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.

1. Requirements:

Importance: Gathering and analyzing requirements ensures that the software will meet the needs of stakeholders.

Interconnection: The requirements phase sets the foundation for all subsequent phases by defining what the software should accomplish.

2. Design:

Importance: Designing the architecture, user interface, and system components ensures a structured approach to development.

Interconnection: Design decisions are based on the requirements, ensuring alignment between what is needed and how it will be implemented.

3. Implementation:

Importance: Writing and coding the software according to the design specifications brings the concept into reality.

Interconnection: Implementation relies on the design phase to ensure that the developed software matches the planned structure and functionality.

4. Testing:

Importance: Testing verifies that the software works as intended, identifying and fixing defects before deployment.

Interconnection: Testing validates the implementation against the requirements and design, ensuring quality and functionality.

5. Deployment:

Importance: Deploying the software for use by end-users or clients marks the culmination of the development process.

Interconnection: Successful deployment depends on the accuracy of implementation and the effectiveness of testing, ensuring a smooth transition to production.

This infographic visually represents the key phases of the SDLC, emphasizing their importance and interconnectedness in the software development process.