#### **Software Development Life Cycle (SDLC) for Interactive Quiz Application**

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

This phase identifies the features and constraints of Interactive Quiz Application based on user needs and technical feasibility.

* **Functional Requirements**:
  + The website must automatically adjust its layout for desktops, tablets, and mobile devices.
  + Includes clickable project cards, smooth scrolling, and functional contact form with validation.
  + A fixed or collapsible navbar that links to all major sections (Home, About, Projects, Contact) for seamless navigation.
* **Non-Functional Requirements**:
  + Fast-loading, lightweight UI for an optimal user experience.
  + Minimalist and intuitive design for easy navigation and readability.
  + Basic protection against spam submissions.
* **Documentation**: Requirements are documented in a shared Google Doc or GitHub Issues for team reference.
* **Guidance**: Faculty or team leads ensure requirements are clear, concise, and aligned with project goals.

This step ensures Interactive Quiz Application meets both user expectations and technical standards.