1337 Events Management System API

A backend API for managing events at 1337, including user authentication, event management, feedback system, and a gamified leaderboard.

Features

- User authentication and profile management
- Event creation and management
- Event attendance tracking
- Feedback system
- Gamified leaderboard with points and levels
- · Monthly rankings

Setup

1. Install dependencies:

```
npm install
```

2. Set up environment variables: Create a env file with the following variables:

```
MONGODB_URI=mongodb://localhost:27017/1337-events
JWT_SECRET=your-super-secret-jwt-key-replace-in-production
PORT=3001
NODE_ENV=development
```

3. Start the server:

```
# Development mode
npm run dev

# Production mode
npm start
```

API Endpoints

User Management

POST /api/users/register

Register a new user

```
"email": "user@example.com",
"password": "securepassword",
"nickname": "username"
}
```

POST /api/users/login

Login user

```
{
  "email": "user@example.com",
  "password": "securepassword"
}
```

GET /api/users/profile

Get user profile (requires authentication)

PATCH /api/users/profile

Update user profile (requires authentication)

```
{
   "nickname": "newUsername",
   "picture": "picture_url"
}
```

GET /api/users/stats

Get user statistics (requires authentication)

Event Management

POST /api/events

Create a new event (requires authentication)

```
"title": "Event Title",
  "description": "Event Description",
  "time": "2025-06-20T15:00:00Z",
  "expectedTime": 120
}
```

GET /api/events

List all events Query parameters:

- status: upcoming, ongoing, completed, cancelled
- upcoming: true/false

GET /api/events/:id

Get event details by ID

POST /api/events/:id/attend

Register for an event (requires authentication)

PATCH /api/events/:id/attendance

Mark attendance status (requires authentication)

```
{
   "userId": "user_id",
   "status": "attended"
}
```

POST /api/events/:id/feedback

Add feedback for an event (requires authentication)

```
{
   "rating": 5,
   "comment": "Great event!"
}
```

Leaderboard

GET /api/leaderboard

Get global leaderboard rankings

GET /api/leaderboard/monthly

Get monthly leaderboard rankings

GET /api/leaderboard/ranking

Get user's ranking details with nearby users (requires authentication)

Points System

Event Attendance: 10 pointsGiving Feedback: 5 pointsLevel Up: Every 50 points

Points contribute to wallet balance

Authentication

All protected endpoints require a JWT token in the Authorization header:

```
Authorization: Bearer your-token-here
```

Project Structure

Error Handling

The API returns appropriate HTTP status codes and error messages:

• 200: Success

• 201: Resource created

• 400: Bad request

• 401: Unauthorized

• 404: Not found

• 500: Server error

Development

```
# Run in development mode with hot reload
npm run dev

# Run tests
npm test
```

Security Features

- Password hashing using bcrypt
- JWT-based authentication
- Protected routes
- Input validation
- CORS enabled