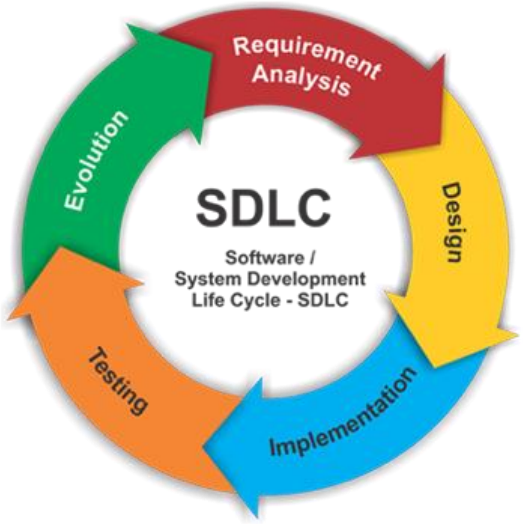
Assignment 1: SDLC Overview - Create a one-page infographic that outlines the SDLC phases (Requirements, Design, Implementation, Testing, Deployment), highlighting the importance of each phase and how they interconnect.

A Visual Guide to the Software Development Life Cycle (SDLC):



1.Requirements Phase:

Importance: Specifies the goals, functions, and extent of the program.

Activities: Compiling requirement specifications, performing feasibility studies, and obtaining user requirements.

Interconnection: Directs design and development activities, laying the groundwork for next stages.

2.Design Phase:

Importance: Converts specifications into an elaborate design blueprint.

Activities: System, database, UI/UX, and architectural design.

Interconnection: Provides guidance to developers on how to construct software by bridging the gap between requirements and implementation.

3.Implementation Phase:

Importance: entails using the design guidelines to code and construct the real software.

Activities: Debugging, unit, integration, and writing code are all included.

Interconnection: Makes the design a physical product and guarantees that the program performs as intended.

4.Testing:

Significance: Verifies the program in accordance with specifications and pinpoints errors.

Activities: include regression, performance, acceptability, and system testing.

Interconnection: Verifies that, prior to deployment, the program satisfies quality requirements and performs as intended.

5. Deployment

Significance: Consists of making the software available to end users for real use.

Tasks include data migration, installation, configuration, and user training.

Interconnection: Makes the software available to its intended audience by moving it from development to production.

Conclusion:

Each of the interconnected phases that make up the Software creation Life Cycle (SDLC) is essential to the successful creation of software. Teams can effectively navigate the development process and ensure the delivery of high-quality software that satisfies user needs and corporate objectives by knowing the significance of each phase and how it interconnects with the others.