

# EventEase: AI-Powered Event Registration System

**Project Type:** B2C Salesforce CRM Implementation

**Industry:** Event Management / Education / Corporate Training

## ❖ Use Cases:

1. Event Management: Maintain a central database of events with details like date, venue, and capacity.
2. Attendee Registration: Capture registrations online or on-site; automated email confirmations.
3. AI-Powered Recommendations: Suggest relevant events to attendees based on their interests and past participation.
4. Reporting & Analytics: Dashboards for organizers to track attendance trends, popular events, and revenue.

## ❖ Phase 1

### 1. Executive Summary

Phase 1 validates the business need for EventEase and captures all information required for MVP development. Key outcomes include:

- Functional and non-functional requirements
- Stakeholder analysis
- Business process mapping

- Salesforce data model blueprint
  - Security and compliance guidelines
  - AppExchange evaluation
  - Reporting and KPI framework
  - AI MVP strategy
  - Phase 2 decision log for sign-off
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## 2. Objectives and Scope

### Primary Objective:

Centralize event registration, automate confirmations and reminders, provide efficient check-in, and generate actionable dashboards and AI-driven recommendations.

### Scope for Phase 1:

- Requirement gathering and functional analysis
- Stakeholder analysis and RACI assignment
- As-Is and To-Be process mapping
- Data model and object relationships
- Security and sharing blueprint
- AppExchange research and recommendations
- Reporting & KPI planning
- AI MVP design
- Decision log for Phase 2 build

### Out of Scope:

- Full Salesforce implementation of objects, flows, and LWCs
- Payment integration (deferred to Phase 2)

## 3. Requirements Gathering

### Functional Requirements

- Online registration capturing Registration\_\_c records linked to Event\_\_c
- Instant confirmation email with ICS calendar attachment
- SMS reminders (T-7, T-1, T-0) for opted-in attendees
- QR code generation per registration for check-in
- Kiosk scanner (LWC) for event day check-in
- Waitlist management and capacity enforcement
- Admin dashboards for attendance, revenue, and funnel metrics
- Nightly rules-based recommendation engine

### Non-Functional Requirements

- Registration response < 2 seconds
- Real-time dashboards for organizers and admins
- Security: FLS, audit trails, OWD principles
- Scalable for large events
- Maintainable metadata-driven design
- Compliance: consent capture, retention, GDPR/PII rules

### Key Performance Indicators

- Registration completion rate  $\geq 85\%$
- Registration  $\rightarrow$  confirmation time < 1 minute
- Recommendation CTR  $\geq 5\%$
- No-show reduction target 10% after reminders

## 4. Stakeholder Analysis

## Personas

1. **Event Organizer:** Easy registration intake, attendee lists, automated confirmations, and daily digests.
2. **Administrator:** Dashboards for attendance, revenue, refunds, and compliance.
3. **Attendee:** Simple registration, confirmation with QR code, reminders via email/SMS.

## RACI Overview

Activity	Responsible	Accountable	Consulted	Informed
Requirements gathering	BA	PO	Organizers, Admins	Sponsor
App evaluation	Tech Lead	PO	Security, Finance	Sponsor
Phase 2 implementation	Dev Team	Tech Lead	Organizers, Admins	Sponsor

## 5. Business Process Mapping

### Current-State (As-Is)

- Registrations via Google Forms or third-party tools
- Manual export of attendee lists
- Manual confirmation emails
- On-site manual check-ins
- Reporting via Excel with delays and errors

### ❖ Target-State (To-Be)

1. Registration via web form → Registration\_\_c creation

2. Payment capture (deferred MVP)
3. Instant confirmation email + QR code + ICS attachment
4. Automated reminders (T-7, T-1, T-0)
5. Event day: kiosk LWC scans QR → updates Checked\_In\_\_c
6. Post-event follow-up emails and AI recommendation scoring

## Exception Handling

- Duplicate registrations → validation rule
- Capacity exceeded → waitlist entry
- Payment failure → pending status and notification

## 6. Data Model

### ➤ Core Objects

- **Event\_\_c**: Name, Start/End DateTime, Timezone, Venue lookup, Capacity, Status, Topics, Price
- **Registration\_\_c**: Attendee lookup/email, Event lookup, Status, Ticket Type, Payment Reference, QR code, Checked-In, Opt-in flags
- **Session\_\_c (optional)**: Event lookup, Start/End, Speaker, Capacity
- **Venue\_\_c**: Name, Address, City, State, Country, Timezone, Capacity
- **Recommendation\_\_c**: Attendee lookup, Event lookup, Score, Reason, Generated On

### Relationships

- Event → Registration (1:M)

- Event → Session (1:M)
- Venue → Event (1:M)
- Contact → Registration (1:M)

## 7. Security and Sharing

- **OWD Recommendations:**
  - Event\_\_c → Public Read-Only
  - Registration\_\_c → Private
  - Session\_\_c / Venue\_\_c → Controlled by Parent
- **Profiles & Permission Sets:**
  - Administrator: Full access
  - Organizer: CRUD on Event\_\_c, read Registration\_\_c
  - Kiosk: Limited check-in permissions
  - Guest: Create Registration\_\_c only
- **Field-Level Security:** Hide PII for unauthorized roles
- **Sharing Rules:** Share Registrations with Event Owner
- **Audit & Logging:** Track changes on Registration\_Status, Checked\_In, Payment\_Ref
- **Consent & Retention:** Opt-in flags, retention policies, anonymization

## 8. Automations (Skeleton)

- Registration Orchestration Flow
- Reminder Flow
- Waitlist Promotion Flow
- Email/SMS templates with ICS attachment
- Nightly rules-based Recommendation job

## 9. Check-in & QR LWC

- Tokenized QR code stored in Registration\_\_c
- Kiosk scanner LWC reads QR → validates → updates Registration\_\_c
- Offline support deferred to Phase 2

## 10. AI MVP Strategy

- Rule-based scoring for top-N event recommendations
- Features: Topic overlap, popularity, recency, proximity, personal history
- Output: Recommendation\_\_c records with score and reason
- Phase 2 Einstein ML integration planned

## 11. Reporting & Dashboards

- Reports: Attendance, registration funnel, revenue, waitlist/capacity
- Dashboards: Event overview, top events, registration funnel, check-in tracking
- Historical snapshots considered for Phase 2

## 12. AppExchange Evaluation

- SMS: Twilio for MVP
- Payments: Deferred; Stripe preferred if needed later

- Check-in: Build QR/LWC in-house
- Documents: Salesforce Files; external integrations optional

## 13. Risks & Mitigation

- Bot registration: CAPTCHA + rate limiting
- Payment failures: deferred
- Data privacy: FLS, OWD, audit logs
- Kiosk offline: Phase 2 support
- Scope creep: enforce sign-off

## 14. Proof of Concept (PoC) Plan

- Objective: Validate QR generation, confirmation email, recommendation job
- Scratch org: Minimal Event\_\_c and Registration\_\_c implementation
- Acceptance: QR scan updates check-in, email delivered, recommendations generated

## 15. Phase 1 Sign-off Decision Log



Decision Area	Options	Recommended Default
Payments in MVP	Include / Defer	Defer
Payment Provider	Stripe / Chargent	Stripe if needed later
SMS Provider	Twilio / Digital Engagement	Twilio
Check-in Approach	Build QR LWC / AppExchange	Build QR LWC
Experience Cloud Portal	Include / Defer	Defer
Event__c OWD	Public Read-Write / Read-Only	Read-Only
Timezone	Prioritize locales	Primary market (e.g., IST)
Multi-currency	Yes / No	Single currency

## 16. Acceptance Checklist

- Requirements, stakeholders, processes, data model, AppExchange evaluation completed
- Decision log filled & signed
- PoC plan approved
- Phase 2 scaffold prepared