

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.

SDLC Overview Infographic

Phases of SDLC

1. Requirements Gathering:

- Importance: Understand what the software should do.
- Interconnection: Foundation for design and development phases.

2. Design:

- Importance: Create the blueprint for software architecture.
- Interconnection: Guides implementation and testing processes.

3. Implementation:

- Importance: Write and code the actual software.
- Interconnection: Transforms design into functional code.

4. Testing:

- Importance: Ensure software meets requirements and is bug-free.
- Interconnection: Verifies functionality before deployment.

5. Deployment:

- Importance: Release software to users or production environment.
- Interconnection: Marks completion of development cycle.

Key Points

- SDLC is a systematic approach to software development.
- Each phase builds upon the previous one, creating a structured development process.
- Testing ensures software quality before deployment.
- Maintenance phase keeps software updated and responsive to user needs.

Benefits of SDLC

- 1. Structured Approach:** Organized and efficient development.
- 2. Quality Assurance:** Testing reduces errors and enhances reliability.
- 3. Adaptability:** Maintenance allows updates based on user feedback.
- 4. Clear Communication:** Involves stakeholders, ensuring alignment with requirements.



