Event Management API - Detailed Documentation

1. System Overview

The Event Management API is a modular Django REST Framework project allowing users to manage events, RSVPs, and reviews securely using JWT authentication.

System Architecture Diagram

Client (Frontend/API Caller)	Django REST API	Database

2. Workflow Diagram

User → Authenticate (JWT) → Access Event Endpoints → RSVP / Review → Stored in Database

3. Database Models

Model	Fields
UserProfile	full_name, bio, location, profile_picture
Event	title, description, organizer, location, start_time, end_time, is_public
RSVP	event, user, status
Review	event, user, rating, comment

4. API Endpoints Summary

Events: → GET /api/events/ → POST /api/events/ → GET /api/events// → PUT /api/events// → DELETE /api/events// RSVP: → POST /api/events//rsvp/ → PATCH /api/events//rsvp// Reviews: → POST /api/events//reviews/ → GET /api/events//reviews/

5. Event Creation Sequence

Client → POST /api/events/ → Django View → Serializer Validation → Save Event → Response Returned

6. Authentication Flow

1. User sends credentials to /api/token/. 2. Server returns access token and refresh token. 3. User includes Authorization: Bearer in all protected requests.

7. Pagination, Filtering, Search

Pagination: → ?page=2 Filtering: → ?location=Ahmedabad Search: → ?search=Music Ordering: → ?ordering=start_time

8. Unit Tests Included

✔ Event creation ✔ RSVP creation and update ✔ Review posting and duplicate prevention ✔ Anonymous event access