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.

1. **User Roles**:

   o **Organizer**: Can create, update, and delete events. They can also manage event details (e.g., time, location, description).

   o **Attendee**: Can RSVP for events, view event details, and receive notifications/updates.

   o **Admin**: Can manage users, review events for approval, and ensure compliance with community standards.

2. **Event Creation**:

   o Users must be able to create events with:

   ▪ **Title, description, and category** (e.g., music, sports, education, etc.)

   ▪ **Date, time, and location** (either physical address or virtual meeting link)

   ▪ **RSVP/attendance tracking** with a set capacity limit (optional).

   ▪ **Event images** (optional).

   o The event creation process should be easy and guided, with default options for common categories.

3. **Event Discovery**:

   o Users must be able to search for events based on:

   ▪ **Date range, category, location**, and keywords.

   o The search results should be filterable, and users should be able to sort events by date, popularity, or distance.

4. **Notifications and Alerts**:

   o Attendees will receive notifications when:

   ▪ An event they've RSVPed to is approaching.

   ▪ Event details are updated or canceled.

   ▪ New events in their selected categories are added.

   o Users should be able to opt into or out of notifications.

5. **User Profiles**:

   o Users should have personal profiles where they can:

   ▪ Track past and upcoming events.

- Update their RSVP status.
- View their event participation history.

- o Privacy settings should be available for controlling who can view their profile.

6. **Event Approval (for Admins)**:

   - o Events created by users should be subject to admin approval before being made visible to the public.

   - o Admins must review events based on content guidelines and community standards.

7. **Accessibility**:

   - o The app should be designed with accessibility in mind, offering support for screen readers, keyboard navigation, and color contrast.

8. **Data Security**:

   - o Users' personal data should be encrypted, and the app should comply with privacy regulations such as GDPR.

   - o Admins should have access to user information only when necessary for event management.

How to Document and Trace the Requirements:

1. **Use Case Diagram**:

   - o Create a visual use case diagram to represent user roles (Organizer, Attendee, Admin) and interactions with the app (creating events, RSVP, event discovery, notifications).

2. **Feature Breakdown**:

   - o Create a table or spreadsheet outlining each feature with the following columns:

     - **Feature**: Name of the feature (e.g., Event Creation).

     - **Description**: A brief explanation of what the feature does.

     - **Priority**: High, Medium, Low.

     - **Acceptance Criteria**: Clear and testable criteria that define the success of the feature.

     - **Dependencies**: Other features that rely on this feature (e.g., Event Discovery depends on Event Creation).

3. **User Stories**:

   - o Document user stories for each feature (e.g., "As an attendee, I want to RSVP to events so that I can attend events in my community").

o   Each user story will have acceptance criteria that outline the expected behavior of the app.

4.   **Wireframes and Mockups**:

   o   Create wireframes for key pages like the event creation form, event listing, and user profiles. This will visually communicate the design requirements to stakeholders.

5.   **Traceability Matrix**:

   o   Maintain a traceability matrix that links requirements to user stories, features, and tests. This ensures that all requirements are covered during development and testing.

One-Page Brief Example:

Community Event App - Requirements Summary

Overview:
The Community Event App will facilitate event creation, discovery, and management for community members. Users can organize and attend events based on their interests, with features like RSVP tracking, notifications, and user profiles.

Key Features:

- **User Roles**: Organizer, Attendee, Admin

- **Event Creation**: Title, description, date, location, RSVP tracking

- **Event Discovery**: Search and filter by date, location, category

- **Notifications**: Alerts for event updates and new events

- **User Profiles**: Track events, RSVP status, and past participation

- **Admin Approval**: Event review and approval for community standards

Documentation Plan:

- **Use Case Diagram** to represent user roles and actions.

- **Feature Breakdown Table** for detailed tracking of each feature.

- **User Stories** for defining functionality from the user's perspective.

- **Wireframes/Mockups** for interface design.

- **Traceability Matrix** to ensure full requirement coverage.