

Assignment 1: SDLC Overview - Create a one-page infographic that outlines the SDLC phases (Requirements, Design, Implementation, Testing, Deployment), highlighting the importance of each phase and how they interconnect.

Software Development Life Cycle (SDLC) Phases

1. Requirements

In this phase, gathers the informations and documents what is required by users and stakeholders.

Activities:

- *Creating requirement documents

- *Reviewing and validating requirements

Interconnection: Forms the foundation for the design phase.

2. Design

In this phase, translates requirements into detailed architecture and design.

Activities:

- *System design specifications

- *Creating architectural diagrams

- *Designing database structures

Interconnection: Provides a blueprint for the implementation phase.

3. Implementation

In this phase we implement actual coding of the software according to the design specifications.

Activities:

- *Writing code

- *Integrating components

- *Code reviews and pair programming

Interconnection: Produces the executable software to be tested in the next phase.

4. Testing

In this phase, we ensures the software is functional, reliable, and free of bugs.

Activities:

- *Unit testing
- *Integration testing
- *System testing
- *User acceptance testing (UAT)

Interconnection: Validates that the software meets requirements and is ready for deployment.

5. Deployment

In this phase, the software is delivered to users and becomes operational.

Activities:

- *Deploying to production environment
- *Conducting user training
- *Monitoring and maintenance

Interconnection: Marks the transition to the operational phase where the software is used and maintained.

Interconnections Between Phases**Continuous Feedback Loop:**

- *Each phase provides feedback to the previous phase, ensuring any issues are addressed here.

Iterative Process:

- *Often revisited phases to refine and improve the product based on testing results and user feedback.

Collaboration:

- * Effective communication and collaboration among stakeholders, developers, and testers throughout all phases.

To create the infographic: - imaginary layout

Visual Layout:

- *Use a flowchart or circular design to show the cyclical nature of the SDLC.

*Use icons for each phase (e.g., checklist for Requirements, blueprint for Design, code for Implementation, magnifying glass for Testing, and rocket for Deployment).

Colors and Fonts:

*Choose a consistent color scheme.

*Use readable fonts and highlight key points.

Graphics and Charts:

*Include visual elements like arrows to indicate the flow and interconnections.

*Add brief descriptions and icons for visual appeal.