}")
return True
except Exception as e:
print(f"Email error: {str(e)}")
return False
def generate otp(length=6):
return ".join(random.choices(string.digits, k=length))
def send otp email(email, otp, purpose="verification"):
try:
email body = f"""
<html>
<head>
<style>
body {{ font-family: Arial, sans-serif; line-height: 1.6; color: #333; }}
.container {{ max-width: 600px; margin: 0 auto; padding: 20px; }}
.header {{ background-color: #3e64ff; color: white; padding: 10px 20px; border-radius: 5px 5px 0 0;
}}
.content {{ padding: 20px; border: 1px solid #ddd; border-top: none; border-radius: 0 0 5px 5px; }}
.otp-box {{ font-size: 24px; letter-spacing: 5px; text-align: center;
background-color: #f5f5f5; padding: 15px; border-radius: 5px; margin: 20px 0; }}
.warning {{ color: #dc3545; font-size: 12px; margin-top: 15px; }}
.footer {{ margin-top: 20px; font-size: 12px; color: #777; }}
&lt:/style>
</head>
<body>
<div class="container">
<div class="header">
<h2>Your Verification Code&lt;/h2>
</div>
<div class="content">
<p>Hello,&lt;/p>
<p>You requested a verification code for {purpose}. Please use the following OTP to complete
your process:</p>
<div class="otp-box">
<strong>{otp}&lt;/strong>
&lt:/div>
```





<p>This OTP is valid for 10 minutes.</p>

print(f"OTP email error: {str(e)}")

return False

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<p class="warning">If you didn't request this OTP, please ignore this email or contact support if

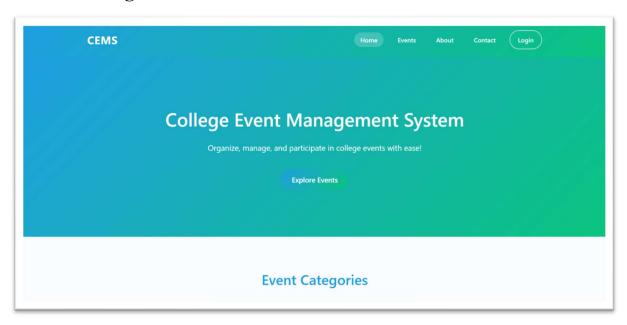
you believe this is suspicious activity.</p> <p>Regards,
College Event Management System Team</p> </div> <div class="footer"> <p>This email was sent to {email}. If you prefer not to receive these emails, please contact support.</p> </div> </div> </body> </html> ****** return send email(email, "Your OTP Verification Code for CEMS", email body) except Exception as e:



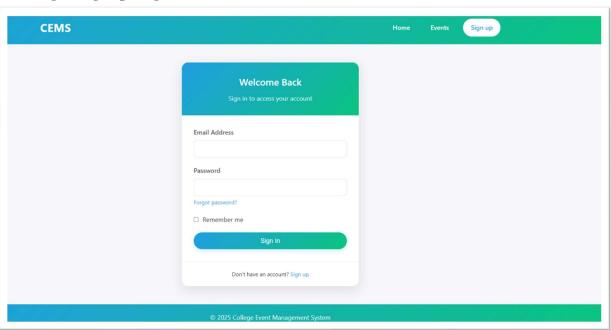


CHAPTER 6 SNAPSHOT

6.1 Home Page



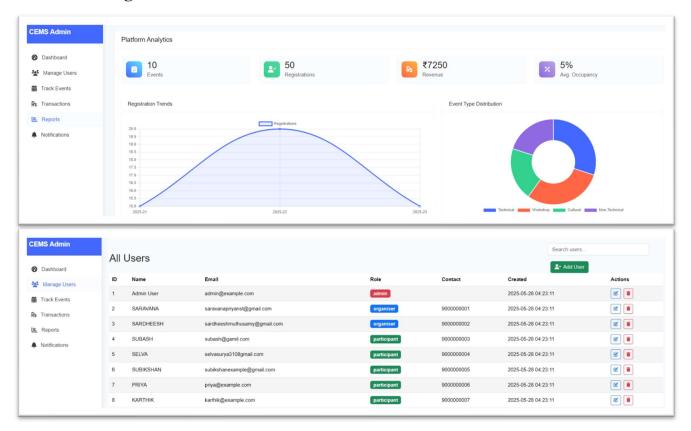
6.2 Login/Signup Page



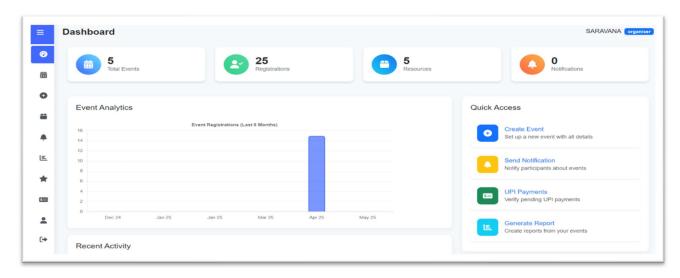




6.3 Admin Page

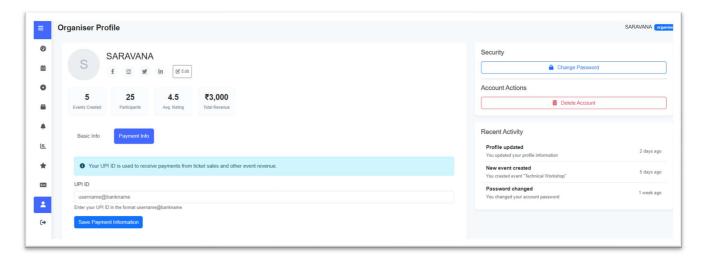


6.4Organizer Page

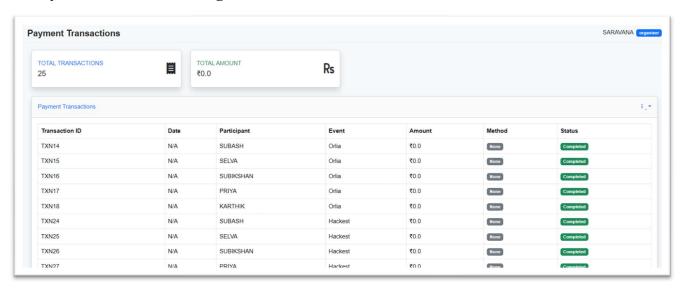








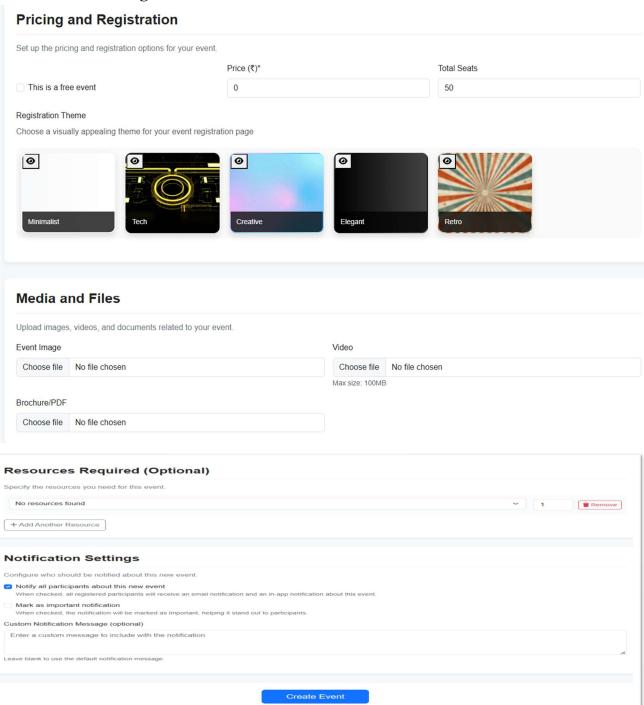
Payment Transaction Page







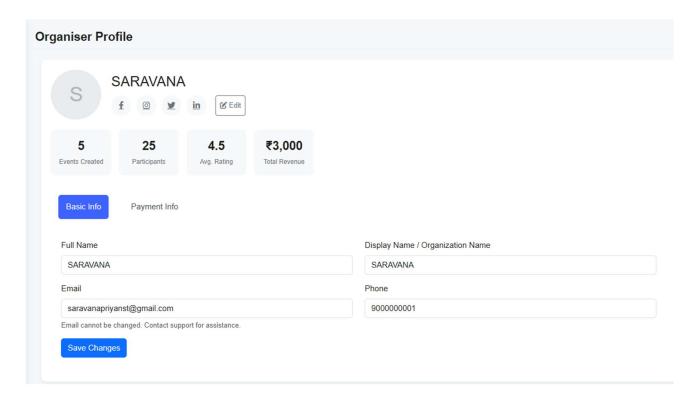
Event Creation Page



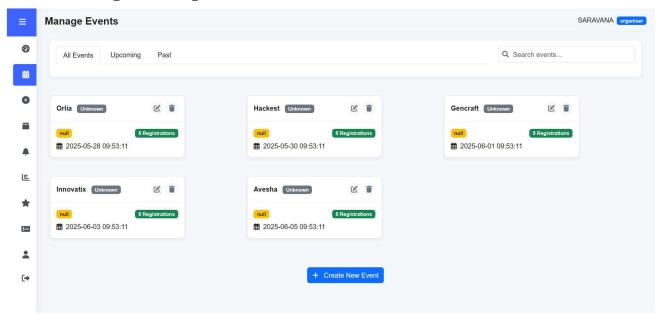




Organiser Profile Page



Event Management Page

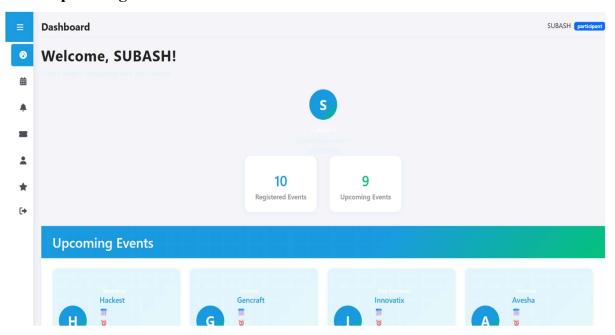




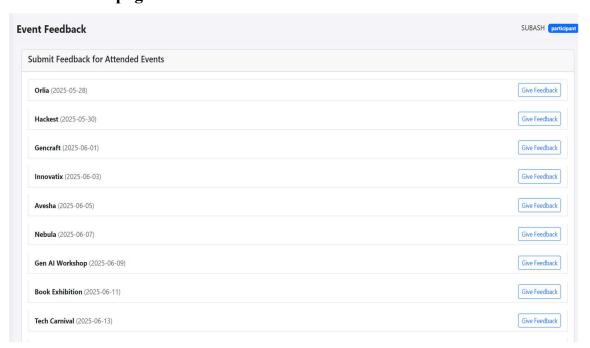
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6.4 Participant Page



Event Feedback page



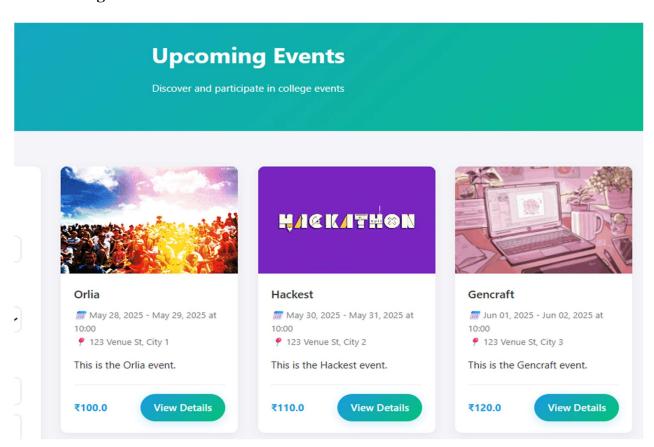




Participant Ticket



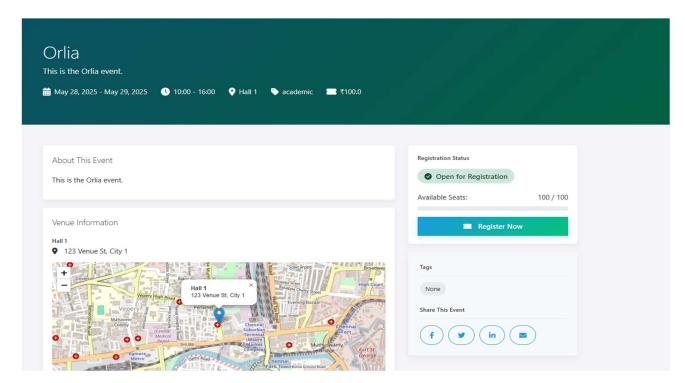
6.5Event Page



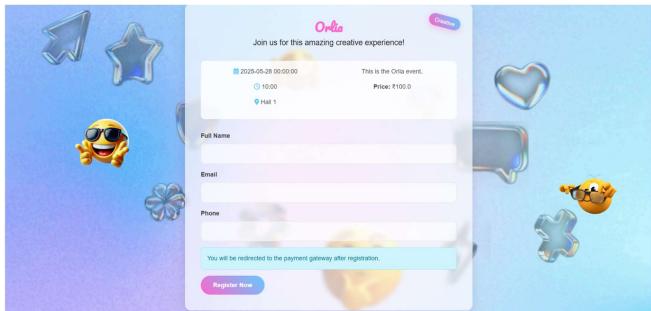




Event details page



Event registration page







₹100.0

Event Payment page

Complete Your Payment

Orlia

Event Details Amount

Name: Orlia

Date: 2025-05-28

Time: 10:00

Venue: Hall 1

UPI Payment

Pay using any UPI app like Google Pay, PhonePe, BHIM, Paytm

Scan QR to pay



UPI Payment Details

Payee: SARAVANA

UPI ID: saravanapriyanst@okicici

Amount: ₹100.0

Reference: EVENT1REG51

After payment, the system will automatically

verify and record your transaction.





CONCLUSION

The College Event Management System (CEMS) is a fully functional web application developed to simplify the planning, organization, and execution of college events. It offers a secure and user-friendly platform for participants to explore events, register, and receive real-time updates. Admins and organizers can manage events, registrations, payments, and resource allocations through dedicated dashboards. The system applies DBMS principles such as ER modeling, normalization, and SQL queries to maintain data consistency and optimize performance. Role-based access control and encrypted authentication safeguard the platform from unauthorized use. Real-time notifications and analytics improve coordination and decision-making. The UPI payment system ensures secure and flexible transactions for paid events. Built with a modular architecture, CEMS supports scalability and easy maintenance. Each component is designed to enhance user engagement, operational efficiency, and overall system functionality. This project effectively demonstrates how database-driven systems can support complex, real-time applications in the education sector.

REFERENCES

- 1. https://pubs.aip.org/aip/acp/article/2742/1/020056/3263618/Web-application-of-college-event-management
- 2. https://ijarsct.co.in/Paper17045.pdf