

## Training Project Lab Architecture

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### **Basic features**

#### 1/ User Authentication:

- As a new user, I want to register for an account so that I can access the system.
- As a registered user, I want to log in using my credentials to access my dashboard and manage my events.
- As a logged-in user, I want to reset my password if I forget it.
- As a logged-in user, I want to log out securely from my account.

#### 2/ Dashboard:

- As a logged-in user, I want to view a summary of upcoming events that I've RSVPed to or created.
- As a logged-in user, I want to view statistical data, such as the number of events I've attended or created.

#### 3/ Event Management:

- As a logged-in user, I want to create a new event by providing necessary details like event name, date, location, and description.
- As an event creator, I want to edit my event's details in case there are any changes.
- As an event creator, I want to delete an event if it's no longer happening.
- As a logged-in user, I want to view details of any event.

#### 4/ RSVP Management:

- As a logged-in user, I want to RSVP to an events I'm invited to with statuses like 'Going', 'Maybe', or 'Not Going'.
- As an event creator, I want to view a list of people who have RSVPed and their respective statuses.

As an event attendee, I want to change my RSVP status in case my plans change.

#### 5/Invitations and Notifications:

- As an event creator, I want to send out invitations to specific users or email addresses.
- As a logged-in user, I want to receive notifications about new event invitations.
- As an event creator, I want to send reminders to attendees as the event date approaches.

#### 5/ Search and Filter:

- As a logged-in user, I want to search for specific events by name, location, or date.
- As a logged-in user, I want to filter events based on categories or my attendance status

### **Advanced features**

I also want to more advanced stuff to make it actually useful ,but that is going to depend on how much time I have , some of the advanced features that I have in mind are :

#### 1/Advanced User Profiles:

- Allow users to have profile pictures, bios, and links to their social media.
- Provide an event history section where users can see all the events they've attended or created.

#### 2/Event Ticketing:

- Allow event creators to sell tickets directly through the platform.
- Integrate with payment gateways like Stripe or PayPal for handling transactions.

#### 3/Recurring Events:

- Let event creators set up events that occur regularly (daily, weekly, monthly).
- Offer reminders for recurring events.

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### 3/Third-party Calendar Integration:

- Allow users to sync their events with external calendars (Google Calendar, Apple Calendar, Outlook, etc.).

### 4/Location Features:

- Integrate with map APIs (like Google Maps) to show event locations.
- Provide geolocation-based event recommendations to users.

### 5/Real-time Chat for Events:

- Implement a chat room for each event where attendees can discuss details and network before and after the event.
- Consider using technologies like WebSockets

### 6/Rating and Review System:

- Allow attendees to rate and review events they've attended.
- Event creators can receive feedback to improve future events.

### 7/Recommendation Engine: (this one is a long shot :))

- Recommend events to users based on their past attendance, interests, or friends' activity.

### 8/Social Media Integration:

- Allow users to share events they're attending or interested in on their social media platforms.
- Enable event creators to promote their events through social media channels directly from the platform.

More features from here:

### 6/Multi-language Support: ( this one is also a long shot )

- Internationalize your platform to cater to a global audience.

### 7/Accessibility Features:

Ensure that your platform is accessible to all users, including those with disabilities. This can include voice navigation, screen reader support, and more.

### 8/ Analytics Dashboard for Event Creators:

Provide event creators with detailed analytics about attendees, ticket sales, feedback, etc.

### 9/Virtual Event Support:

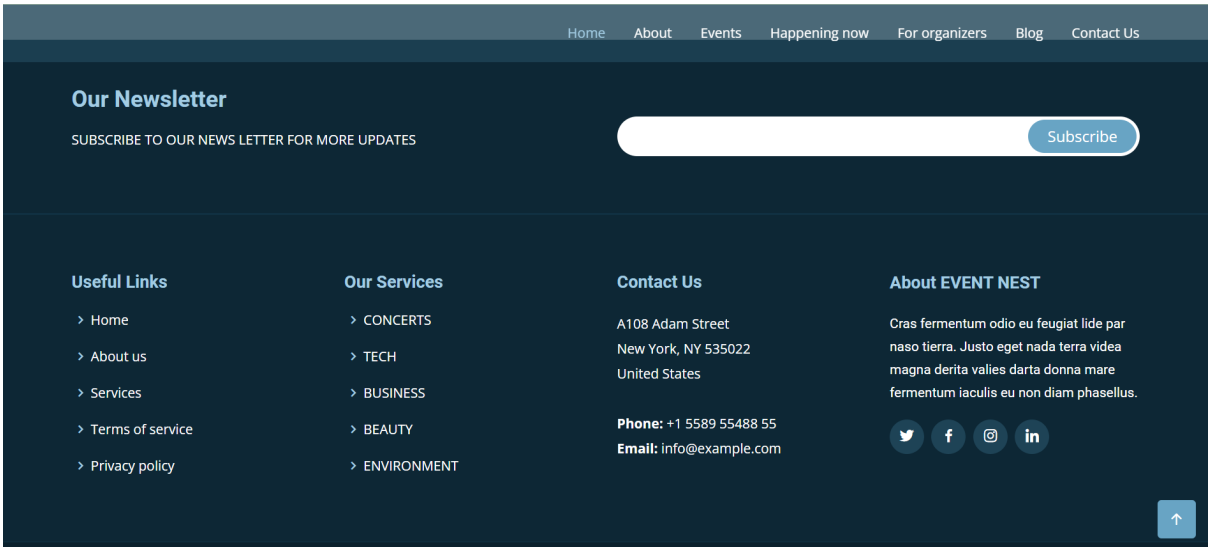
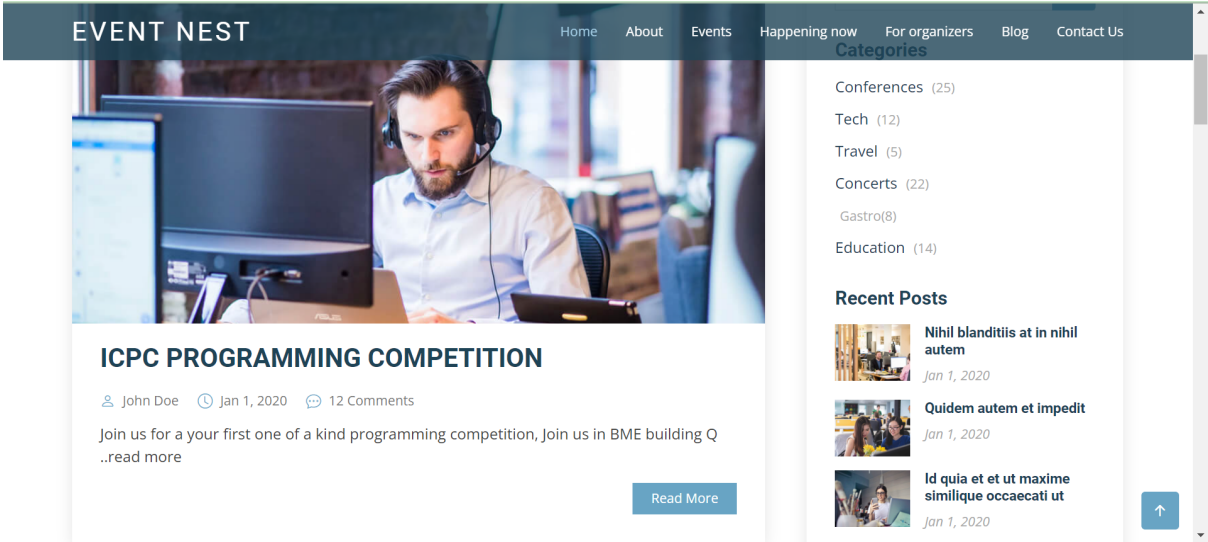
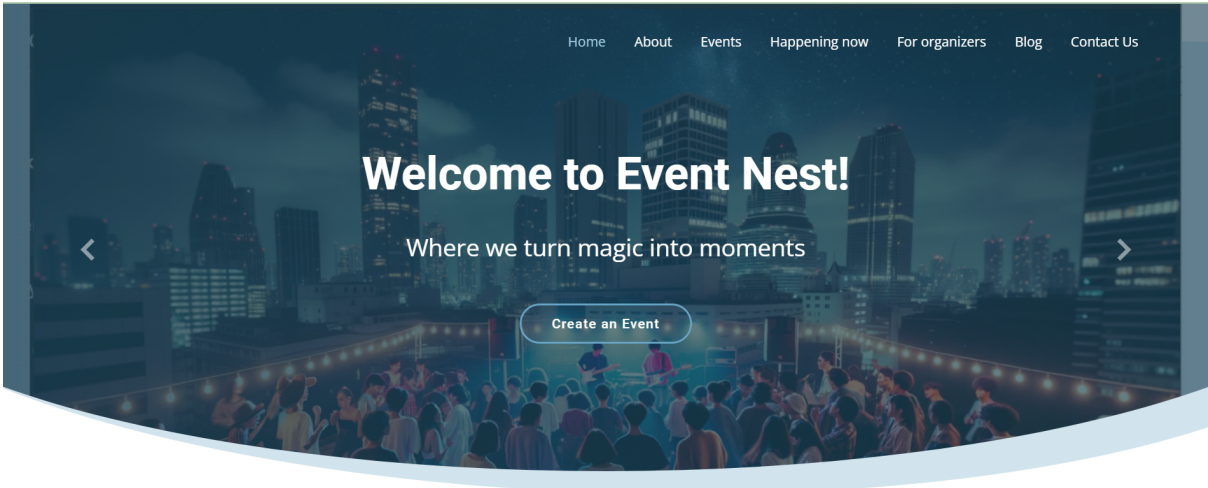
Given the increasing popularity of virtual events, incorporate features like video streaming. Platforms like Zoom or WebRTC can be integrated to facilitate this.

### 10/ Security Enhancements:

Implement advanced security features like 2-factor authentication.

For the implementation I will be using MEAN STACK (mongoDB, Angular, ExpressJs, NodeJs)

As for the website design, I have made some template for the landing page, as well as the navigation bar, header, footer, contact page and an example of one of the pages and here's how it will look like:





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**Email Us**

info@example.com  
contact@example.com



**Call Us**

+1 5589 55488 55  
+1 6678 254445 41

Your Name

Your Email

Subject

Message

Send Message