

Assignment-1

Software Development Life Cycle (SDLC) Phases

1. Requirements

- Objective: Gather and analyze business and user needs.
- Key Activities: Stakeholder meetings, requirement documentation, feasibility analysis.
- Importance: Ensures the project is aligned with user needs and business objectives, sets a clear scope.
- Output: Requirements Specification Document.

2. Design

- Objective: Create a blueprint for the system.
- Key Activities: System architecture design, UI/UX design, database design.
- Importance: Provides a detailed plan, helps in visualizing the final product, reduces development risks.
- Output: Design Specifications, Prototypes.

3. Implementation

- Objective: Build the actual software.
- Key Activities: Coding, integrating different modules, following coding standards.
- Importance: Converts design documents into a functional system, core development phase.
- Output: Source Code, Executable Programs.

4. Testing

- Objective: Ensure the software is bug-free and meets requirements.
- Key Activities: Unit testing, integration testing, system testing, user acceptance testing.
- Importance: Identifies and fixes defects, ensures quality and performance.
- Output: Test Plans, Test Cases, Bug Reports.

5. Deployment

- Objective: Release the software to users.
- Key Activities: Deployment planning, installation, user training.
- Importance: Ensures the software is correctly installed and operational in the user environment.
- Output: Deployed System, Deployment Guides.

❖ Visual Layout for Infographic:

- Title: SDLC Phases Overview

❖ Main Body:

- Create five distinct sections or blocks, each representing a phase.
- Use icons or graphics to symbolize each phase (e.g., a checklist for Requirements, a blueprint for Design, etc.).
- Include a brief description and key activities for each phase.
- Highlight the importance of each phase with bold or different color text.

❖ Interconnection Arrows:

- Use arrows or lines to show the flow from one phase to the next.
- Include brief notes or icons along the arrows to emphasize how each phase leads to the next.

❖ Footer:

- Add a concluding remark or quote about the importance of SDLC in ensuring successful software development.