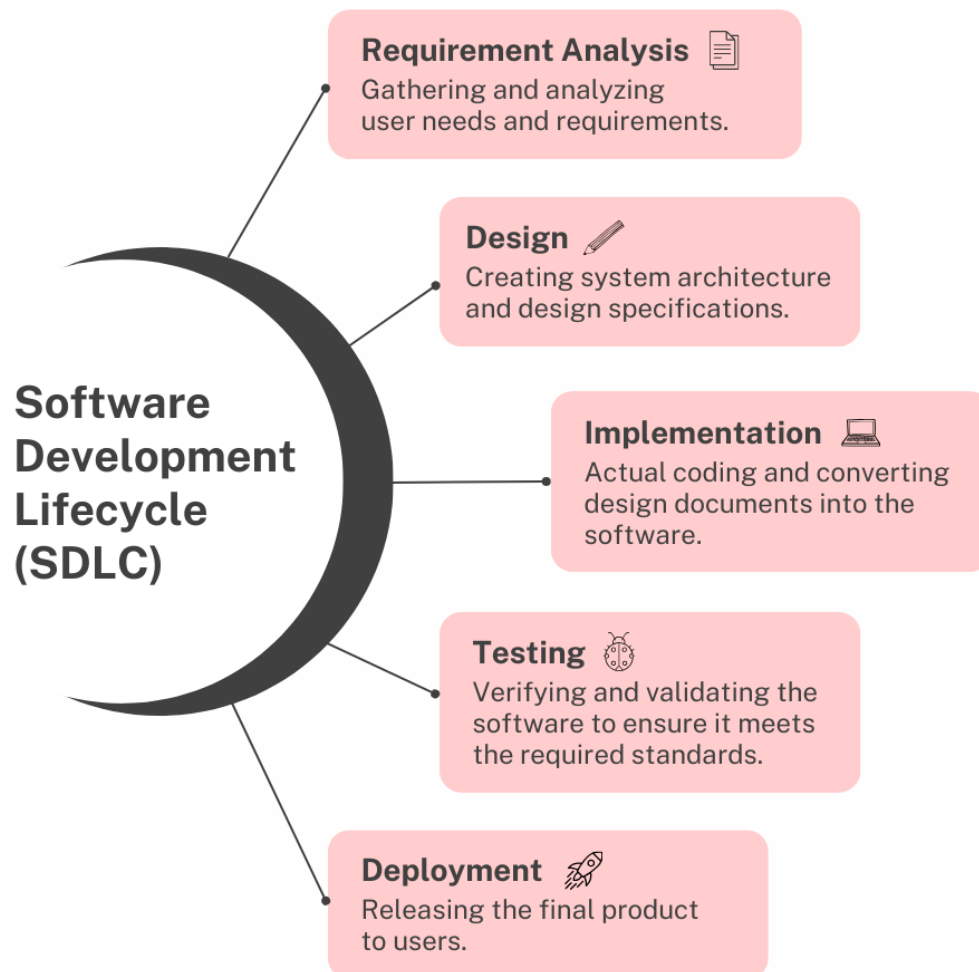


Assignment 1

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. Requirement Phase

- ✓ Gathering and analyzing user needs and requirements.
- ✓ Ensures the project starts with a clear understanding of what is needed, preventing scope creep and miscommunication.
- ✓ Feeds into the Design phase by providing a blueprint of what needs to be developed.

2. Design Phase

- ✓ Creating system architecture and design specifications.
- ✓ Provides a detailed plan and models to follow during development, ensuring all components fit together seamlessly.
- ✓ Translates requirements into a structured format that guides the Implementation phase.

3. Implementation Phase

- ✓ Actual coding and converting design documents into the software.
- ✓ The core phase where developers bring the design to life through programming.
- ✓ Implements the designs, which will then be rigorously tested in the Testing phase.

4. Testing Phase

- ✓ Verifying and validating the software to ensure it meets the required standards.
- ✓ Detects and resolves defects and issues, ensuring the software is reliable and functions correctly.
- ✓ Provides feedback to Implementation for fixing issues, ensuring the software is ready for Deployment.

5. Deployment Phase

- ✓ Releasing the final product to users.
- ✓ Ensures the software is properly delivered, installed, and configured in the production environment.
- ✓ Completes the cycle, often leading back to gathering new requirements based on user feedback, thereby initiating a new SDLC cycle.