SDLC Phases: A Comprehensive Overview

Requirements

Icon: 📋

Description:

- **Purpose**: Gather and document user needs.
- **Importance**: Foundation for the project's success.
- **Activities**: Stakeholder meetings, requirement specifications, feasibility analysis.

Design

Icon: ✏️

Description:

- **Purpose**: Create system architecture and design models.
- **Importance**: Blueprint for implementation.
- **Activities**: High-level design, detailed design, prototyping.

Implementation

Icon: 💻

Description:

- **Purpose**: Code the software according to design.
- **Importance**: Turning ideas into a working system.
- **Activities**: Writing code, integrating components, peer reviews.

Testing

Icon: 🧪

Description:

- **Purpose**: Verify the software works as intended.
- **Importance**: Ensures quality and functionality.
- **Activities**: Unit testing, integration testing, system testing, user acceptance testing.

Deployment

Icon: 🚀

Description:

- **Purpose**: Release the software to users.
- **Importance**: Makes the product available for use.
- **Activities**: Deployment planning, release, monitoring, and maintenance.

SLDC Flowchart / Diagram :