

Assignment 2: Requirements Gathering - Conduct a 30-minute mock interview to gather requirements for a fictional app that helps organize community events. Summarize the requirements and how you would document and trace them in a one-page brief.

Community Events Organizer App

Project Overview

The Community Events Organizer App is designed to empower communities by streamlining the planning, organization, and management of events. It fosters connections between members, provides comprehensive event information, and facilitates smooth communication between organizers and participants. The app caters to a diverse range of events, encompassing social gatherings, workshops, charity events, and more.

Requirements Summary

1. Functional Requirements

- **User Registration and Authentication:**
 - Users can register and log in seamlessly using email or social media accounts.
 - The app facilitates differentiated user roles: Admin, Organizer, and Participant, each with specific privileges.
- **Event Creation and Management:**
 - Organizers are empowered to create, update, and delete events with ease.
 - Event details encompass title, description, date, time, location, and category for clear communication.
- **Event Discovery:**
 - Users can efficiently search and filter events based on date, category, and location preferences.
 - The app personalizes event recommendations, leveraging user preferences for enhanced discovery.
- **RSVP and Ticketing:**
 - Users can effortlessly RSVP for free events or utilize a secure system to purchase tickets for paid events.
 - The app offers streamlined ticket management with QR code generation for convenient entry.
- **Notifications and Reminders:**
 - Timely push notifications keep users informed about event updates, reminders, and important announcements.
- **Communication Tools:**
 - The app fosters two-way communication through in-app messaging between organizers and participants.
 - Dedicated discussion forums for each event enable interactive conversations and knowledge sharing.
- **Feedback and Reviews:**

- Participants can provide valuable feedback and rate events, contributing to continuous improvement.

2. Non-Functional Requirements

- **Performance:**
 - The app is engineered to handle high concurrency, supporting up to 10,000 concurrent users efficiently.
 - Fast loading times are crucial, ensuring a smooth user experience with any page loading within 2 seconds.
- **Security:**
 - User data privacy is paramount. The app employs robust data encryption for sensitive information.
 - Regular security audits and adherence to GDPR compliance are essential safeguards.
- **Usability:**
 - An intuitive user interface (UI) with clear navigation promotes a user-friendly experience.
 - Accessibility is a priority, ensuring the app complies with WCAG 2.1 guidelines for inclusivity.
- **Scalability:**
 - The app is built with scalability in mind, allowing for future feature expansion and adaptation to a growing user base.

3. Technical Requirements

- **Platform:**
 - The app is designed for broad accessibility, available on iOS, Android, and Web platforms.
 - A responsive design ensures optimal user experience across various devices and screen sizes.
- **Integration:**
 - Seamless integration with payment gateways empowers secure and convenient ticket purchasing.
 - An API facilitates third-party calendar synchronization with Google Calendar and Outlook.

Documentation and Traceability

1. Requirements Documentation

A comprehensive Requirement Specification Document (RSD) will be created, meticulously detailing all functional and non-functional requirements. This document will incorporate user stories, use cases, and clear acceptance criteria for each requirement.

2. Traceability Matrix

A traceability matrix will be established to ensure every requirement is demonstrably addressed throughout the entire Software Development Life Cycle (SDLC) stages. This matrix facilitates tracking of requirements from their inception through design, implementation, testing, and deployment.

Structure:

The traceability matrix will include the following columns:

- Requirement ID
- Description
- Source
- Priority
- Design Specification
- Implementation
- Test Cases
- Status

Example Entry:

Req ID	Description	Source	Priority	Design Spec	Implementation	Test Cases	Status
FR-01	User Registration and Login	Stakeholder Meeting	High	Design Doc #5	Module #12	Test Case #7	In Progress

3. SDLC Integration

- **Requirement Analysis:**
 - Workshops and stakeholder interviews will be conducted to gather and validate requirements effectively.
 - User personas and journey maps will be created to gain a deep understanding of user needs.
- **Design Phase:**
 - Wireframes and prototypes will be developed to visually represent the app's functionality and user flow.
 - Design will be rigorously reviewed to ensure alignment with documented requirements.
- **Development Phase:**
 - Features will be implemented meticulously following the established requirement specifications.
 - The traceability matrix will be consistently updated to reflect progress and maintain traceability.
- **Testing Phase:**
 - Comprehensive test cases will be developed based on the documented requirements.
 - Testing will encompass unit testing, integration testing, and rigorous User Acceptance

