Software Requirements Specification (SRS)  
Multicultural NT Events Platform

# 1. Introduction

This document specifies the requirements for the Multicultural NT Events Platform, a web application designed to centralize accurate and up-to-date multicultural event information across the Northern Territory (NT). The platform will serve event organizers, attendees, administrators, and data analysts to promote community engagement and cultural inclusivity.

# 2. Business Requirements (BR)

* BR1: Provide a centralized platform for accurate, up-to-date multicultural event information in NT.
* BR2: Increase visibility of community and cultural events to locals, tourists, and students.
* BR3: Enable event organizers to submit and manage their events easily.
* BR4: Ensure community trust by reviewing and verifying events before publishing.
* BR5: Deliver analytics on event engagement, cultural diversity, and organizer participation to NT stakeholders.

# 3. Functional Requirements (FR)

## 3.1 Organizer Functions

* FR1: The system shall allow organizers to register and verify their identity.
* FR2: The system shall allow organizers to create, edit, and submit events.
* FR3: The system shall validate event details (date range, duplicates, required fields).
* FR4: The system shall notify organizers of approval/rejection via email.

## 3.2 Attendee Functions

* FR5: The system shall allow attendees to browse, search, and filter events by date, category, language, and region.
* FR6: The system shall display event details including description, location map, time (converted to attendee’s timezone).
* FR7: The system shall allow attendees to export events to their personal calendars (Google, Outlook, iCal).
* FR8: The system shall allow attendees to share events via social media or email.
* FR9: The system shall allow attendees to report incorrect or inappropriate events.

## 3.3 Admin Functions

* FR10: The system shall provide an admin dashboard for reviewing event submissions.
* FR11: The system shall allow admins to approve, reject, or flag events.
* FR12: The system shall allow admins to verify organizer profiles.
* FR13: The system shall log all admin actions for auditing.

## 3.4 Data & Analytics Functions

* FR14: The system shall capture engagement metrics (views, clicks, add-to-calendar, shares).
* FR15: The system shall generate dashboards for event coverage (by culture, region, category).
* FR16: The system shall generate reports on event quality (approval rates, issue reports).

# 4. Non-Functional Requirements (NFR)

* NFR1 – Performance: Event search results must load in < 300ms for cached queries, < 800ms for uncached.
* NFR2 – Availability: The platform must be available 99.5% of the time during business hours.
* NFR3 – Security: All user data must be stored securely (encrypted at rest and in transit). Role-based access must prevent unauthorized actions.
* NFR4 – Scalability: The system must support at least 10,000 monthly users and 5,000 events.
* NFR5 – Usability: The platform must follow WCAG 2.1 AA accessibility standards (keyboard navigation, screen reader friendly).
* NFR6 – Mobile-Friendly: The platform must be responsive and optimized for mobile users.
* NFR7 – Maintainability: Code must follow modular design with proper documentation for easy updates.
* NFR8 – Localization: The platform must support multiple languages (English + Indigenous languages in later phases).
* NFR9 – Privacy & Compliance: Must comply with Australian privacy laws; minimal PII collection (organizer contact only).
* NFR10 – Backup & Recovery: Daily backups must be taken; system must allow restoration in case of failure.