Event Management & RSVP System

1. Introduction

Managing events efficiently requires a streamlined RSVP system that allows users to register, receive email reminders, and check in seamlessly. This project aims to build a full-stack solution using Django, PostgreSQL, Bootstrap, Celery, and Redis.

2. Abstract

This system provides event organizers with a platform to create events, track RSVPs, and automate email reminders using Celery. Users can register for events through interactive forms, receive confirmation emails, and check in via QR codes. The dashboard enables organizers to filter and manage events effectively.

3. Tools Used

- Backend: Django (for application logic), PostgreSQL (for database management)
- Frontend: Bootstrap (for responsive UI design)
- Task Scheduling: Celery + Redis (for handling email reminders)

4. Steps Involved in Building the Project

- Model Creation:Define models for events, users, and invitations in Django.
- RSVP System:Develop forms for event registration and confirmation logic.

- Email Automation: Implement Celery and Redis to schedule RSVP confirmation emails and event reminders.
- Dashboard Development:Create an admin panel with event filters to manage RSVPs.
- QR Code Check-in (Bonus):Generate QR codes for attendees to scan upon arrival.

5. Conclusion

This Event Management & RSVP System enhances event organization by automating RSVP processes, reminders, and check-ins. With a robust backend, responsive frontend, and efficient task scheduling, it improves user experience and event efficiency.