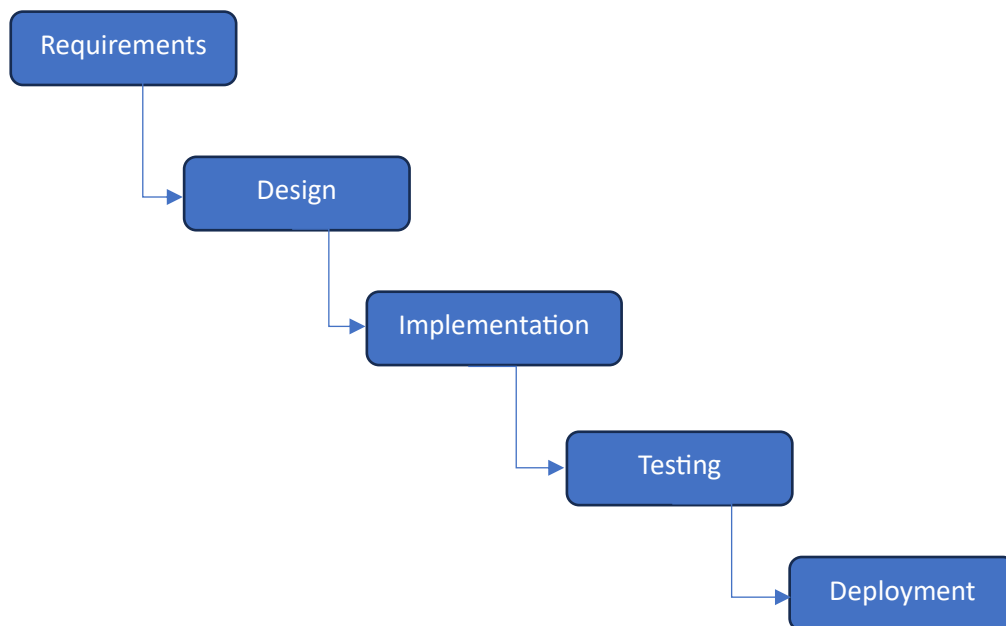**SDLC Overview - Create a one-page infographic that outlines the SDLC phases (Requirements, Design, Implementation, Testing, Deployment), highlighting the importance of each phase and how they interconnect.**

```
┌──────────────┐
│ Requirements │
└──────────────┘
        │
        └──────┐
          ┌──────────┐
          │  Design  │
          └──────────┘
                │
                └──────┐
                  ┌────────────────┐
                  │ Implementation │
                  └────────────────┘
                          │
                          └──────┐
                            ┌──────────┐
                            │ Testing  │
                            └──────────┘
                                  │
                                  └──────┐
                                    ┌──────────────┐
                                    │  Deployment  │
                                    └──────────────┘
```

Requirement: - In this same stage, requirement analysis is also performed by the developers of the organization.

- **Importance**: Define project goals, scope, and functionalities.
- **Interconnect**: Directly informs design phase, ensuring alignment with user needs.

Implementation: - At this stage, the fundamental development of the product starts. For this, developers use a specific programming code as per the design in the DDS. Hence, it is important for the coders to follow the protocols set by the association. Conventional programming tools like compilers, interpreters, debuggers, etc. are also put into use at this stage. Some popular languages like C/C++, Python, Java, etc. are put into use as per the software regulations.

- **Importance**: Writing code and building the software.
- **Interconnect**: Relies on requirements and design phases for clear direction and structure.

Deign: - with the requirements defined in SRS, multiple designs for the product architecture are present in the Design Document Specification (DDS).

- **Importance**: Create the architecture, user interface, and system specifications.

- **Interconnect**: Guides implementation phase by providing a blueprint for development.

Testing: - After the development of the product, testing of the software is necessary to ensure its smooth execution. Although, minimal testing is conducted at every stage of SDLC. Therefore, at this stage, all the probable flaws are tracked, fixed, and retested. This ensures that the product confronts the quality requirements of SRS.

- **Importance**: Writing code and building the software.
- **Interconnect**: Relies on requirements and design phases for clear direction and structure.

Deployment: - After detailed testing, the conclusive product is released in phases as per the organization's strategy. Then it is tested in a real industrial environment. It is important to ensure its smooth performance. If it performs well, the organization sends out the product as a whole. After retrieving beneficial feedback, the company releases it as it is or with auxiliary improvements to make it further helpful for the customers.

- **Importance**: Release the software for users.
- **Interconnect**: Culmination of SDLC, integrating all phases to deliver a functional product.