EVENT TRACKER

Author: EGNALIG, REIGN RISENHEIMER C.
Course: BSCpE – Software Design
Country: Philippines
Email: risenheimer2004@gmail.com

Abstract

This project is an **Event Tracker** built using Django. It helps manage events by allowing users to register, create events, and track participation. Admins can approve or reject event submissions. The system includes dashboards for both users and admins to monitor event statuses and user participation. It uses SQLite for the database and Bootstrap for the frontend.

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1. Introduction

Managing events manually can be time-consuming and error-prone. This system aims to automate the event management process, making it easier for both organizers and participants.

1.1 Problem Statement

Traditional event tracking involves paperwork and manual coordination, which can lead to inefficiencies and data loss. A digital platform is needed to streamline and centralize event information.

1.2 Objectives

- Allow users to register and submit events.
- Enable admins to manage event applications.
- Provide dashboards for tracking event details and participation.
- Ensure secure user authentication.

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2. System Architecture

2.1 Technology Stack

- **Backend:** Django (Python)
- **Frontend:** HTML
- **Version Control:** Git

2.2 Core Components

2.2.1 User Management

Users can register, log in, and manage their profiles. Authentication is handled using Django's built-in system.

2.2.2 Event Application Management

Users can submit events with required details. Admins can view, approve, or reject these submissions.

2.2.3 Participation Management

Approved events can be joined by other users. The system records participation history and attendance.

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3. Key Features

3.1 User Registration and Authentication

Secure user registration and login functionalities using Django's authentication system.

3.2 Event Submission Process

Users can fill out a form to submit an event. Admins are notified of new submissions and can approve or reject them.

3.3 Participation Tracking

The system maintains a log of users participating in events, showing active, upcoming, and past events.

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4. Implementation

4.1 Database Schema

The database includes tables for users, event submissions, and participation records. Relationships are handled using Django’s ORM.

4.2 Security Measures

- Password hashing for user credentials

- Input validation to prevent SQL injection
- Session management to protect user data

4.3 User Interface

The UI is built using Bootstrap to ensure responsiveness and a clean layout. Forms are used for user inputs, and tables display event status and history.

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5. Results and Discussion

5.1 Performance Metrics

The system efficiently handles CRUD operations. It performs well with minimal page load times and can support multiple concurrent users.

5.2 User Feedback

Users find the system intuitive and convenient for organizing and participating in events. Admins appreciate the efficient event approval workflow.

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6. Conclusion and Future Work

The **Event Tracker** system successfully digitizes the event management process, improving productivity and reducing manual workload. Future enhancements may include:

- Email notifications for event updates
- Calendar synchronization
- Integration with mapping tools for event locations
- Real-time chat for participants

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7. Acknowledgment

Special thanks to the open-source community and the developers of Django and Bootstrap for providing the tools and documentation that made this project possible. I also thank AI tools like ChatGPT, Deepseek, Grok, etc., which helped me understand programming concepts, debug issues, and contribute to the creation of this documentation.

Documentations

127.0.0.1:8000/login/

You have been logged out successfully.

Login

You have been logged out successfully.

Username

Password

Login

Don't have an account? Contact an administrator to create one.

127.0.0.1:8000

Event Tracker

Available Props admon (Borrower) Logout

Welcome back, admon!

Welcome, admon!

Browse and borrow available props for your events.

Available Props

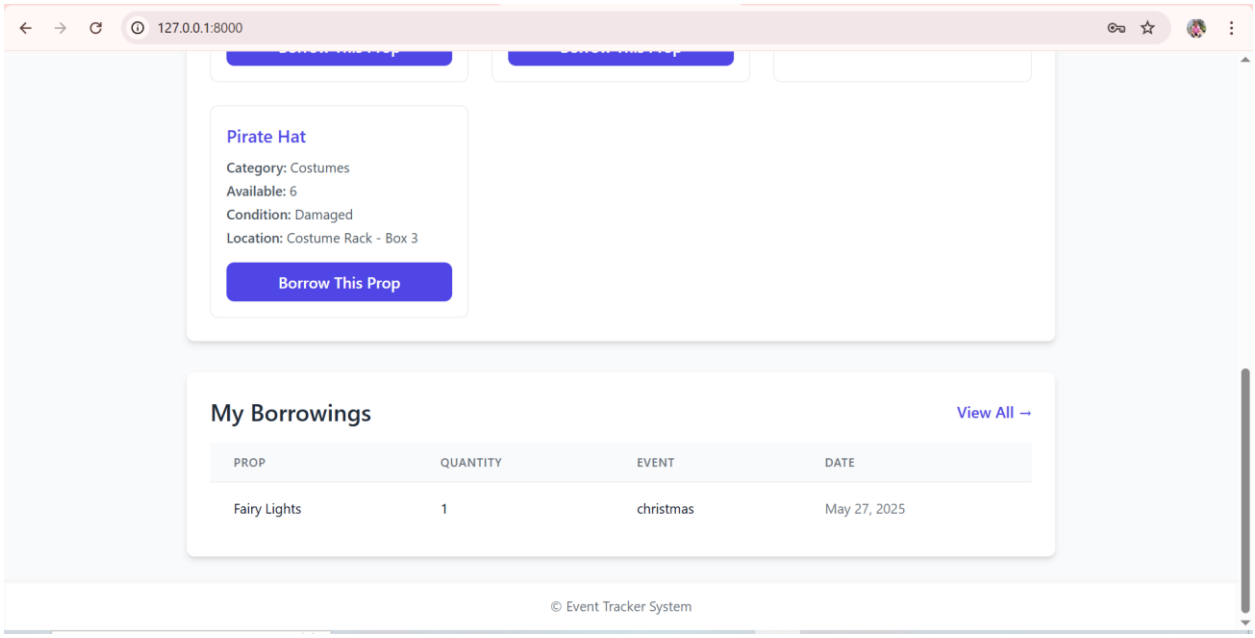
Fairy Lights

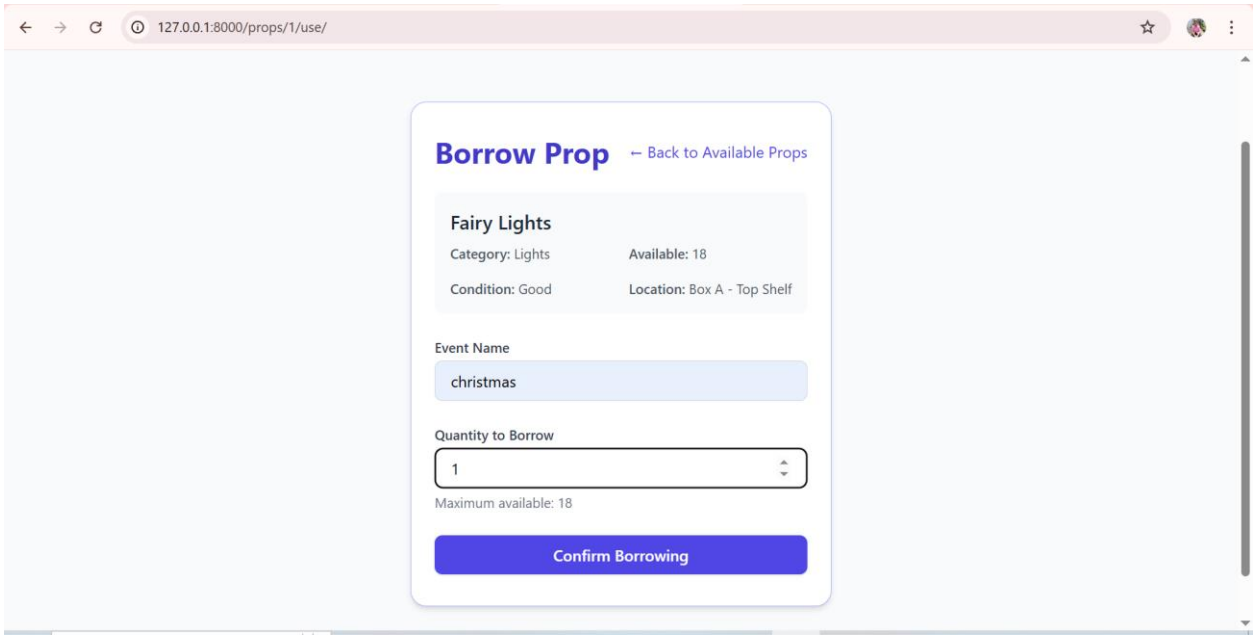
Center Table

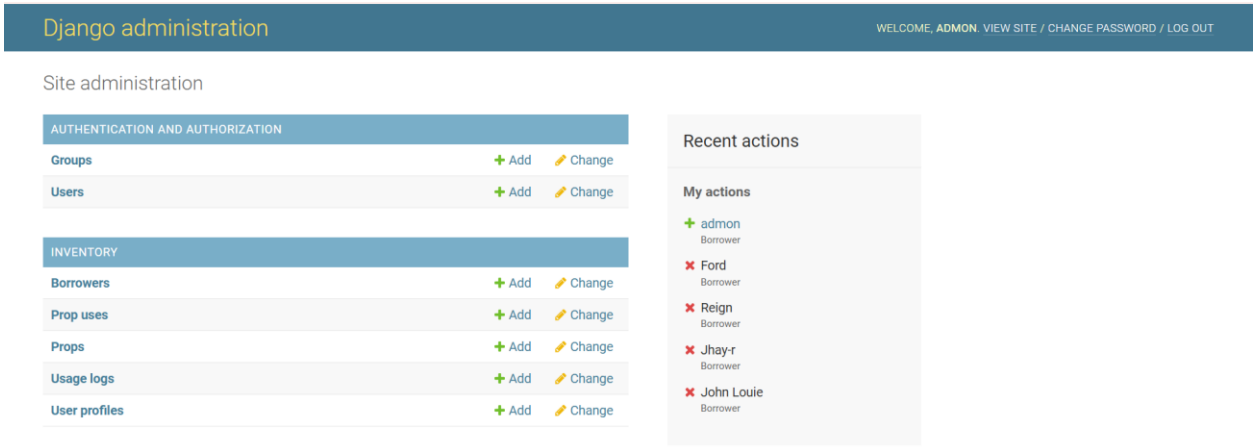
"Welcome" Banner

Category: Banners
Available: 5
Condition: Good
Location: Drawer 2 - Cabinet B

Borrow This Prop


127.0.0.1:8000
Pirate Hat
Category: Costumes
Available: 6
Condition: Damaged
Location: Costume Rack - Box 3
Borrow This Prop
My Borrowings
View All →
PROP
QUANTITY
EVENT
DATE
Fairy Lights
1
christmas
May 27, 2025
© Event Tracker System


127.0.0.1:8000/props/1/use/
Borrow Prop
← Back to Available Props
Fairy Lights
Category: Lights
Available: 18
Condition: Good
Location: Box A - Top Shelf
Event Name
christmas
Quantity to Borrow
1
Maximum available: 18
Confirm Borrowing


Django administration
WELCOME, ADMON. VIEW SITE / CHANGE PASSWORD / LOG OUT
Site administration
AUTHENTICATION AND AUTHORIZATION
Groups + Add Change
Users + Add Change
INVENTORY
Borrowers + Add Change
Prop uses + Add Change
Props + Add Change
Usage logs + Add Change
User profiles + Add Change
Recent actions
My actions
+ admon
Borrower
Ford
Borrower
Reign
Borrower
Jhay-r
Borrower
John Louie
Borrower