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.

**Requirements:**Gathering and understanding the needs of stakeholders.Establishing project scope, goals.

**Design:**Translating requirements into a technical blueprint.Architectural, UI, and Database design.Key Activities: Wire framing, Prototyping, ER Diagrams.

**Implementation:**Writing code based on design specifications.Development of features and functionalities.Key Activities: Coding, Code Reviews.

**Testing:**Validating that the software meets requirements.Detecting and fixing defects.Key Activities: Unit Testing, Integration Testing, User Acceptance Testing.

**Deployment:**Releasing the software for users.Installation, configuration, and launch.Key Activities: Deployment Planning, Rollout, Post-Deployment Support.