

WEBX CA

EventEase

Event Management Web Application

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Roll no: 45



Introduction

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.

 **Event Listings:** Browse upcoming events with date, location, and category filters

 **Smart Search:** Find events by name, category, or location with instant results

 **Visual Display:** Choose between list, grid, or calendar views

 **Event Details:** View comprehensive event descriptions, locations

 **Mobile-Friendly:** Responsive design works on all devices

 **Create Update Delete :** Smooth CRUD Operations



Objective



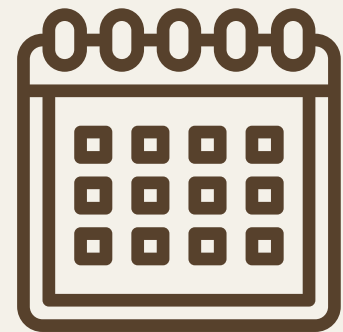
Secure Auth

Use bcrypt for safe user login/signup.



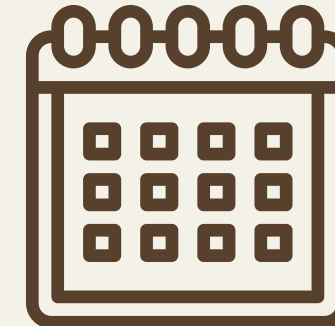
View Options

Grid, List & Calendar views for flexibility.



Event Control

Let users add, edit, delete events.



Responsive UIol

Bootstrap ensures mobile-friendly design.



Tech Stack

Tech Stack

Category	Technologies
Frontend	Flask, JavaScript, FontAwesome
Backend	Python, Flask, Flask-Login, Flask-WTF
Database	MongoDB (PyMongo)
Security	Bcrypt password hashing



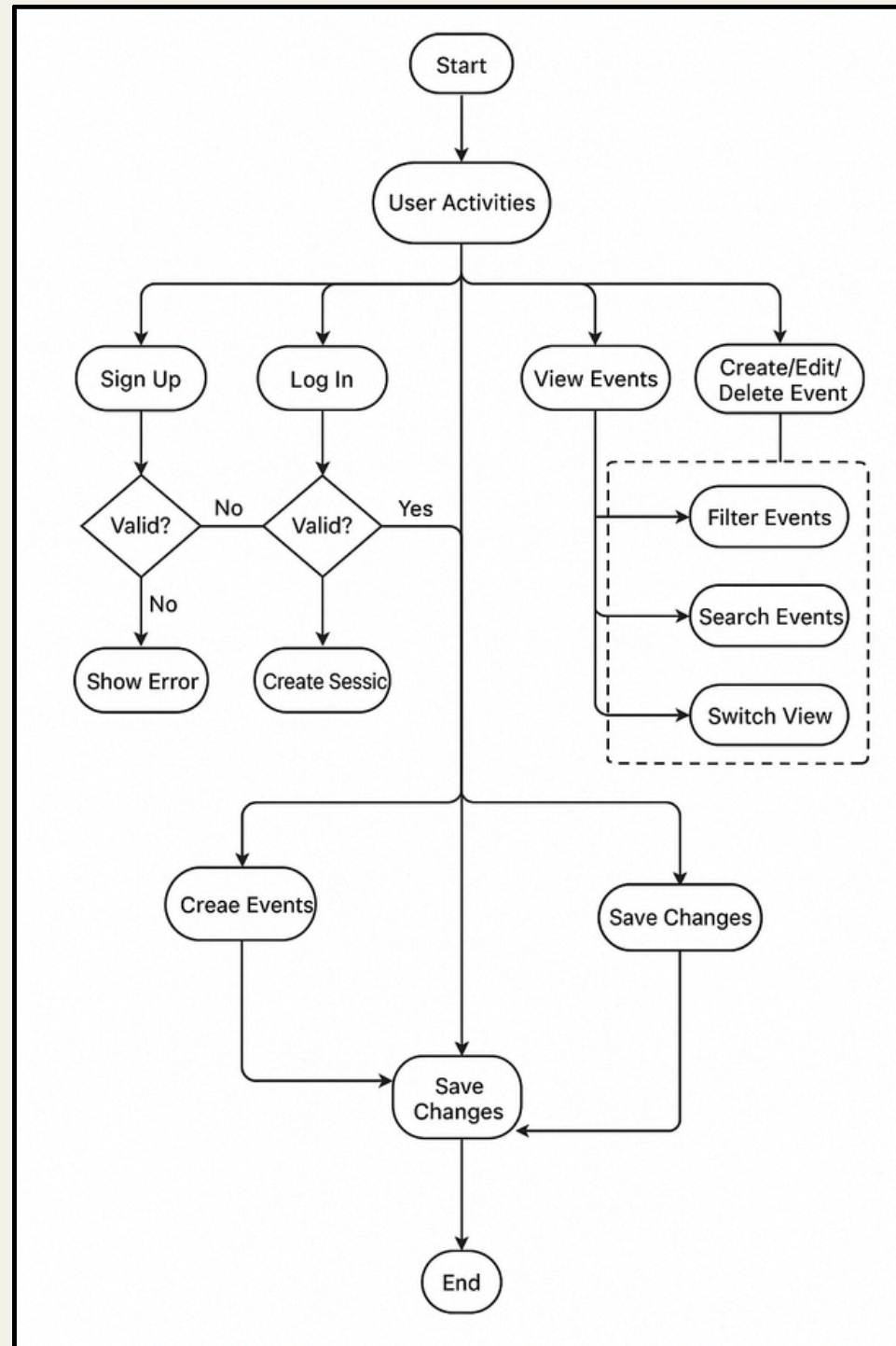
System Requirements

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

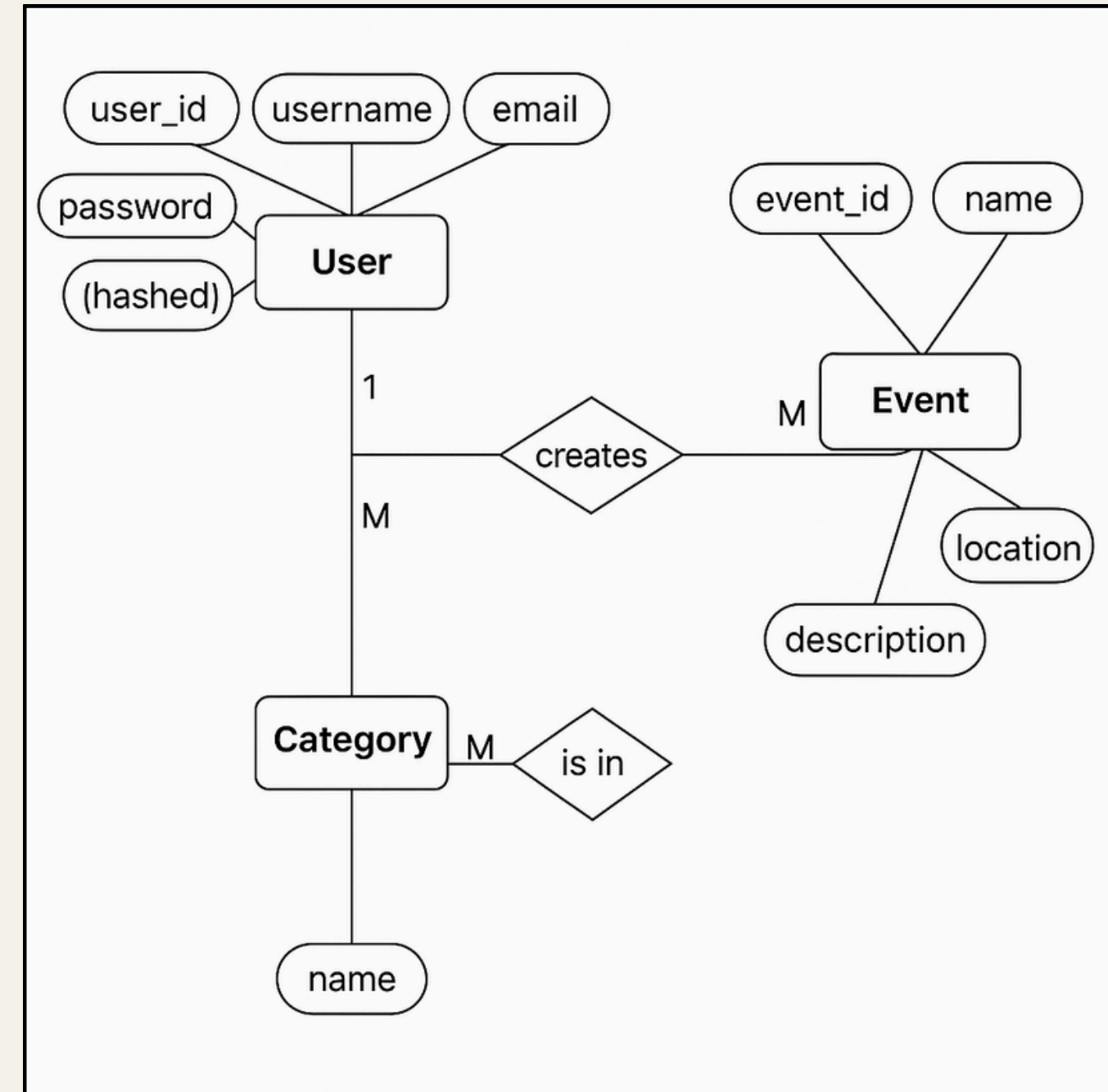


Architectural Diagrams




Process Flow



ER Diagram



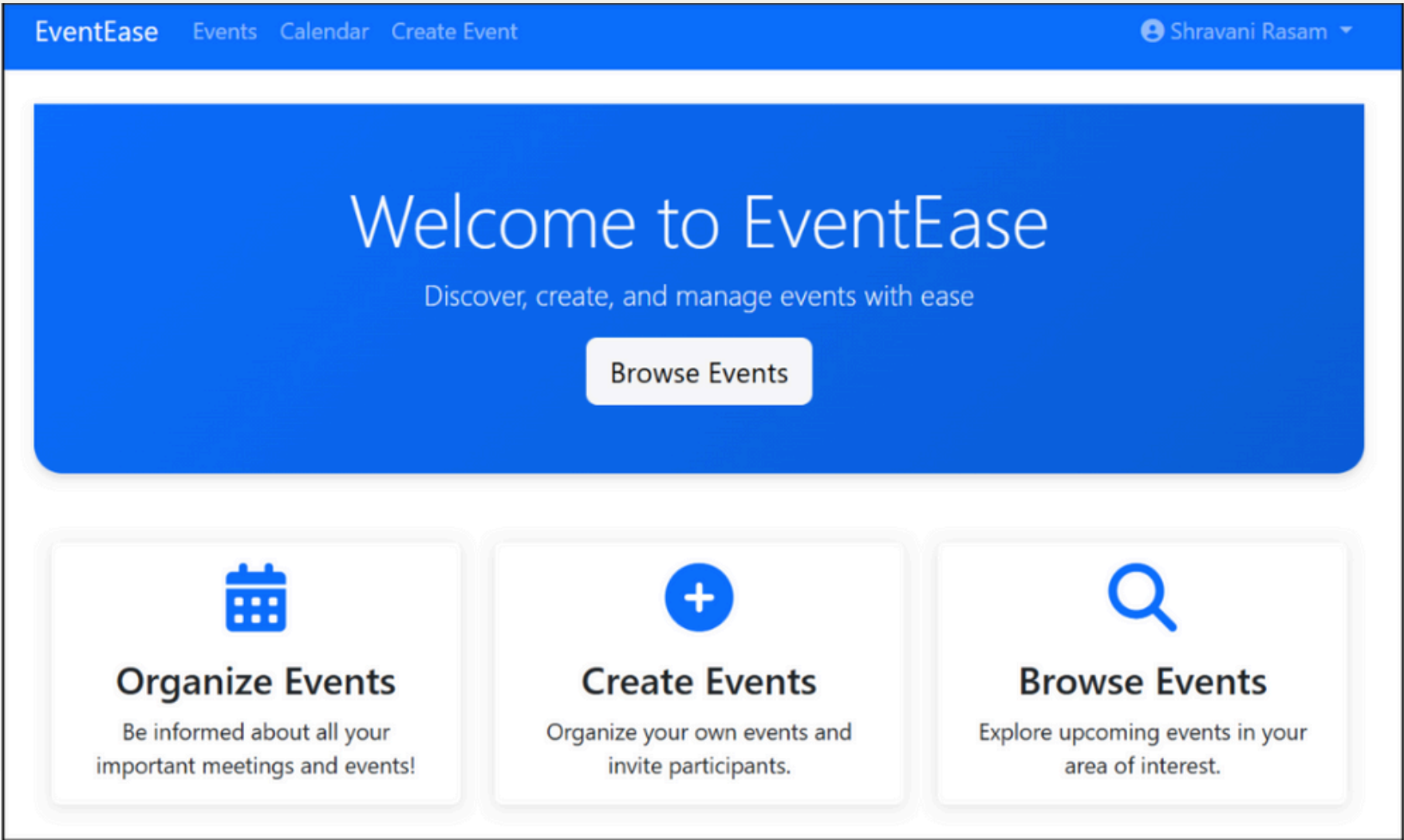
Features:

- 🔑 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

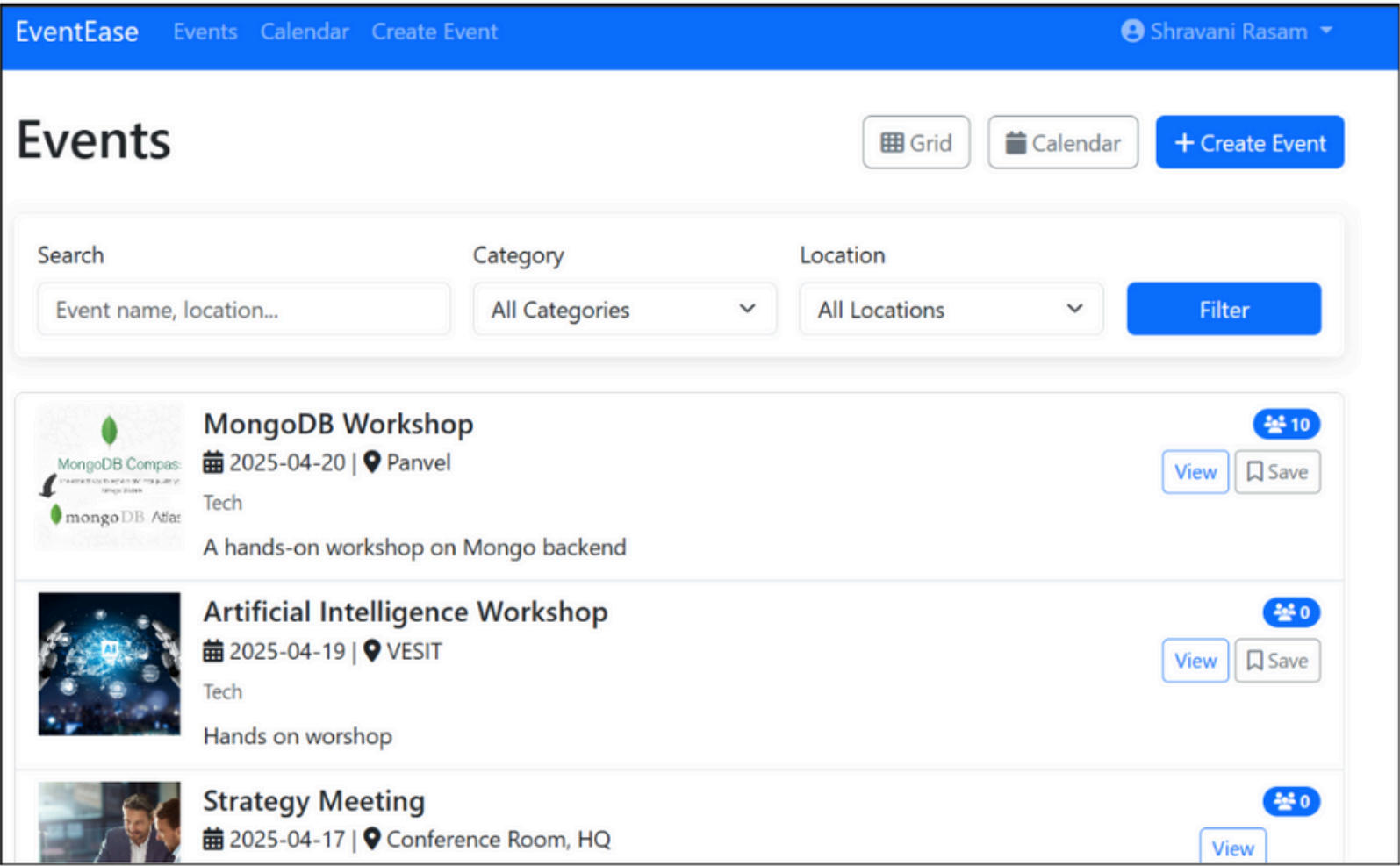


Implementation

Home



List View



Implementation

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

Panvel

A hands-on workshop on Mongo backend

View Details

Edit



Artificial Intelligence Workshop

Tech

0


2025-04-19

VESIT

Hands on worshop

View Details

Edit



Strategy Meeting

Business

0

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

MongoDB Workshop

Panvel

Strategy Meeting

Conference Room, HQ

Artificial Intelligence

VESIT

Music Class

Airoli

Implementation

Create Event:

Create New Event

Event Name

Date

Location

Time

Category

Description

Event Image

Or upload an image

Choose File

No file chosen

Create Event

Cancel

Update Event:

Edit Event

Name

Date

Time

Location

Category

Image URL

Description

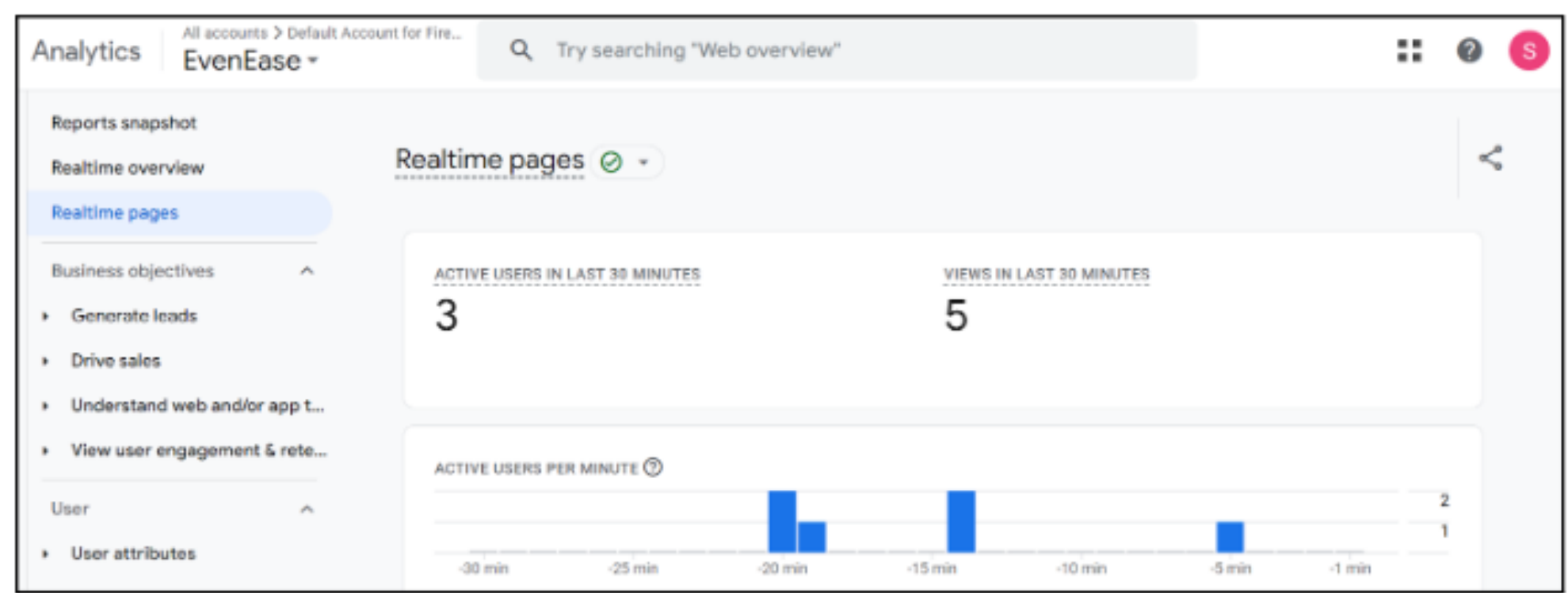
Hands on workshop

Update Event

Implementation

The screenshot displays the MongoDB Atlas web interface. The top navigation bar includes the Atlas logo, a dropdown menu for 'ShravaniStu...', 'Access Manager', and 'Billing'. On the right, there are links for 'All Clusters', 'Get Help', and another 'ShravaniStudy' dropdown. The left sidebar contains a navigation menu with sections: 'Overview', 'DATABASE' (with a sub-item 'Clusters' highlighted), 'SERVICES' (including 'Atlas Search', 'Stream Processing', 'Triggers', 'Migration', and 'Data Federation'), and 'SECURITY' (including 'Backup', 'Database Access', 'Network Access', and 'Advanced'). The main content area is titled 'Data Services' and shows 'DATABASES: 1' and 'COLLECTIONS: 1'. A '+ Create Database' button is visible. Below it, a search bar for 'Search Namespaces' shows a tree view with 'events_db' expanded and 'events' selected. The right pane displays the 'events_db.events' collection with statistics: 'STORAGE SIZE: 20KB', 'LOGICAL DATA SIZE: 219B', 'TOTAL DOCUMENTS: 1', and 'INDEXES TOTAL SIZE: 20KB'. It includes tabs for 'Find', 'Indexes', 'Schema Anti-Patterns', 'Aggregation', and 'Search Indexes'. An 'INSERT DOCUMENT' button is present. A query filter bar shows 'Type a query: { field: 'value' }' with 'Reset', 'Apply', and 'Options' buttons. The query results section shows 'QUERY RESULTS: 1-1 OF 1' and a single document with the following fields: '_id: ObjectId('67f6e3bb1fac2b7d236ca0c1')', 'name: "Flask Workshop"', 'date: "2025-04-20"', 'location: "Mumbai"', 'description: "A hands-on workshop on Flask backend"', 'image: "https://example.com/image.png"', 'category: "Tech"', and 'popularity: 10'.

Web Analytics



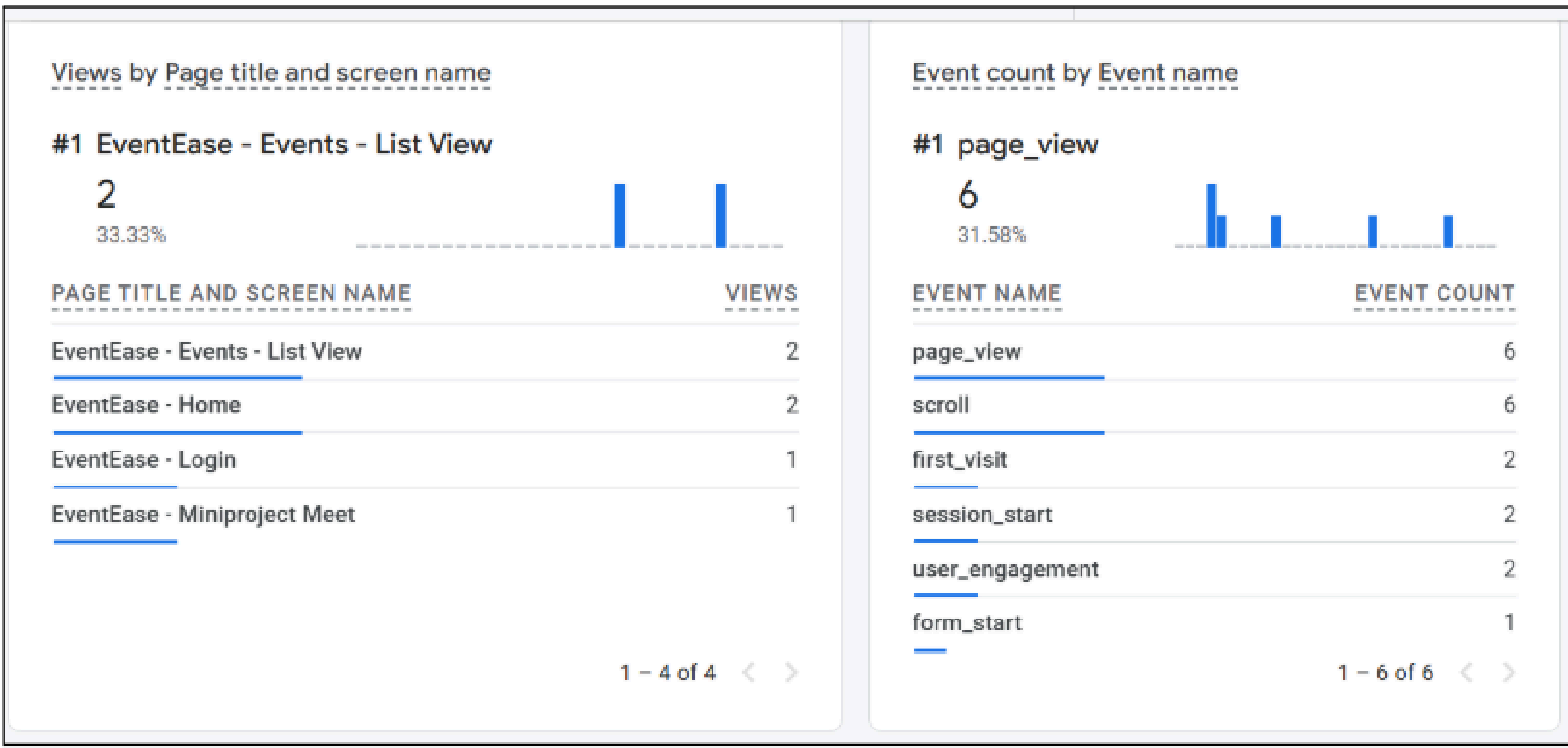
Page path and screen class in last 30 minutes

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

Web Analytics



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

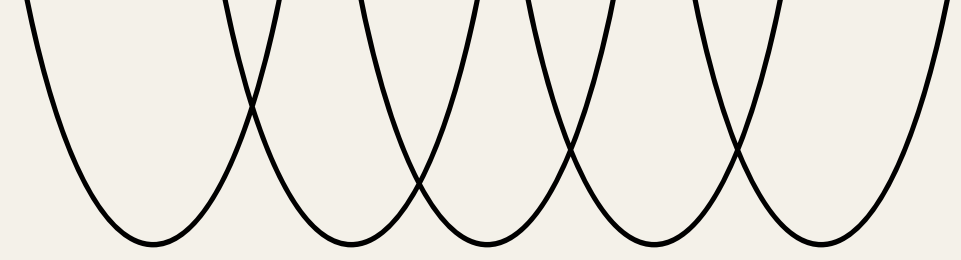


Conclusion

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.

[Github:](#)





Thank You!

