**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**.

\*Infographic Content\*

1**. \*Introduction :**

- Introduction to SDLC and its purpose.

- Visual representation: A circular flow diagram showing the continuous nature of SDLC.

2. **\*Phases of SDLC\***

**\*A. Requirements\***

- **\*Icon:\*** Checklist

- **\*Description:\***

- Collect and document user needs and expectations.

- **\*Importance:\***

- Ensures alignment with stakeholder needs.

- Reduces risk of scope creep.

- **\*Interconnection:\***

- Foundation for design, ensuring all subsequent phases meet specified needs.

\***B. Design\***

- **\*Icon:\*** Blueprint

- \***Description:\***

- Plan the system architecture and design detailed specifications.

**- \*Importance:\***

- Provides a clear blueprint for implementation.

- Identifies potential issues early.

- \***Interconnection:\***

- Transforms requirements into actionable plans.

- Prepares for seamless implementation.

\***C. Implementation\***

- **\*Icon:\*** Code

- **\*Description:\***

- Develop and code the system based on design specifications.

- \***Importance:\***

- Turns design into a functional product.

- Integrates various system components.

- **\*Interconnection:\***

- Realizes the design and prepares for testing.

**\*D. Testing\***

- **\*Icon:\*** Magnifying glass

**- \*Description:\***

- Verify that the system works as intended and meets requirements.

- **\*Importance:\***

- Ensures system reliability and functionality.

- Identifies and resolves defects.

- **\*Interconnection:\***

- Validates implementation.

- Ensures readiness for deployment.

\***E. Deployment\***

- **\*Icon:\*** Rocket

- **\*Description:\***

- Roll out the system to users in a live environment.

- **\*Importance:\***

- Delivers the final product to end-users.

- Ensures smooth transition to operational status.

- **\*Interconnection:\***

- Based on successful testing.

- Transitions from development to live operation.

3. \*Interconnecting Arrows or Flow Lines\*

- Show the continuous flow and feedback loops between phases.

- Indicate how each phase feeds into the next and supports iterative improvement.

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**Visual Design Tips :**

**Color Scheme:** Use a consistent, professional color palette.

**Font:** Use clear, legible fonts with varying sizes for headings and body text.

**Icons:** Simple, easily recognizable icons for each phase.

**Layout:** Ensure a logical flow, either top-to-bottom or left-to-right, guiding the viewer through each phase.

**White Space:** Use sufficient white space to avoid clutter and enhance readability.

**Visual Balance:** Balance text and graphics to create an engaging and informative design.

**Title:**

SDLC Phases: A Comprehensive Overview

**Circular Flow Diagram:**

**- \*Center:\*** SDLC

**- \*Phases Around the Circle:\*** Requirements -> Design -> Implementation -> Testing -> Deployment -> (back to) Requirements

**\*Phase Details:**

**\*Requirements**

**- Icon:** 🗒️

**-Text:**

**- Description**: Collect and document user needs.

**- Importance**: Aligns project with stakeholder needs, reduces scope creep.

- **Interconnection:** Basis for design phase.

**\*Design\***

**- \*Icon:\*** 📐

**- Text:**

**- \*Description:\*** Plan system architecture and design.

**- \*Importance:\*** Blueprint for implementation, identifies issues early.

**- \*Interconnection**:\* Transforms requirements into actionable plans.

\***Implementation\***

**- \*Icon:\*** 💻

**- \*Text:\***

**- \*Description:\*** Develop and code the system.

**- \*Importance:\*** Creates the functional product.

**- \*Interconnection**:\* Follows design, prepares for testing.

**\*Testing\***

- \***Icon:\*** 🔍

- **\*Text:\***

**- \*Description**:\* Verify system functionality.

- **\*Importance**:\* Ensures reliability and meets requirements.

- \***Interconnection:**\* Validates implementation, ensures deployment readiness.

**\*Deployment\***

- **\*Icon:\*** 🚀

- **\*Text:\***

- **\*Description**:\* Roll out system to users.

- **\*Importance**:\* Delivers final product, ensures smooth transition.

- **\*Interconnection**:\* Based on successful testing, transitions to operation.

With this structure, you can create a visually appealing and informative one-page infographic on the SDLC phases.