

The background features a solid purple vertical bar on the left. The rest of the slide has a light gray background with faint, large-scale geometric patterns of overlapping triangles. In the top right corner, there is a decorative element consisting of a grid of small gray dots, with some dots missing to form a triangular shape pointing towards the center.

SDLC

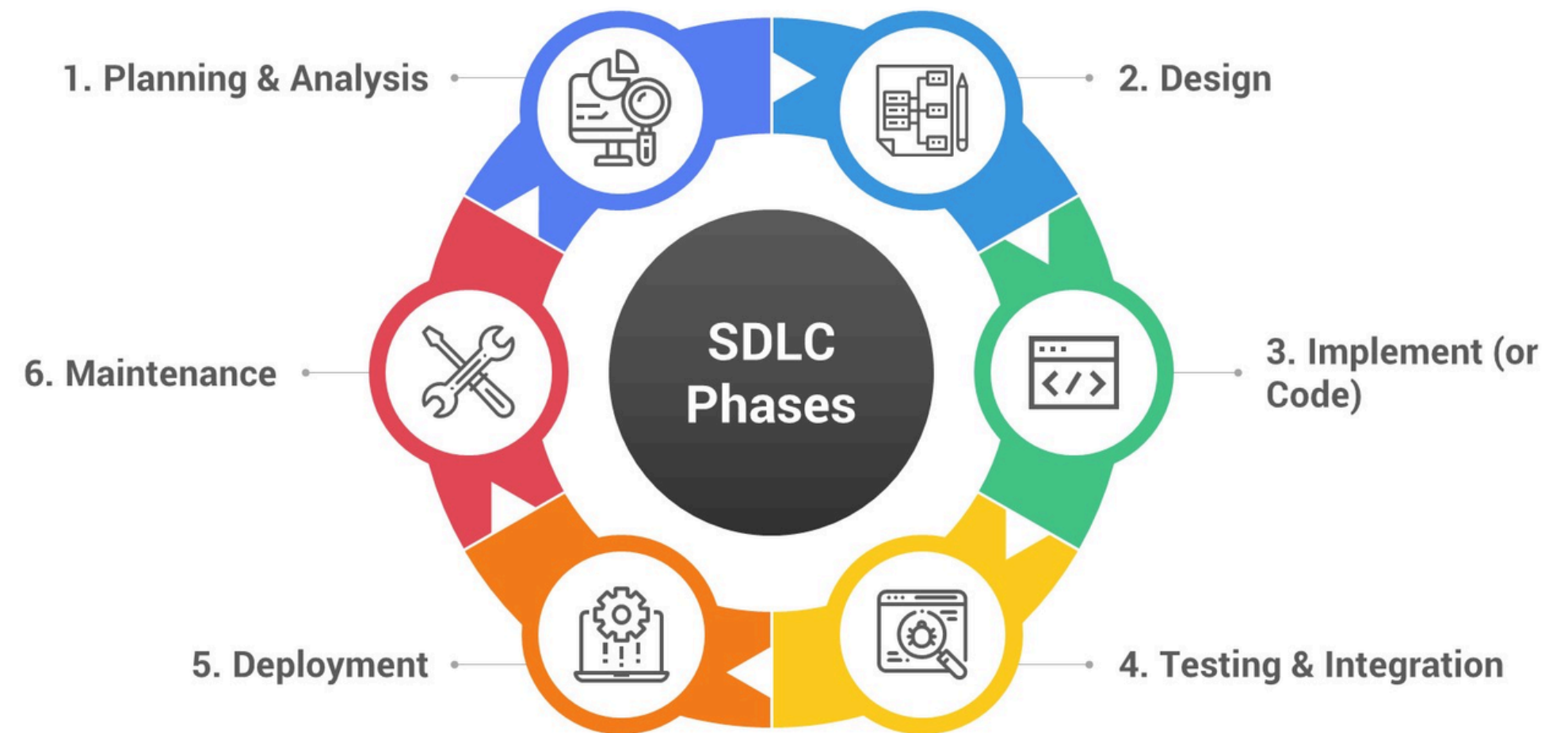
SOFTWARE DEVELOPMENT LIFE CYCLE

SDLC?

The software development life cycle (SDLC) is a process that consists of a series of well-defined phases through which software passes from its initial conception to eventual delivery to the customer. The SDLC provides a structure for understanding the phases of the software development process and a detailed description of each stage. It also helps ensure that all necessary steps are taken to complete the software development process.

Software Development Life Cycle (SDLC) Phases

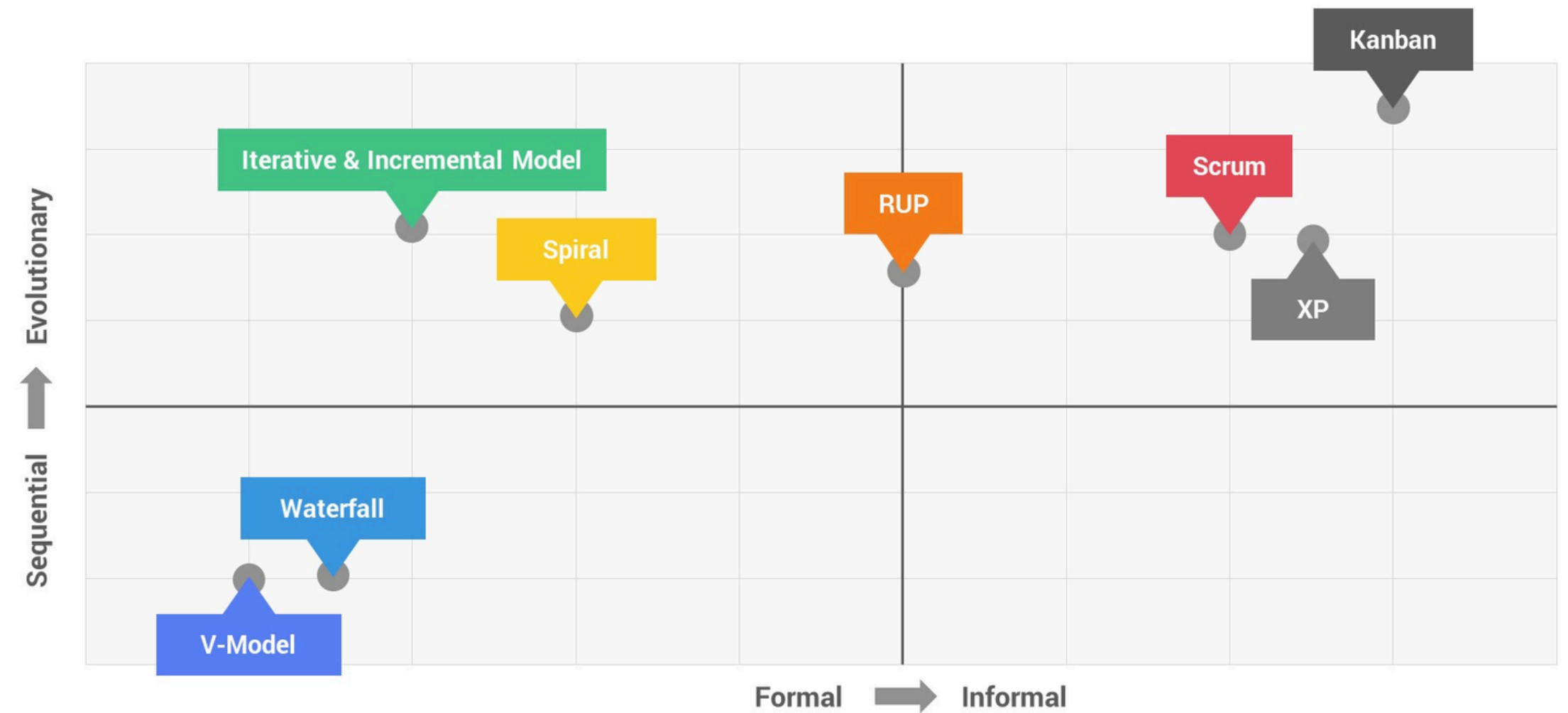
Software Development Life Cycle (SDLC) Phases



SDLC MODEL

- WATER FALL MODEL
- ITERATIVE MODEL
- SPIRAL MODEL
- V-MODEL

Types of Popular SDLC Models



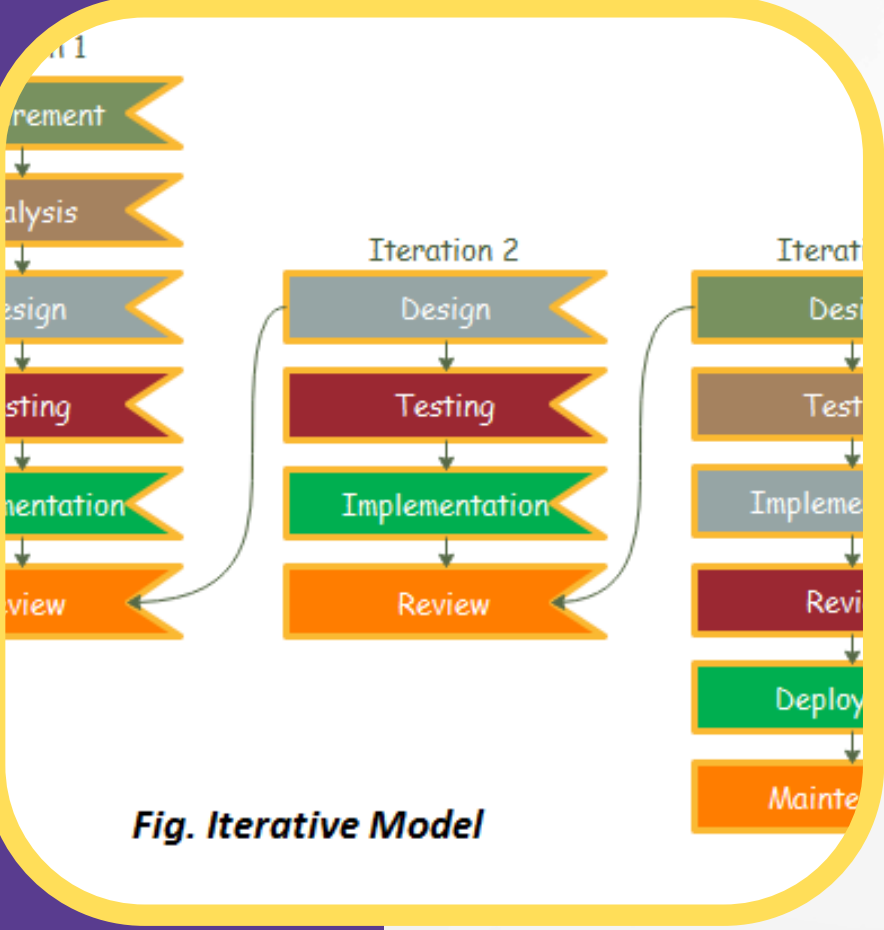
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graph TD; A[Requirements] --> B[Analysis]; B --> C[Design]; C --> D[Coding/Implementation]; D --> E[Testing]; E --> F[Operation/deployment]; F --> G[Maintenance];
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The Waterfall Model is a sequential process for software development. It consists of the following stages:

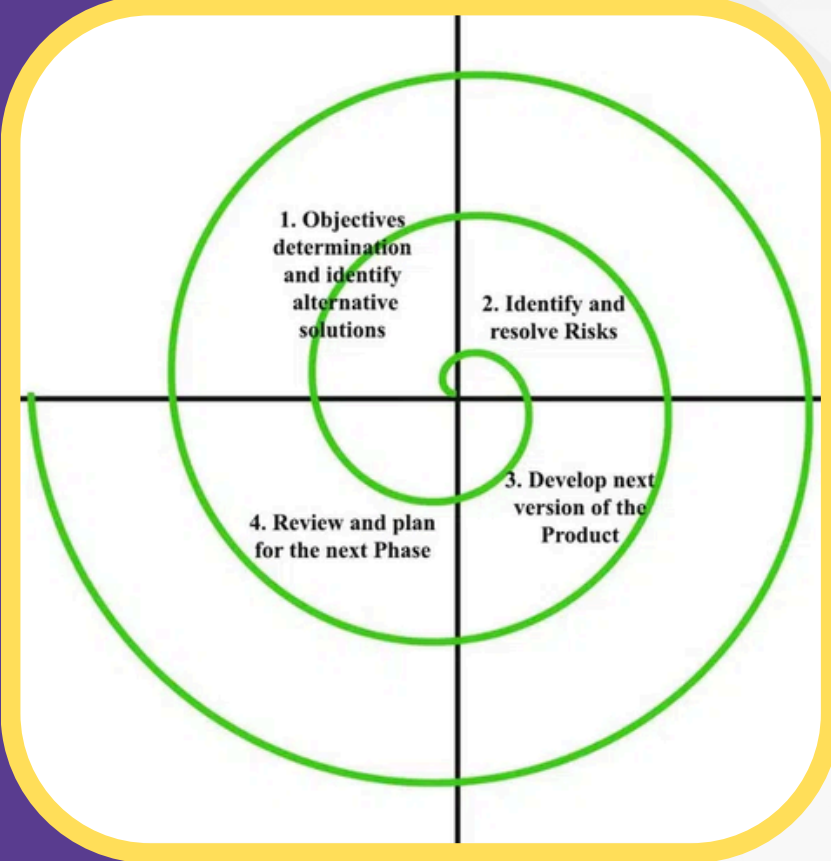
- Requirements
- Analysis
- Design
- Coding/Implementation
- Testing
- Operation/deployment
- Maintenance

Each stage is represented by a colored box, and the process flows from one stage to the next in a downward, sequential manner.

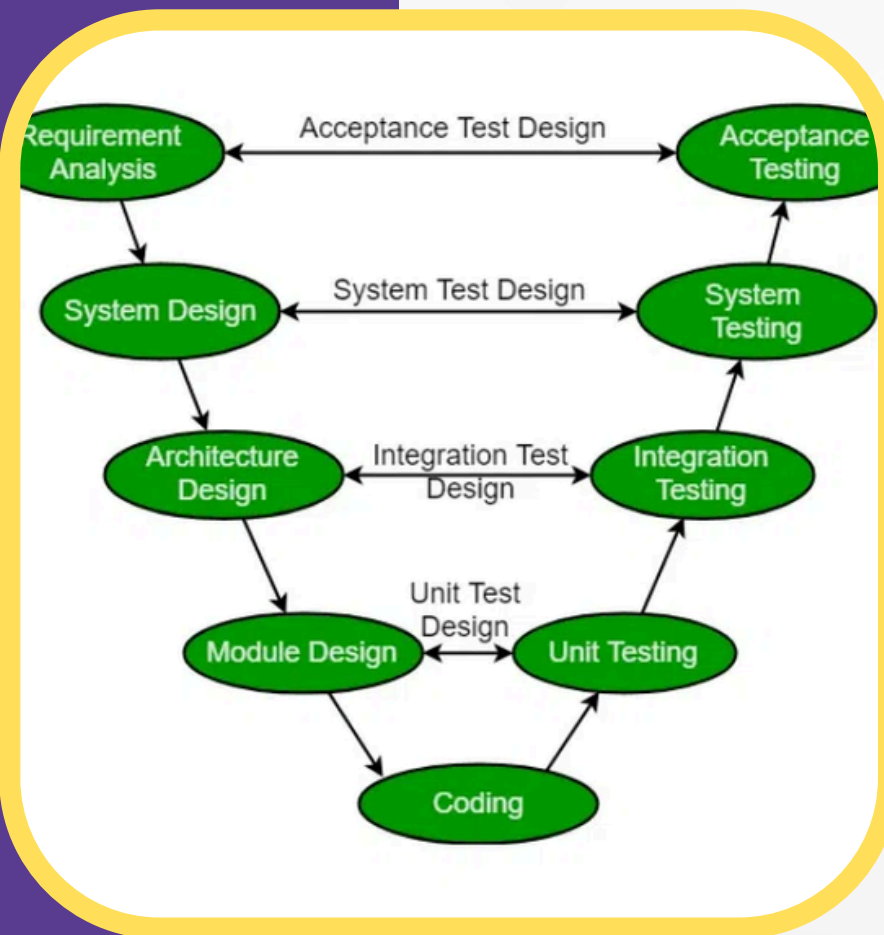
The waterfall model uses a logical progression of SDLC steps for a project, similar to the direction water flows over the edge of a cliff. It sets distinct endpoints or goals for each phase of development. Those endpoints or goals can't be revisited after their completion.



The Iterative Model allows the accessing earlier phases, in which the variations made respectively. The final output of the project renewed at the end of the Software Development Life Cycle (SDLC) process.



The Spiral Model is a Software Development Life Cycle (SDLC) model that provides a systematic and iterative approach to software development. In its diagrammatic representation, looks like a spiral with many loops. The exact number of loops of the spiral is unknown and can vary from project to project. Each loop of the spiral is called a phase of the software development process.



The V-Model is a software development life cycle (SDLC) model that provides a systematic and visual representation of the software development process. It is based on the idea of a "V" shape, with the two legs of the "V" representing the progression of the software development process from requirements gathering and analysis to design, implementation, testing, and maintenance.