



# **Vivekanand Education Society's Institute of Technology**

(Autonomous Institute Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra, NAAC accredited with 'A' Grade)

## **“EventEase-Event Management System”**

**Implemented by :  
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## **Project Report: EventEase - Event Management Web Application**

EventEase is a dynamic and user-friendly full-stack event management web application designed to simplify event discovery, creation, and participation. It allows users to browse, search, and filter events through intuitive views like Grid, List, and Calendar. Authenticated users can create, edit, and delete events. The application ensures secure login and signup using bcrypt hashing and stores data using MongoDB and MVC architecture. Responsive UI is implemented using Bootstrap for a seamless experience across devices.

### **1. Application Overview**

**EventEase** is a full-stack web application that enables users to manage and participate in events. It provides functionalities such as secure user authentication, event creation, search, filtering, and multiple views like Grid, List, and Calendar. The platform is built with a mobile-first responsive design to ensure accessibility across devices.

Users can:

- Sign up and log in securely
- Create, edit, and delete events
- Browse events using multiple views
- Filter and search events based on category, location, and keywords

EventEase aims to streamline the process of managing events for both users and organizers with an intuitive and clean UI.

## 2. Technology Stack

Layer	Technology	Purpose
<b>Frontend</b>	HTML, CSS, Bootstrap, JavaScript	UI creation, styling, responsiveness, and browser interaction
<b>Templating</b>	Jinja2 (Flask)	Dynamic HTML generation using Python variables and logic
<b>Backend</b>	Python (Flask framework)	Handles routing, business logic, session management
<b>Database</b>	MongoDB (NoSQL)	Stores user data, events, and other application data
<b>Security</b>	bcrypt	Password hashing for secure authentication

## 3. Software Requirements

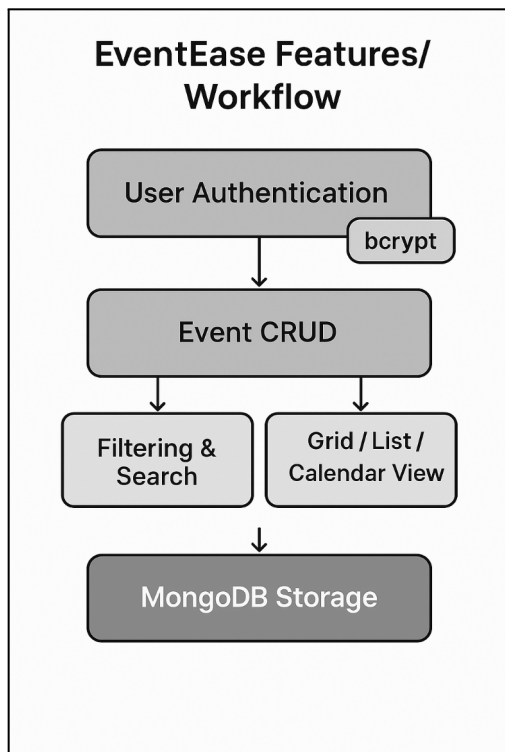
Component	Specification
Operating System	Windows 10 / Linux / macOS
Web Browser	Google Chrome, Firefox, Edge
Backend Framework	Flask (Python)
Frontend Tools	HTML, CSS, Bootstrap, JavaScript
Database	MongoDB (NoSQL)
Authentication	bcrypt
Package Manager	pip
Template Engine	Jinja2

#### 4. System Requirements

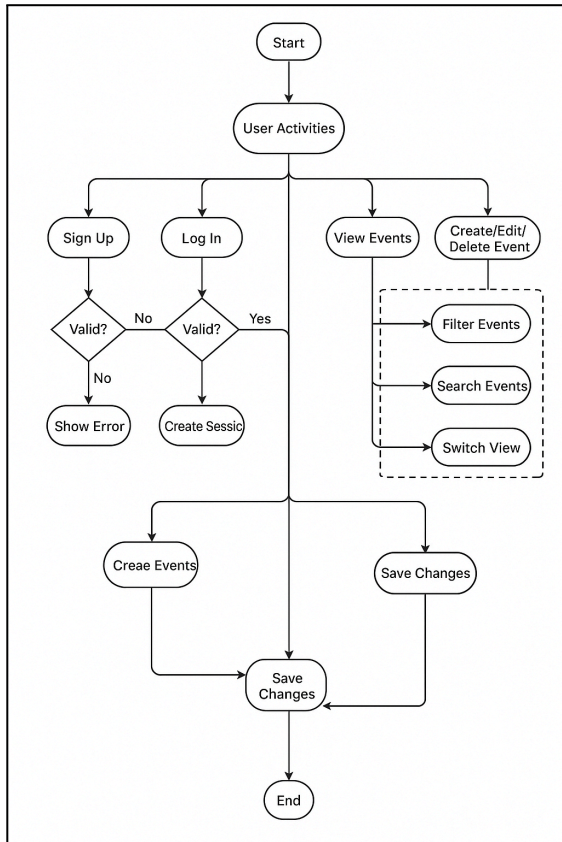
Requirement	Minimum
Processor	Intel i3 or equivalent
RAM	4 GB or more
Storage	1 GB of free disk space
Internet	Required for remote MongoDB/Bootstrap CDN

#### 5. Architectural Diagrams :

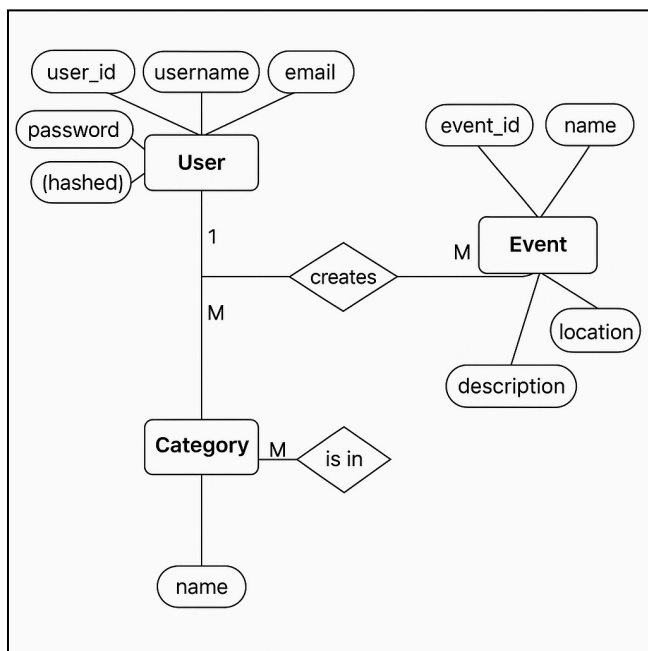
##### 5.1 Block Diagram



## 5.2 Process Flow

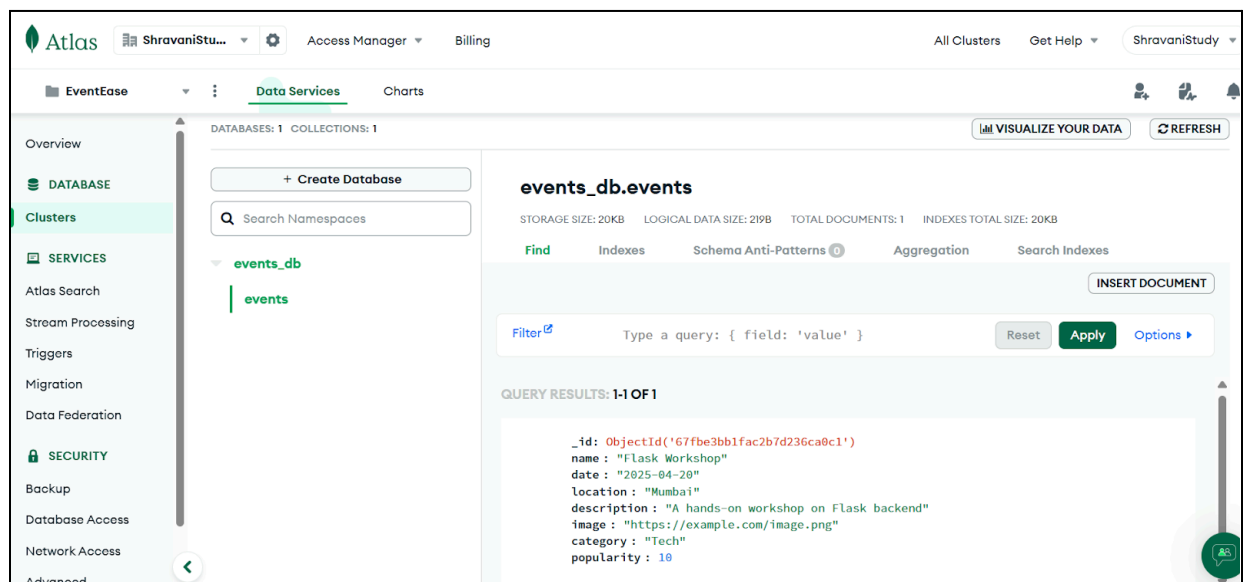
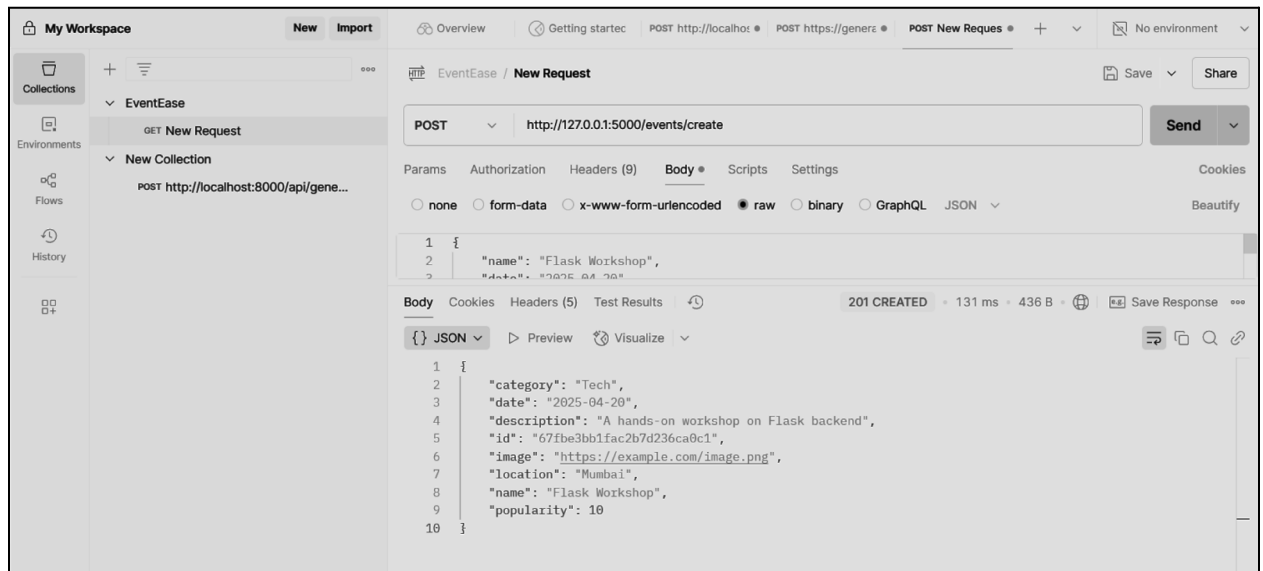


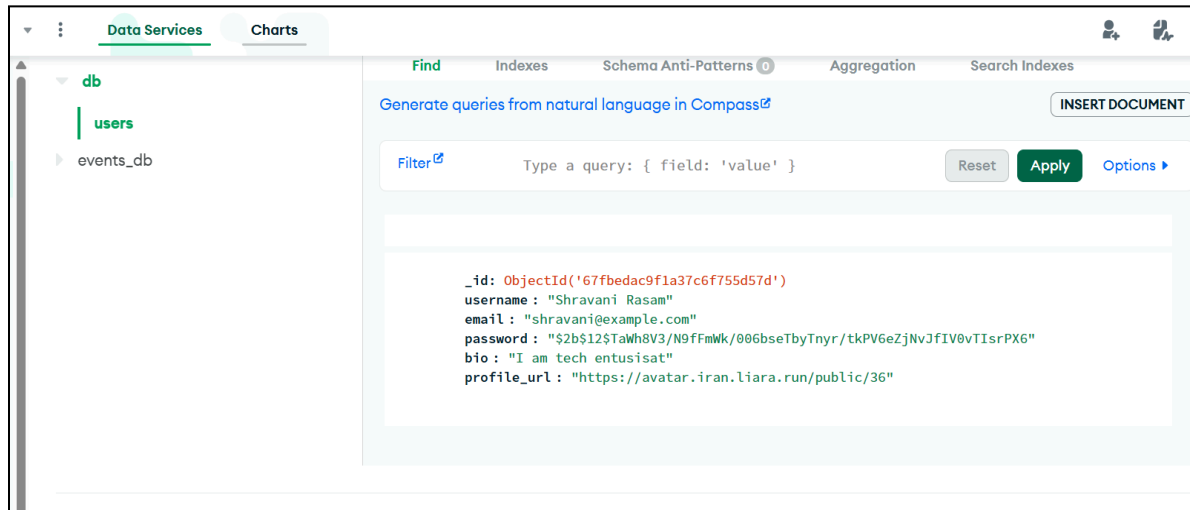
## 5.2 ER Diagram:



## 6. Implementation:

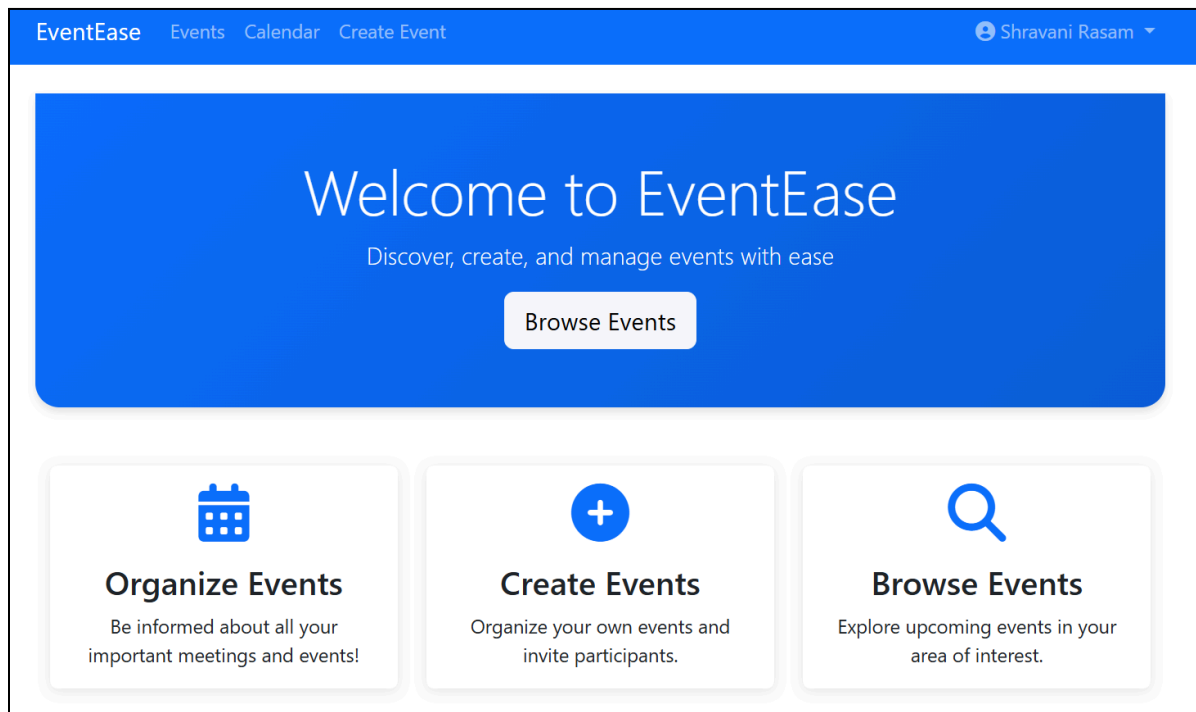
### 6.1 MongoDB :





## 6.1 Website;

Home page:





## View Events:

EventEase Events Calendar Create Event Shravani Rasam

## Events

Grid Calendar + Create Event

Search: Event name, location... Category: All Categories Location: All Locations Filter

- MongoDB Workshop**  
2025-04-20 | Panvel  
Tech  
A hands-on workshop on Mongo backend  
10 attendees
- Artificial Intelligence Workshop**  
2025-04-19 | VESIT  
Tech  
Hands on workshop  
0 attendees
- Strategy Meeting**  
2025-04-17 | Conference Room, HQ  
Business  
0 attendees

## Filter Events:

EventEase Events Calendar Create Event Shravani Rasam

## Events

Grid Calendar + Create Event

Search: Event name, location... Category: Business Location: All Locations Filter

- Strategy Meeting**  
2025-04-17 | Conference Room, HQ  
Business  
This meeting is crucial for aligning departmental goals and enhancing team productivity. Prepare your reports and proposals for review.  
0 attendees

Previous 1 2 3 Next

## Grid View:

## Events

Search

Event name, location...


Category

All Categories

Location

All Locations

Filter



MongoDB Compass

The easiest way to explore and manipulate your MongoDB data

mongoDB Atlas

Tech

10

**MongoDB Workshop**


2025-04-20

Parvel

A hands-on workshop on Mongo backend

View Details

Edit



Tech

0

**Artificial Intelligence Workshop**


2025-04-19

VESIT

Hands on workshop

View Details

Edit



Business

0

**Strategy Meeting**

2025-04-17

Conference Room, HQ

This meeting is crucial for aligning departmental goals and enhancing team productivity. Prepare...

View Details

Edit

Calendar View:

< > today

April 2025

month week day List

Sun	Mon	Tue	Wed	Thu	Fri	Sat
30	31	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	1	2	3
4	5	6	7	8	9	10

Tech

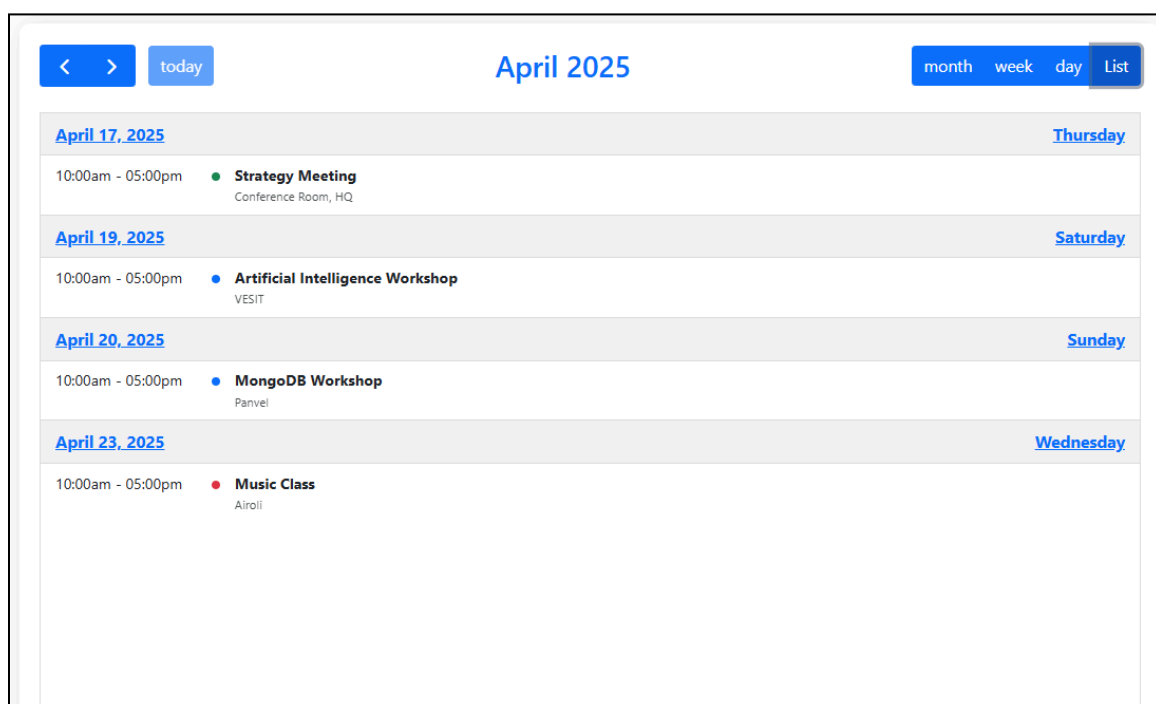
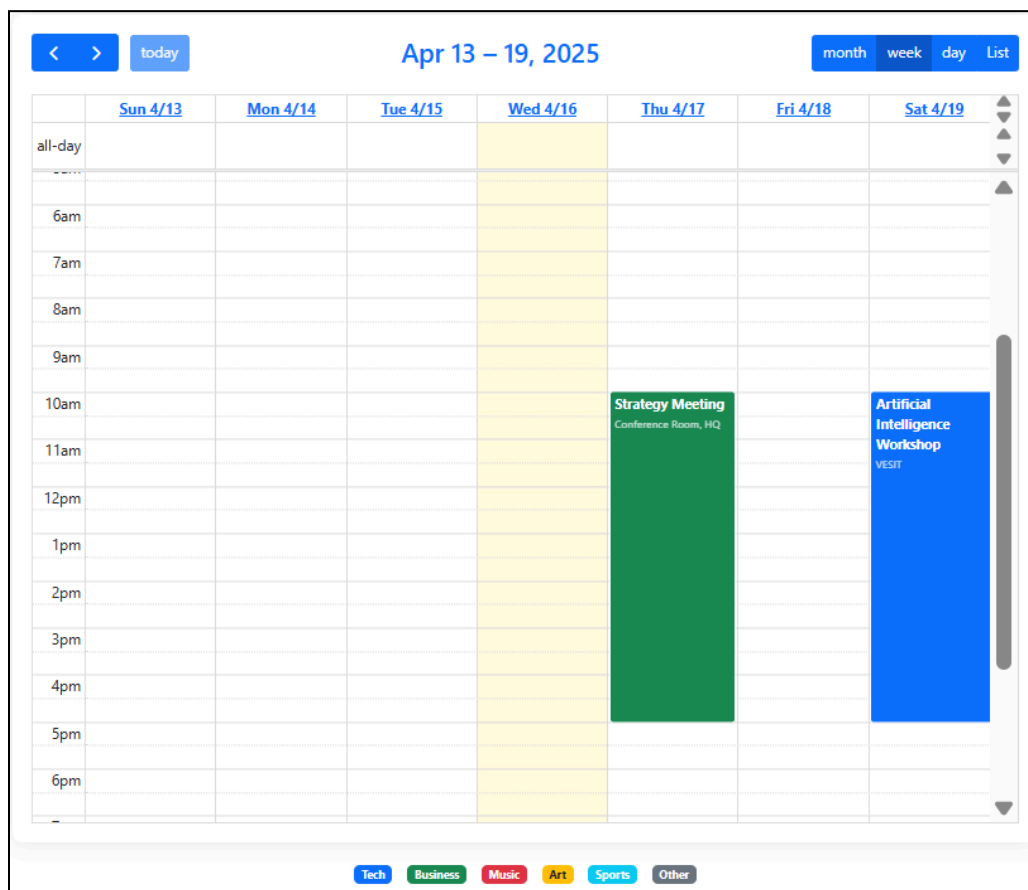
Business

Music

Art

Sports

Other



## Create Event:

### Create New Event

Event Name  
Flask Tutorial

Date  
30-04-2025

Location  
VESIT

Time  
09:00

Category  
Tech

Description

Event Image  
[https://play-lh.googleusercontent.com/d2zqBFBEymSZKaVg\\_dRo1gh3hBFn7\\_Kl9rO74xxDmnJeLg](https://play-lh.googleusercontent.com/d2zqBFBEymSZKaVg_dRo1gh3hBFn7_Kl9rO74xxDmnJeLg)  
Or upload an image  
Choose File No file chosen

Create Event

Cancel

## Update Event:

### Edit Event

Name  
Artificial Intelligence Workshop

Date  
19-04-2025

Time  
13:10

Location  
VESIT

Category  
Tech

Image URL  
[https://urbeuniversity.edu/post\\_assets/Le9zsr8bQmv7gmZW40UXiVaPsGcpVwaY65mw28tU.webp](https://urbeuniversity.edu/post_assets/Le9zsr8bQmv7gmZW40UXiVaPsGcpVwaY65mw28tU.webp)

Description  
Hands on worshop

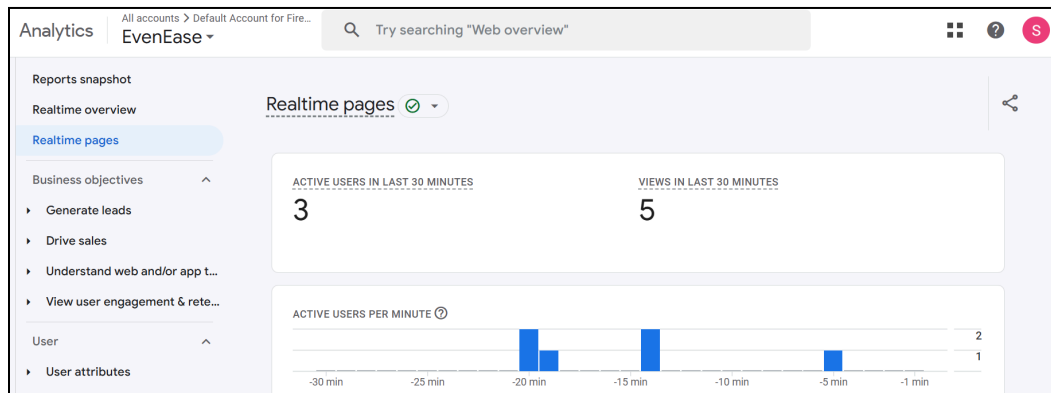
Update Event

## 7. Web Analytics:

**7.1** The image shows the Realtime report from Google Analytics for your site "EventEase", highlighting user activity in the last 30 minutes.

**Inference:** site had 3 active users and 5 total views, with most activity around 15–20 minutes ago.

**Improvement:** Enable Google Signals, set up event tracking, and define conversion goals to get deeper user insights and track key actions.



**7.2** The image shows a list of pages visited on your site in the last 30 minutes, with active users and view counts per page.

**Inference:** The homepage /, /events, and /login each had 2 active users, indicating they're the most visited pages recently.

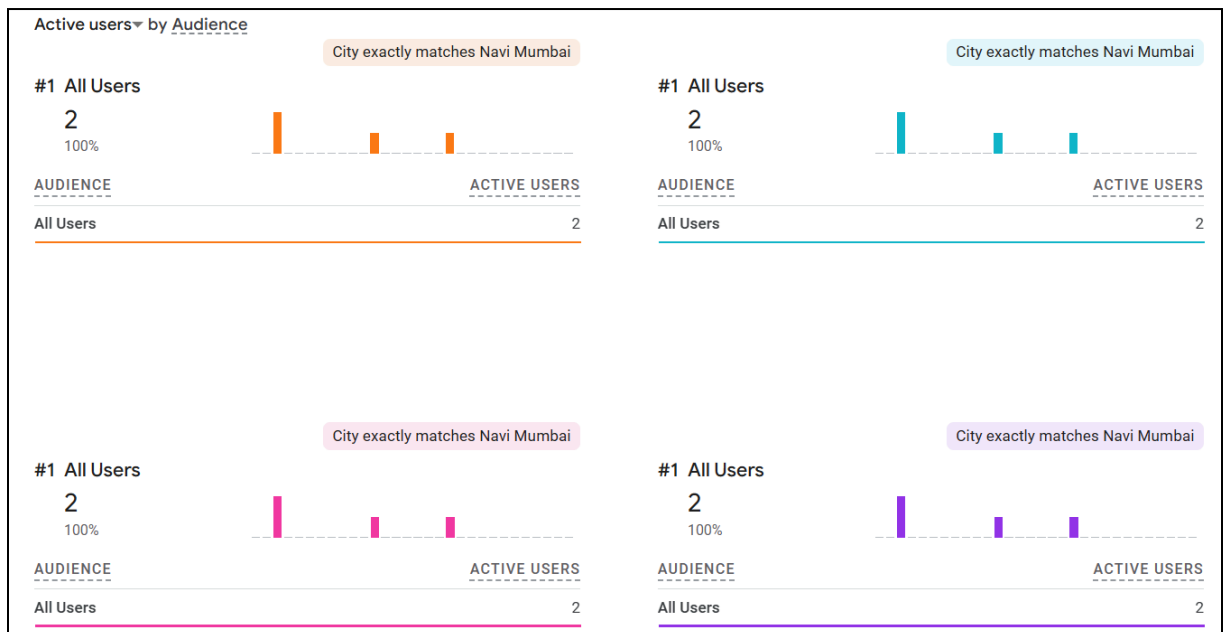
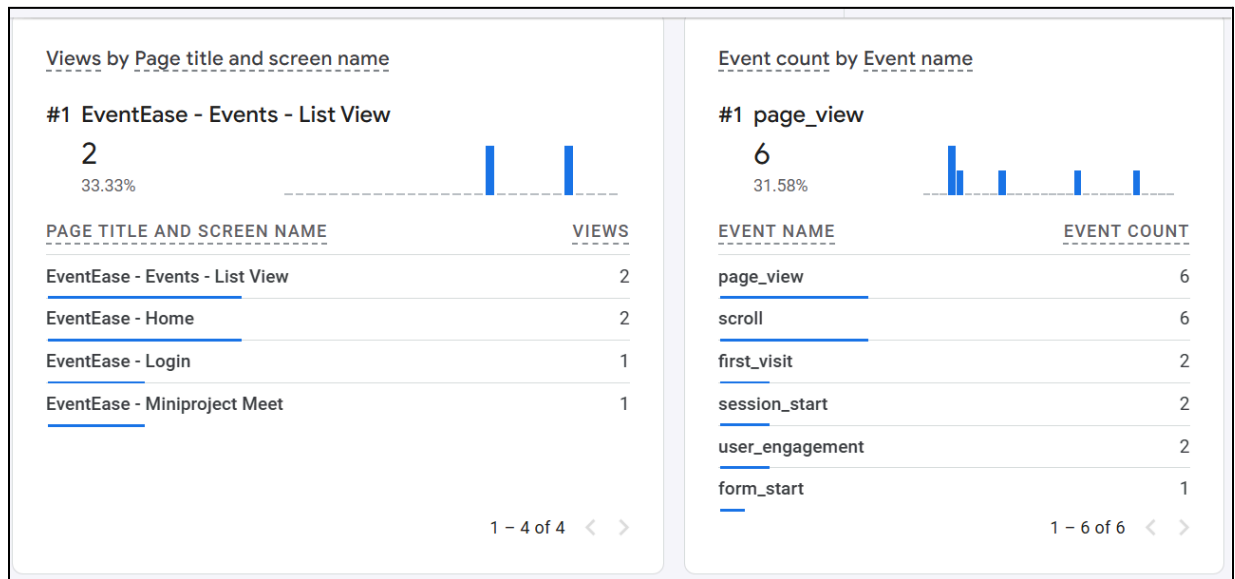
**Improvement:** Add event tracking to actions on these pages (like logins or clicks), and monitor page-level engagement to optimize UX.

Search...		Rows per page: 10	1-6 of 6
	Page path and screen class	↓ Active users	Views
1	/	2	2
2	/events	2	1
3	/login	2	1
4	/events/67ffe964b2c8d0233813c134	1	1
5	/events/calendar	1	0
6	/profile	1	0

**7.3** The image shows page views per screen title (left) and event counts by type (right) for user interactions on your site.

**Inference:** Most users viewed the "Events - List View" and Home page, and triggered key events like scrolls, page views, and form\_start.

**Improvement:** Track more custom events (e.g. button clicks, errors), and assign conversion goals to key actions like form\_start or login success.



## 8. Core Features

- User Signup/Login using bcrypt password hashing
- MongoDB database for event and user data storage
- Event creation, editing, and deletion (CRUD operations)
- Filter and search events by category, location, or name
- Dynamic views using Jinja2 templating (Grid, List, Calendar)
- Responsive and mobile-friendly UI with Bootstrap

## 9. Future Scope:

- Mobile App Integration using React Native or Flutter
- Email and SMS notifications for upcoming events
- AI-based recommendation system for personalized event suggestions
- Ticket booking and payment gateway integration
- Admin dashboard for analytics and user management
- Multi-language support for global accessibility

**Github Link:** <https://github.com/ShravaniR2412/EventEase>

## 10. Conclusion

EventEase is a secure and responsive event management solution designed with simplicity and usability in mind. It effectively utilizes the Flask framework for backend processes, MongoDB for scalable data handling, and Bootstrap for a modern UI. The project demonstrates robust authentication, flexible data management, and user-centric design. It is ideal for institutions, communities, or organizations that require a quick-to-deploy platform for managing various events.