**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

**Planning/Requirements**

- Description: Gathering and analyzing user needs.

- Importance: Ensures that the final product meets user expectations.

- Interconnection: Provides the foundation for design and development.

**Design**

- Description: Creating detailed architecture and system design.

- Importance: Serves as a blueprint for implementation.

- Interconnection: Converts requirements into a technical plan.

**Implementation**

- Description: Writing the actual code.

- Importance: Turns the design into a functional product.

- Interconnection: Follows the design to ensure consistency and functionality.

**Testing**

- Description: Verifying that the software works as intended.

- Importance: Identifies and fixes bugs to ensure quality.

- Interconnection: Validates the implementation against requirements.

**Deployment**

- Description: Releasing the software to users.

- Importance: Makes the software available for use.

- Interconnection: Final step, but often requires feedback loops to previous phases for maintenance and updates.