#### **Software Development Life Cycle (SDLC) University Event Management Website**

#### **Requirement Analysis (Defining What is Needed)**

This phase focuses on identifying the specific functional and non-functional requirements of the University Event Management Website, ensuring they align with user expectations and technical feasibility.

* **Functional Requirements:**
  + The website must provide role-based access for students, faculty, and administrators.
  + Users should be able to create, view, register, and manage events.
  + Event listings should display event details including time, location, description, and organizer.
  + A search and filter functionality to find events based on categories or dates.
  + Notifications or alerts for upcoming events and updates.
* **Non-Functional Requirements:**
  + The platform must be responsive, adapting smoothly to desktops, tablets, and mobile devices.
  + Ensure fast page load times and minimal latency for smooth user experience.
  + Maintain a user-friendly and accessible interface with clear navigation and readable content.
  + Basic security features to protect user data and prevent unauthorized access.
* **Documentation:**
  + All requirements were recorded using collaborative tools like Google Docs and GitHub Issues for team-wide accessibility and updates.
* **Guidance:**
  + Project mentors and faculty supervisors reviewed the requirements to ensure alignment with academic objectives and practical feasibility.

This step lays the foundation for a product that not only meets user needs but is also feasible within the constraints of the project timeline and resources.