

# An Event Management made with PHP Laravel

## Running the project:

- Open terminal in the folder where you want to fetch the project file
- Use the command “git clone [https://github.com/Nick6936/Event\\_management.git](https://github.com/Nick6936/Event_management.git)”
- Open your IDE(my choice is VS Code) and in the terminal use the command “composer install”
- After composer installs the required file, create a new file with name “.env”
- Copy all the contents from “.env.example” file paste it into the newly created “.env” file
- Save the env file and use the command “php artisan key:generate”
- Enable Apache and MySQL from Xaamp and use the command “php artisan migrate”
- After creating the database, use your preferred seeding command line or “php artisan migrate:fresh --seed”(two hyphens – for passing flag)
- The Database will now have few data seeded into it including the Authentication credentials
- Use the command “php artisan serve” to initiate the project and follow the URL to open the project’s view file.
- Credentials are also provided on the homepage for easy accessibility
- For API’s, “Event Management.postman\_collection.json” file is also included in the project Repo which can be imported to Postman for easy accessibility.

## About the project:

- The Authentication is performed with Laravel’s Auth class which creates session
- View file uses bootstrap components
- Homepage fetches all the data for Event, Category and Attendee
- Use Navigation bar to navigate to respective pages to execute CRUD operation
- Use of Eloquent ORM
- It uses relationship like hasMany(Model::class) and belongsTo(Model::class) to reference one to many relationship
- API calls are performed using Axios, which is a promise-based HTTP client
- CRUD operation is primarily performed using apiResource controller

## Architecture:

The application follows the MVC (Model-View-Controller) architecture provided by Laravel. Key components include:

- **Models:**
  - Event: Represents events in the system.
  - Attendee: Represents attendees for each event.
  - Category: Represents event categories.
- **Controllers:**
  - EventController: Handles event-related CRUD operations.
  - AttendeeController: Manages attendee-related operations.
  - CategoryController: Manages categories for events.
- **Views:** HTML files using Bootstrap, PHP and Javascript for the frontend UI.

## API Endpoints:

The application exposes several RESTful API endpoints for managing events, attendees, and categories.

### Events

- **GET /api/events:** Retrieve all events.
- **POST /api/events:** Create a new event.
- **GET /api/events/{id}:** Retrieve a specific event.
- **PUT /api/events/{id}:** Update a specific event.
- **DELETE /api/events/{id}:** Delete a specific event.

### Attendees

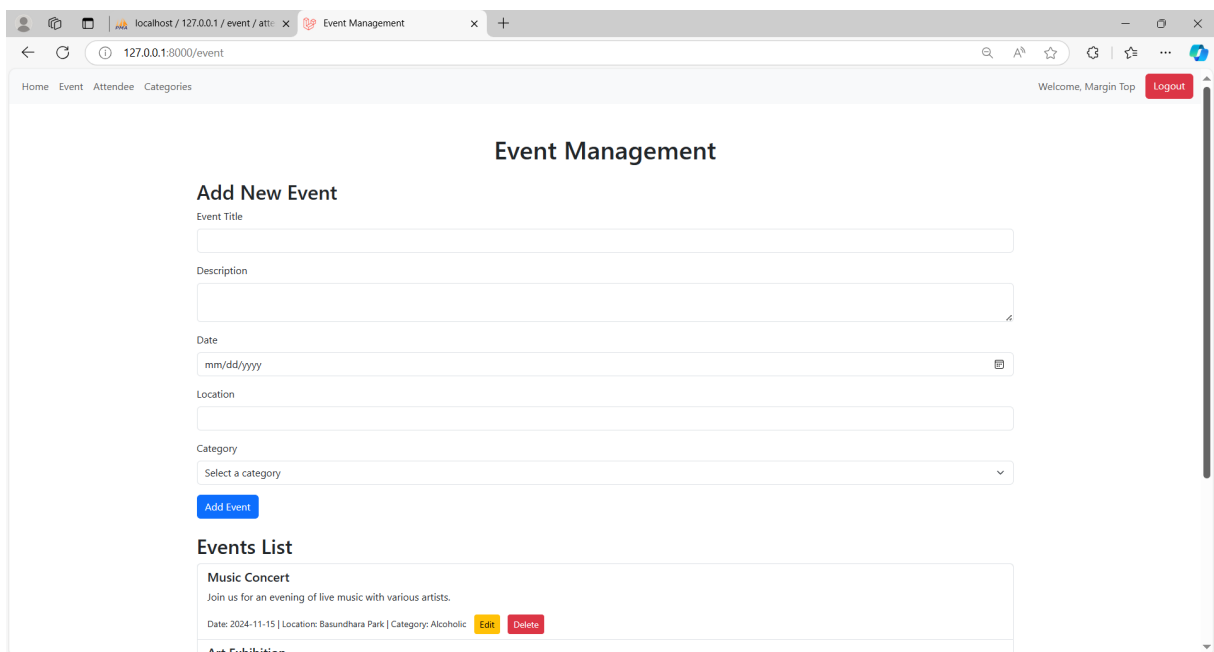
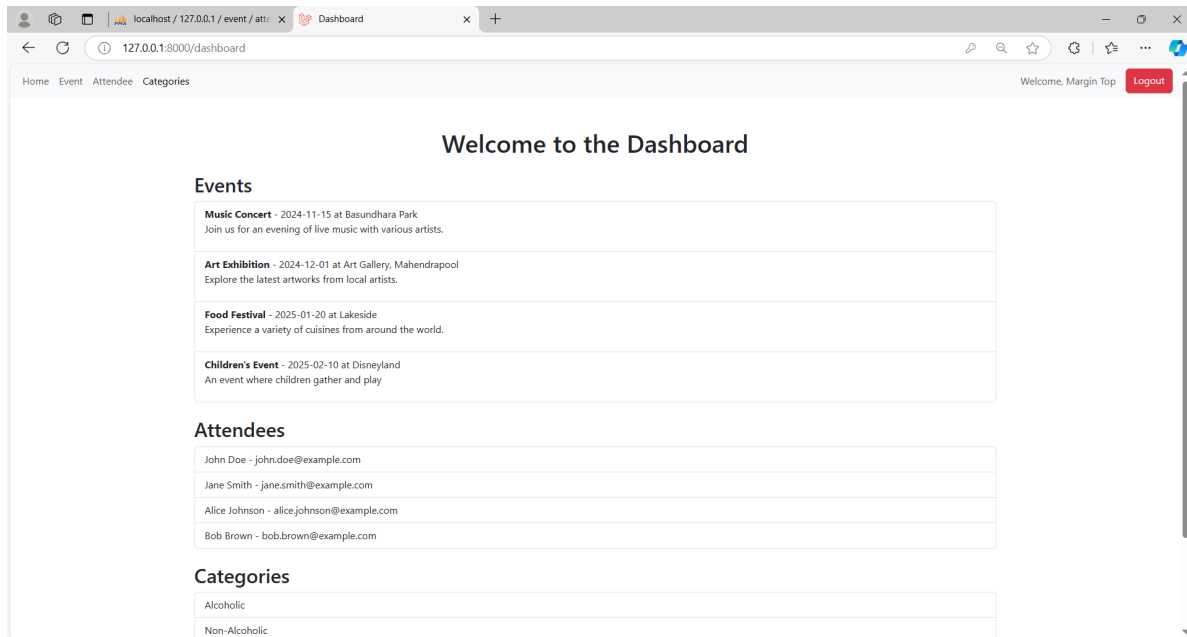
- **GET /api/attendees:** Retrieve all attendees.
- **POST /api/attendees:** Create a new attendee.
- **GET /api/attendees/{id}:** Retrieve a specific attendee.
- **PUT /api/attendees/{id}:** Update a specific attendee.
- **DELETE /api/attendees/{id}:** Delete a specific attendee.

### Categories

- **GET /api/categories:** Retrieve all categories.
- **POST /api/categories:** Create a new category.
- **GET /api/categories/{id}:** Retrieve a specific category.

- **PUT /api/categories/{id}**: Update a specific category.
- **DELETE /api/categories/{id}**: Delete a specific category.

## Project Snapshots:



localhost / 127.0.0.1 / event / attendee

Attendee Management

127.0.0.1:8000/attendee

Home Event Attendee Categories

Welcome, Margin Top Logout

## Attendee Management

### Add New Attendee

Attendee Name

Email

Select Event

Select an event

Add Attendee

### Attendees List

<b>John Doe</b> Email: john.doe@example.com Event: Music Concert <div>Edit Delete</div>
<b>Jane Smith</b> Email: jane.smith@example.com Event: Art Exhibition <div>Edit Delete</div>
<b>Alice Johnson</b>

localhost / 127.0.0.1 / event / attendee

Category Management

127.0.0.1:8000/categories

Home Event Attendee Categories

Welcome, Margin Top Logout

## Category Management

### Add New Category

Category Name

Add Category

### Categories List

<b>Alcoholic</b> <div>Edit Delete</div>
<b>Non-Alcoholic</b> <div>Edit Delete</div>
<b>Soft Drinks</b> <div>Edit Delete</div>
<b>Juices</b> <div>Edit Delete</div>
<b>Water</b> <div>Edit Delete</div>