**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.**

* + SDLC Software Development LifeCycle
    - SDLC is a process used by software industry professionals to design, develop, and test high-quality software.
    - Ensures a structured approach to software development.

1. **SDLC Phases**
   * **1. Requirements**
     + **Importance**: Gather and analyze business requirements to ensure the final product meets user needs.
     + **Activities**: Requirements gathering, analysis, documentation, and validation.
   * **2. Design**
     + **Importance**: Create the architecture of the software project, ensuring scalability, reliability, and performance.
     + **Activities**: System and software design, creation of design documents, review and approval.
   * **3. Implementation**
     + **Importance**: Actual coding of the software based on the design documents.
     + **Activities**: Writing code, version control, code review, and integration.
   * **4. Testing**
     + **Importance**: Verify that the software works as intended and is free of defects.
     + **Activities**: Writing test cases, executing tests, bug reporting, and fixing.
   * **5. Deployment**
     + **Importance**: Make the software available for use in a live environment.
     + **Activities**: Deployment planning, release management, and monitoring.
2. **How Phases Interconnect**
   * **Flow Diagram**
     + Arrows connecting each phase to show the sequence.
     + Feedback loops to indicate iterative nature and continuous improvement.
   * **Dependencies**
     + Highlight how outputs from one phase serve as inputs for the next.
     + Importance of continuous communication and feedback.
3. **Visual Elements**
   * **Icons and Illustrations**
     + Specific icons for each phase (e.g., document icon for Requirements, blueprint icon for Design).
   * **Flow Diagram**
     + Arrows and boxes to show the flow from one phase to the next.
   * **Color Coding**
     + Use different colors for each phase to distinguish them clearly.
   * **Graphs/Charts**
     + Illustrate the importance and effort distribution across phases (e.g., pie chart showing time allocation).
4. **Conclusion**
   * Summarize the importance of each SDLC phase.
   * Emphasize the necessity of following a structured process for successful software development.