



# **Dhirubhai Ambani** **University** Technology

Formerly DA-IICT

**Project Created By:-  
Group-2**

**Guided By:-  
Prof. JayPrakash Lalchandani**

**Team members:-**  
202412013 - Parth Chauhan  
202412026 - Jain Tisha Navinkumar  
202412029 - Joshi Preksha  
202412032 - kaival Shah  
202412066 - Patel Dhruv Alkeshbhai  
202412079 - Rajvi Khatri  
202412101 - Shah Yashvi Devangkumar  
202412119 - Ritik kalal

# **1. Project Description:-**

**Project Title:** 'EventHub - Event Management System'

## **Description:**

- EventHub is a modern, all-in-one event management system designed to simplify event creation, promotion, ticketing, attendee engagement, and analytics. It provides both web (admin-focused) applications that help organizers efficiently manage all aspects of events while giving attendees an easy discovery and booking experience.

## **# Target Users:**

1. **Individual Organizers** – hosting workshops, classes, parties, or small events.
2. **Event Agencies** – managing multiple events, ticketing, and promotions.
3. **Corporates** – arranging conferences, exhibitions, and webinars.
4. **Communities & Non-Profits** – running fundraisers, awareness programs, and festivals.
5. **Attendees** – individuals who want to discover, attend, and track events easily.

## **Use Cases:**

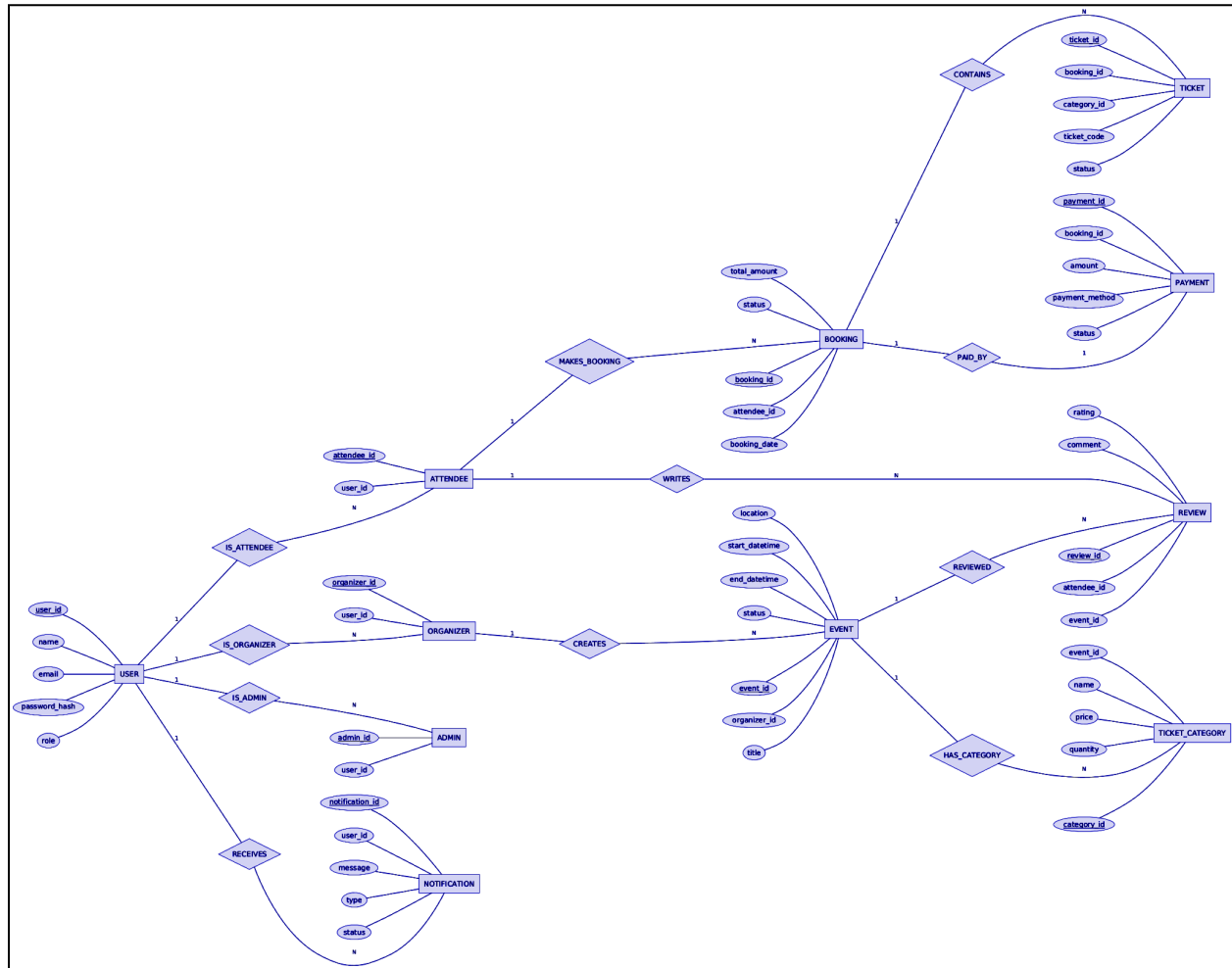
### **● For Organizers:**

- Create customized events with images, categories, and descriptions.
- Define ticket types (free, paid, early bird, discounts).
- Track organizer's revenue, and ticket sales.

### **● For Attendees:**

- Discover upcoming events nearby through search and categories.
- Register or buy tickets with secure online payment options.
- Get booking reminders and updates.
- Store and show tickets digitally at the venue.
- Share events with friends and community via social media.

## ER Diagram:-



# Frontend Architecture:-

## Current Frontend Features Implemented:-

### 1. Authentication & User Access

- **Login & Signup pages** designed with clean Tailwind components.
- Basic validation and responsive form layouts.
- Modular structure for authentication logic (as seen in `AUTHENTICATION_SETUP.md`).

### 2. Homepage & Navigation

- Dynamic **Navbar** and **Footer** components with category links.
- Responsive design tested on mobile and desktop.
- Footer includes social media and category sections (updated per `FOOTER_CATEGORIES_UPDATE.md`).

### 3. Routing & Layout

- React Router integrated for smooth page navigation.
- Folder structure supports future expansion (e.g., `/pages`, `/components`, `/layouts`).

#### 4. Styling Setup

- Fully configured **TailwindCSS** with `postcss.config.js` and `tailwind.config.js`.
- Global styles defined for buttons, forms, and headings.
- Theme supports light/dark adaptability.

#### 5. Bug Fixes & Performance

- Issues fixed per `BUGFIXES_SUMMARY.md`:
  - Footer overlapping resolved.
  - Layout alignment bugs fixed.
  - Responsive margins and padding improved.
- Performance and lint fixes documented in `COMPLETION_SUMMARY.md`.

#### Frontend Weekly Breakdown:

Week	Timeline	Tasks Completed
Week 1	15 – 21 Sept	Project setup, initialized React app, added Tailwind CSS, set up basic folder structure ( <code>src/components</code> , <code>src/pages</code> ).
Week 2	22 – 28 Sept	Created authentication UI (Login, Signup), responsive Navbar & Footer.

<b>Week 3</b>	29 Sept – 5 Oct	Integrated routing between pages (Home, Login, Signup, Dashboard placeholder). Fixed alignment bugs.
<b>Week 4</b>	6 – 12 Oct	Enhanced responsiveness, added color palette & reusable components, performed minor bug fixes, documentation updates ( <a href="#">COMPLETION_SUMMARY.md</a> ).

## Remaining Tasks & Future Work:-

### Pages Yet to Be Developed:

Page	Description
<b>About Page</b>	To display platform purpose, mission, and contact details.
<b>Create Event Page</b>	Form for event organizers to create and manage events.
<b>Book Events Page</b>	User-facing page for viewing and booking available events.
<b>Payment Page</b>	Secure checkout interface with payment gateway integration.
<b>User Dashboard</b>	To show user's created/booked events and account settings.

### Planned Enhancements:

- API Integration with backend endpoints (once ready).
- Form Validation and input sanitization.
- Dynamic Data Rendering for events fetched from backend.
- Responsive Animations for smoother user experience.


## Frontend Screenshots :-

### Verify Email OTP page:

Sign in to continue to EventHub

Login Sign Up

Registration successful! Please check your email for the OTP.



**Verify Your Email**

We've sent a 6-digit verification code to **yashvishah1292@gmail.com**

Enter Verification Code

000000


**Verify Email**

Didn't receive the code?  
[Resend OTP](#)

[← Back to registration](#)

Already have an account? [Sign In](#)

# Sign Up Page:

 **EventHub**

**Welcome Back**  
Sign in to continue to EventHub

Login

Sign Up

First Name

Last Name

John

Doe

Email

your@email.com

Phone (Optional)

+1 (555) 123-4567

Role

Attendee


Password

Enter your password

Confirm Password



## Login Page:

 **EventHub**

**Welcome Back**  
Sign in to continue to EventHub

Login

Sign Up

Email

your@email.com

Password

Enter your password

☐ Remember me

Forgot password?

Sign In

Don't have an account? [Create Account](#)

# Organiser Dashboard:

EventHub

[Home](#)[Events](#)[Categories](#)[Create Event](#)[About](#)

Yashvi Shah

Logout

Discover Amazing Events

Find and book tickets to the best events happening around you

Explore Events

Create Event

Browse by Category

Find events that match your interests

Featured Events

Don't miss out on these popular events

View All Events

conference\$500

Tech Conference 2025

A one-day event exploring the latest trends in AI, Web3, and Cloud Computing.

November 20, 2025

3:30 PM - 11:30 PM

Mumbai

2 attending

View Details

conference\$500

Tech Conference 2025

A one-day event exploring the latest trends in AI, Web3, and Cloud Computing.

November 20, 2025

3:30 PM - 11:30 PM

Mumbai

1 attending

View Details

conference\$500

Tech Conference 2025

A one-day event exploring the latest trends in AI, Web3, and Cloud Computing.

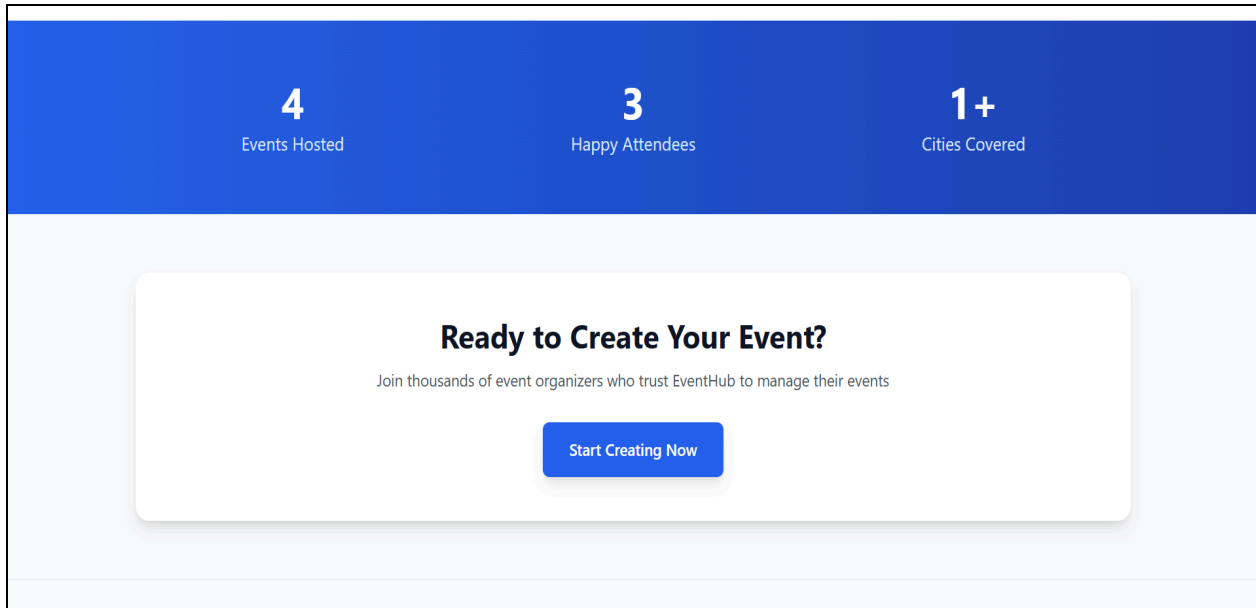
November 20, 2025

3:30 PM - 11:30 PM

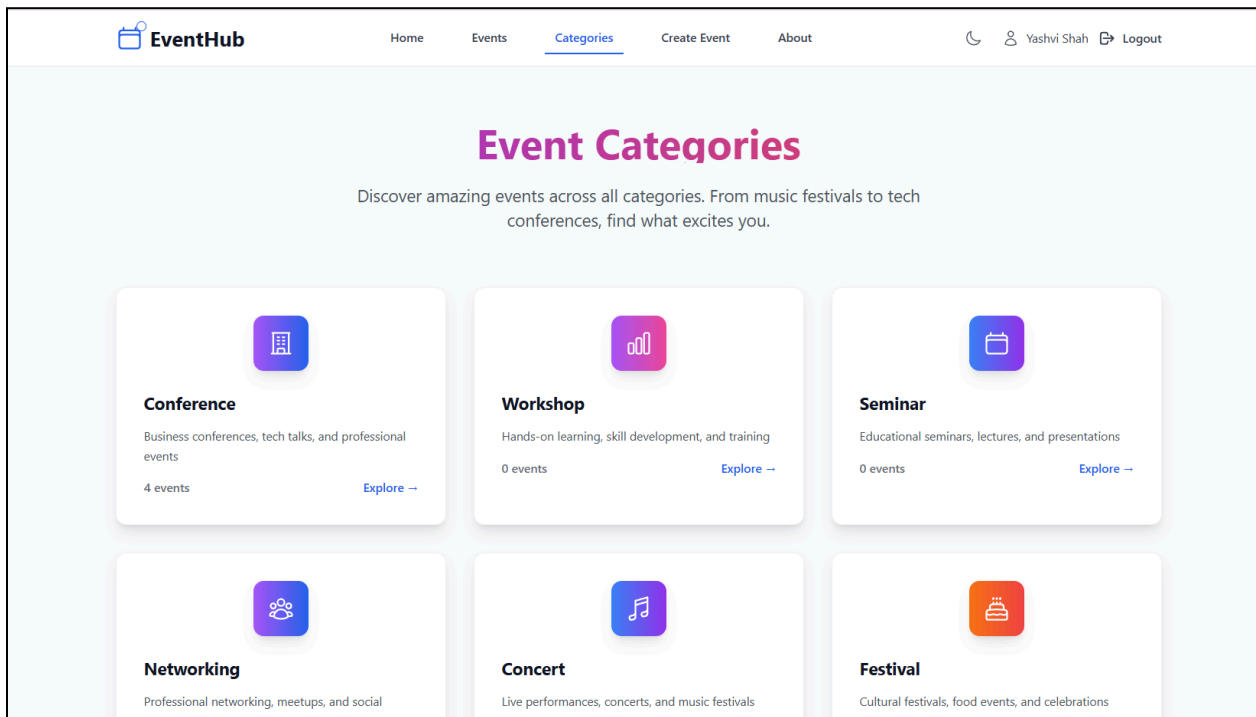
Mumbai

0 attending

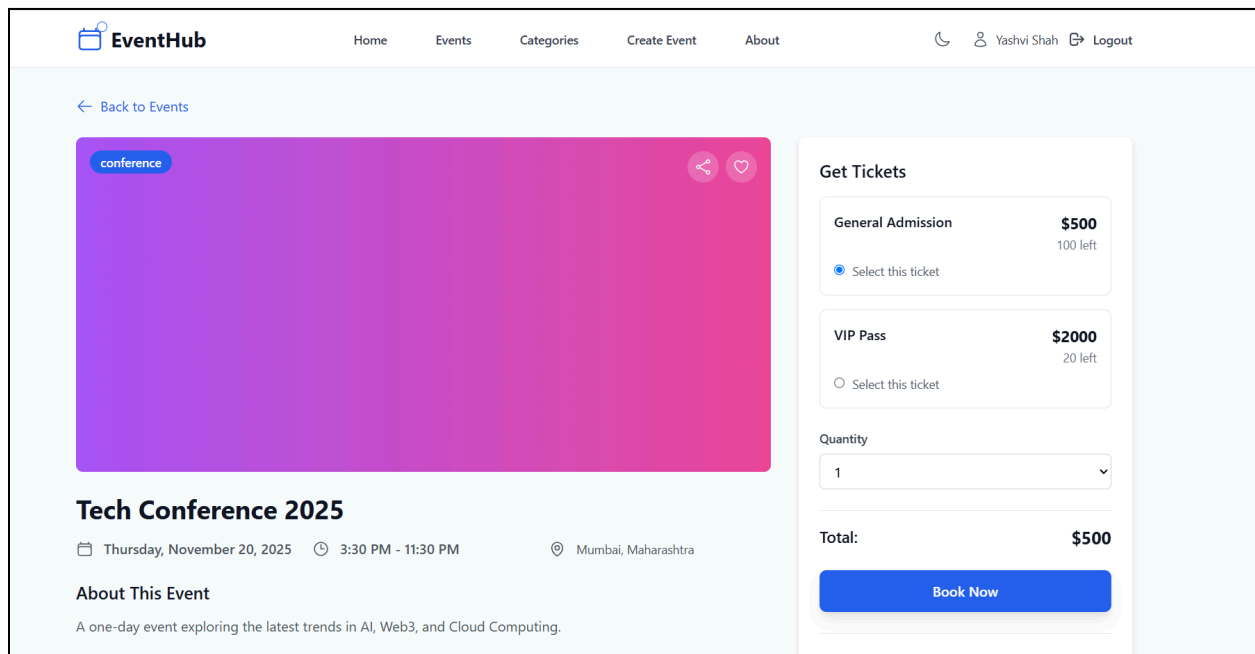
View Details



## Event Categories page:



## Event Details page:



## Backend Architecture:-

### Content:

- **Framework:** Node.js with Express
- **Database:** MongoDB using Mongoose
- **Architecture:** MVC (Model-View-Controller)
- **Authentication:** JWT (JSON Web Token) or Sessions
- **API Communication:** REST APIs between frontend and backend

## Database Models (Mongoose Schemas)

### Content:

#### user.js

- Stores user details (name, email, password, role)
- Passwords are hashed before saving

- Handles user authentication

## **event.js**

- Stores event title, date, location, and organizer info
- Linked with booking and review collections

## **booking.js**

- Tracks which users booked which events
- Contains booking time

### **Event Hub Backend Weekly Breakdown:**

#### **Week 1: 15 Sept – 21 Sept**

##### **Goal: Backend Setup & Project Foundation**

###### **Tasks:**

- Initialize Node.js project and configure Express.js
- Set up MongoDB connection using Mongoose
- Create project folder structure following MVC architecture
- Implement basic server setup and test routes (/api/test)
- Configure environment variables (.env for DB URI, JWT secret)
- Set up GitHub repository and version control

#### **Week 2: 22 Sept – 28 Sept**

##### **Goal: Implement Core Database Models (Schemas)**

###### **Tasks:**

- Design and implement **user.js** model
  - Fields: name, email, password (hashed), role
  - Add password hashing middleware using bcrypt
- Create **event.js** model
  - Fields: title, description, date, location, organizer
  - Establish relationship with bookings and reviews
- Build **booking.js** model
  - Fields: user ID, event ID, booking date/time
  - Ensure references to user and event collections

- Create initial sample data and test CRUD operations

## Week 3: 29 Sept – 5 Oct

### Goal: Core Functionalities (Authentication + CRUD APIs)

#### Tasks:

- Implement **JWT-based authentication** (login/signup)
  - Signup: register new users
  - Login: generate JWT tokens
  - Middleware: verifyToken for protected routes
- Build **RESTful APIs** for:
  - User management (GET, POST, PUT, DELETE)
  - Event management (create, update, delete, view)
- Integrate error handling and response formatting
- Postman API testing for all routes

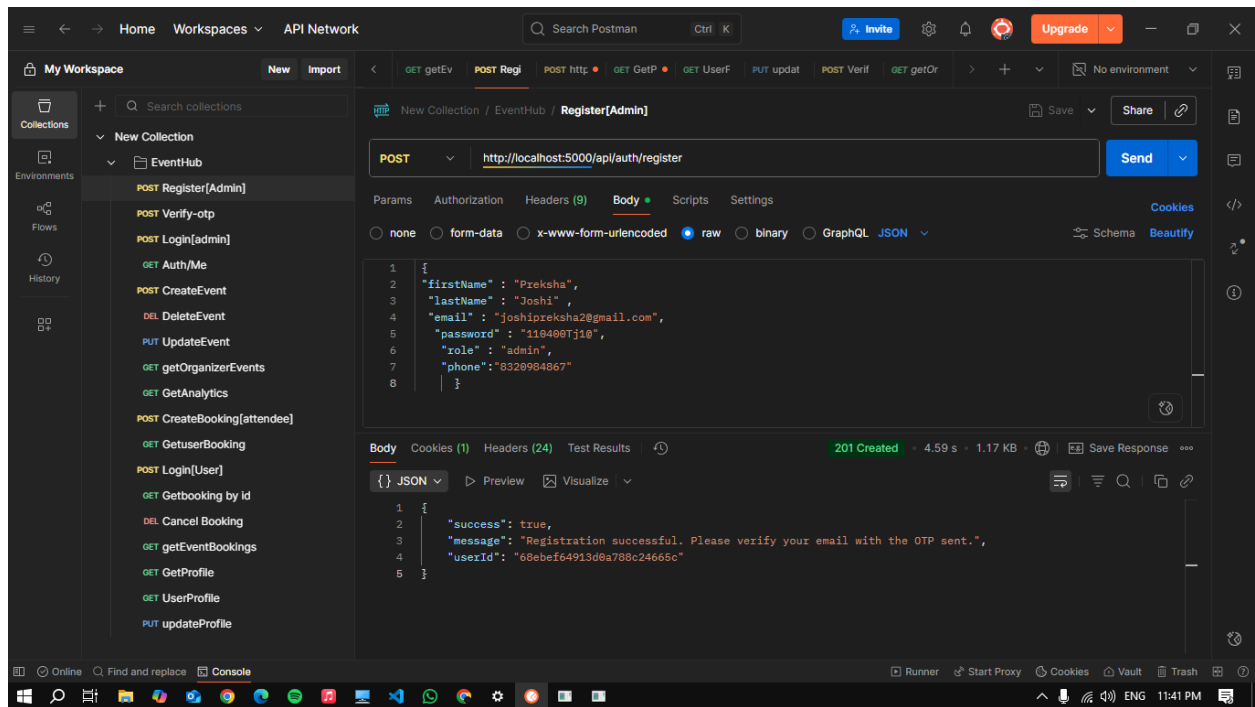
## Remaining Tasks & Future Work

#### Content:

- **Payment Integration:**  
Implement a secure payment gateway (Razorpay ) for event ticket purchases and confirmations.
- **Profile Update Module:**  
Allow users to update personal information, profile pictures, and preferences.
- **Queueing System:**  
Use a message queue ( Redis ) to manage simultaneous bookings and prevent double registration.
- **Enhanced Review System:**  
Add features like edit/delete reviews and average event rating calculation.
- **Notification Module:**  
Send real-time or scheduled notifications (in-app) for upcoming events, booking confirmations, and updates.

# Backend Screenshots:

## Register



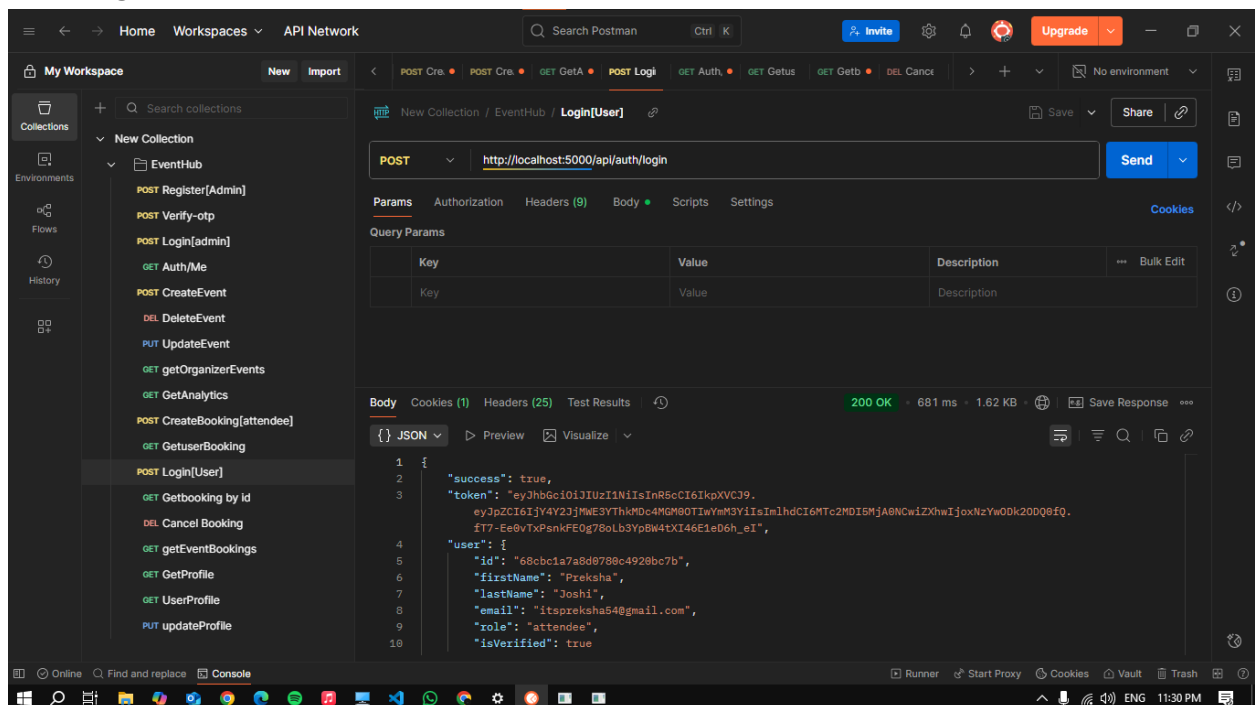
The screenshot shows the Postman interface for the 'Register[Admin]' endpoint. The URL is `http://localhost:5000/api/auth/register`. The request is a POST with a raw body containing the following JSON:

```
1 {
2   "firstName": "Preksha",
3   "lastName": "Joshi",
4   "email": "joshipreksha2@gmail.com",
5   "password": "11@408Tj10",
6   "role": "admin",
7   "phone": "8320904867"
8 }
```

The response is a 201 Created status with the following JSON:

```
1 {
2   "success": true,
3   "message": "Registration successful. Please verify your email with the OTP sent.",
4   "userId": "60ebef64913d0a788c24665c"
5 }
```

## User Login



The screenshot shows the Postman interface for the 'Login[User]' endpoint. The URL is `http://localhost:5000/api/auth/login`. The request is a POST with a raw body containing the following JSON:

```
1 {
2   "email": "joshipreksha2@gmail.com",
3   "password": "11@408Tj10"
4 }
```

The response is a 200 OK status with the following JSON:

```
1 {
2   "success": true,
3   "token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpZiI6IjY4YzV3IiwiaWF0IjoxNjU0ODk0ODk0fQ.fT7-E60vTxPsnkFE0g78oLb3YpBW4tXI46E1eD6h_eI",
4   "user": {
5     "id": "60ebef64913d0a788c24665c",
6     "firstName": "Preksha",
7     "lastName": "Joshi",
8     "email": "itspreksha54@gmail.com",
9     "role": "attendee",
10    "isVerified": true
11  }
12 }
```

## Verify-otp

The screenshot shows the Postman application interface. On the left, the 'My Workspace' sidebar lists a collection named 'EventHub' containing several API endpoints. The 'Verify-otp' endpoint is selected. The main panel displays the details of a POST request to 'http://localhost:5000/api/auth/verify-otp'. The request body is a JSON object: 

```
{  "email": "joshipreksha2@gmail.com",  "otp": "524953"}
```

. The response is a 200 OK status with a response time of 644 ms and a body of: 

```
{  "success": true,  "message": "Email verified successfully"}
```

. The status bar at the bottom indicates the system is online and shows the time as 11:44 PM.

## Admin login

The screenshot shows the Postman application interface. On the left, the 'My Workspace' sidebar lists a collection named 'EventHub' containing several API endpoints. The 'Login[admin]' endpoint is selected. The main panel displays the details of a POST request to 'http://localhost:5000/api/auth/login'. The request body is a JSON object: 

```
{  "email": "joshipreksha2@gmail.com",  "password": "110400Tj10"}
```

. The response is a 200 OK status with a response time of 962 ms and a body of: 

```
{  "success": true,  "token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpZi61jY4Y23jNjB1YThtkMdc4MG80TiwvM4ZS1sImhhdCI6MTc2MDI5MTU5NiwiZXhwIjoxNzYwODk2MzI6IjF0. RCS-CqcJSoK6_lfn6au1djtWfCrQLI4iWwEgJ8fymA",  "user": {    "id": "68cbc68ea8d9788c4928bc8e",    "firstName": "Preksha",    "lastName": "Joshi",    "email": "joshipreksha2@gmail.com",    "role": "admin",    "isVerified": true  }}
```

. The status bar at the bottom indicates the system is online and shows the time as 11:44 PM.



## Create Event

The screenshot shows the Postman application interface. On the left, the 'My Workspace' sidebar lists a collection named 'EventHub' with various API endpoints. The 'POST CreateEvent' endpoint is selected. The main panel displays the request configuration for a POST request to 'http://localhost:5000/api/events/'. The 'Headers' tab is active, showing an 'Authorization' header with a Bearer token. The 'Body' tab shows a JSON payload for creating an event.

**Request Configuration:**

- Method: POST
- URL: http://localhost:5000/api/events/
- Headers (10):

Key	Value	Description
Authorization	Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ...	

**Response (201 Created):**

```
1 {
2   "success": true,
3   "event": {
4     "title": "Tech Conference 2025",
5     "description": "A one-day event exploring the latest trends in AI, Web3, and Cloud Computing.",
6     "category": "conference",
7     "tags": [],
8     "organizer": {
9       "id": "68cbc69ea8d0780c4928bc8e",
10      "firstName": "Preksha",
11      "lastName": "Joshi"
12    }
13  }
14 }
```

## Create Booking

The screenshot shows the Postman application interface. On the left, the 'My Workspace' sidebar lists a collection named 'EventHub' with various API endpoints. The 'POST CreateBooking[attendee]' endpoint is selected. The main panel displays the request configuration for a POST request to 'http://localhost:5000/api/bookings'. The 'Headers' tab is active, showing an 'Authorization' header with a Bearer token. The 'Body' tab shows a JSON payload for creating a booking.

**Request Configuration:**

- Method: POST
- URL: http://localhost:5000/api/bookings
- Headers (10):

Key	Value	Description
Authorization	Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ...	

**Response (201 Created):**

```
1 {
2   "success": true,
3   "booking": {
4     "bookingNumber": "BKMGO9IAZV4552",
5     "user": {
6       "id": "68cbc1a7a8d0780c4928bc7b",
7       "firstName": "Preksha",
8       "lastName": "Joshi",
9       "email": "itspreksha54@gmail.com"
10    },
11    "event": {
12      "venue": {
13        "id": "68cbc1a7a8d0780c4928bc7b",
14        "name": "Tech Conference 2025",
15        "description": "A one-day event exploring the latest trends in AI, Web3, and Cloud Computing.",
16        "category": "conference",
17        "tags": [],
18        "organizer": {
19          "id": "68cbc69ea8d0780c4928bc8e",
20          "firstName": "Preksha",
21          "lastName": "Joshi"
22        }
23      }
24    }
25  }
26 }
```