■ SOFTWARE REQUIREMENTS SPECIFICATION (SRS)

System Name: Tera Invitation System

Version: 1.0

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1. INTRODUCTION

1.1 Purpose

This document outlines the functional and technical requirements of the **Tera Invitation System**, an event invitation automation platform fully managed by the administrator. The platform streamlines invitation processing—from client registration and guest list management to invitation generation and attendance tracking. Clients interact only to:

- Submit event handling payment,
- Approve invitation templates,
- Access invitation and attendance reports.

1.2 Intended Audience

- Admin (System Manager): Has full control over the invitation system.
- Client (Event Owner): Pays the event fee, confirms templates, and views reports.
- **Guest/Invitee:** Receives the invitation, confirms attendance, and attends using a QR code or code.

2. SYSTEM OVERVIEW

2.1 System Summary

- The entire process is centrally managed by the **Admin**.
- Clients do not interact with the backend directly.
- Admin receives the event request and guest list (via Excel) from the client.
- System processes the uploaded guest list by:
 - o Generating unique QR codes,
 - o Binding the QR codes into the selected invitation card template (PDF),
 - o Sending personalized invitations via email/SMS.

- Guest confirmation and event attendance are tracked automatically.
- System generates final reports on attendance and delivery status.

2.2 User Roles and Permissions

Role Permissions

Admin Register/manage clients, upload templates, process guest lists, generate QR codes, send invitations, handle payments, track attendance, generate reports

Client Submit payments, confirm invitation templates, view status reports

Invitee Receive and confirm invitation, attend event via QR/name/code

3. FUNCTIONAL REQUIREMENTS

3.1 Admin Features

- [√] Register and manage clients.
- $\lceil \sqrt{\rceil}$ Upload event invitation templates (PDF).
- [✓] Receive guest list in Excel (Single, Couple, Group types).
- [✓] Upload and process guest list:
 - Validate records.
 - o Generate unique QR codes.
 - o Automatically bind codes into uploaded template.
- [✓] Send personalized invitations (via Email/SMS).
- $\lceil \sqrt{\rceil}$ Manually or automatically confirm client payments.
- [✓] Handle RSVP tracking.
- [✓] Confirm attendance through:
 - o QR scanning,
 - Manual code or name input.
- [✓] Generate and export detailed reports:
 - o Invitations sent,
 - o RSVP responses,
 - Final attendance.

3.2 Client Features

- [✓] Submit payment for event service.
- $[\ \ \]$ Preview and confirm invitation template (PDF).
- [√] Access:
 - o Invitation delivery reports,
 - o RSVP status,
 - o Final attendance reports.

3.3 Invitee Features

- [√] Receive invitation (Email/SMS).
- [√] Confirm RSVP (Accept/Decline).
- [✓] Attend event using:
 - o QR Code,
 - Unique Code,
 - o Name.

4. TEMPLATE BINDING & INVITATION AUTOMATION PROCESS

- After client registration and payment confirmation:
 - o Admin uploads a **PDF invitation template** selected by the client.
 - o Admin uploads the guest list in Excel format.
 - o System generates unique **QR codes** for each guest/group.
 - QR codes are automatically embedded into the uploaded PDF template for each guest.
 - o Personalized PDF invitations are sent to invite via Email and/or SMS.

5. MANDATORY NOTIFICATIONS & REMINDERS

The following features are core components and **not optional**:

- [✓] WhatsApp Delivery Integration Invitations and reminders delivered via WhatsApp.
- $[\checkmark]$ **Automatic Event Reminders** Notifications sent before the event.
- $[\ \ \]$ **No-Show Follow-Ups** Automated messages to guests who did not attend.

6. ATTENDANCE TRACKING

5.2 Invitation Types

Type DescriptionSingle 1 Guest, 1 QR Code

Couple 2 Guests, 1 QR Code shared

Type Description

Group Multiple Guests, 1 QR Code shared

5.3 Attendance Confirmation Options

- Scan QR code (auto-detect guest)
- Manual code entry (for verification)
- Name-based lookup (fallback option)

7. REPORT OUTPUTS

The system supports generating and exporting the following reports:

Report Type Description

Invitation Sent Report Shows all sent invitations and status

RSVP Status Report Tracks which guests confirmed/declined

Attendance Report Lists all attendees and absentees

Export Formats Supported: PDF, Excel (.xlsx), CSV

8. TECH STACK & DEVELOPMENT ENVIRONMENT

8.1 Technologies Used

Layer Technology

Frontend (Web) React.js (Admin and Client Portals)

Mobile App Flutter + Dart
Backend API Laravel 10
Database MySQL
DB Language SQL

UI Design HTML5, Tailwind CSS

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8.2 Tools & Environment

Tool/Device Purpose

Visual Studio Code Development IDE

Android Studio Flutter Emulator & Testing

Tool/Device Purpose

USB+ Android Phone Physical App Testing

Personal Computer Primary Development Machine

9. CONCLUSION

The **Tera Invitation System** is a full-featured event invitation automation platform, reducing client workload to just payment and approval. The administrator controls the end-to-end process—from guest list preparation and template binding to invitation delivery and attendance tracking. Built with a modern tech stack, it ensures scalability, notification robustness, and seamless delivery via email, SMS, and WhatsApp.