

Event Locator

Overview

This **event locator** is built with Node.js and Express.js. It allows users to discover events based on location and preferences, supports internationalization, and implements notifications using a message queue.

Features

- **User Authentication:** Secure registration & login with JWT.
- **Event Management:** CRUD operations for events.
- **Category Filtering:** Users can filter events by category.
- **Internationalization (i18n):** Multi-language support.
- **Notification System:** Message queuing for event alerts.
- **Unit Testing:** Jest/Mocha tests for key functionalities.

Technologies Used

- **Backend:** Node.js, Express.js
- **Database:** PostgreSQL + PostGIS (for geospatial queries)
- **Authentication:** bcrypt, JWT, Passport.js
- **Internationalization:** i18next
- **Message Queue:** Redis Pub/Sub or RabbitMQ
- **Testing:** Jest/Mocha + Supertest

Setup Instructions

1. Clone the repository:

```
git clone https://github.com/yourrepo/event-locator.git
```

cd event-locator

2. Install dependencies:

```
npm install
```

3. Set up the **.env** file with required environment variables:

```
DATABASE_URL=your_postgres_url
```

```
JWT_SECRET=your_secret_key
```

4. Run database migrations:

```
npm run migrate
```

5. Start the server:

```
npm start
```

API Endpoints

Authentication

- **POST /api/auth/register** → Register a new user
- **POST /api/auth/login** → Login and get a JWT token

Events

- **POST /api/events** → Create an event
- **GET /api/events** → Get events (supports location filtering)
- **GET /api/events/:id** → Get event details
- **PUT /api/events/:id** → Update event
- **DELETE /api/events/:id** → Delete event

User Preferences

- `GET /api/users/preferences` → Get user preferences
- `POST /api/users/preferences` → Update user preferences

Testing

Run unit tests with:

`npm test`

Deployment

- Deploy using **Heroku**, **AWS**, or **DigitalOcean**
- Use **Docker** for containerized deployment

Contributors

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