

Introduction to Computer

Lecture # 17

Topics

- Software Development Life Cycle (SDLC)
- What are the 7 phases of SDLC?
- 6 basic SDLC methodologies
- waterfall model
- What is spiral SDLC?

Software Development Life Cycle (SDLC)

- **Software Development Life Cycle (SDLC)** is a process used by the software industry to design, develop and test high quality software. The **SDLC** aims to produce a high-quality software that meets or exceeds customer expectations, reaches completion within times and cost estimates

What are the 7 phases of SDLC?

- The **7 phases of Software Development Life Cycle** are planning, requirements, design, development, testing, deployment, and maintenance.
- **Software Development Life Cycle** consists of a complete plan explaining the way to develop, maintain and replace specific software system.

6 basic SDLC methodologies

o 6 basic SDLC methodologies:

- 1) Waterfall Model. Waterfall is the oldest and most straightforward of the structured SDLC methodologies — finish one phase, then move on to the next. ...
- 2) V-Shaped Model. ...
- 3) Iterative Model. ...
- 4) Spiral Model. ...
- 5) Big Bang Model. ...
- 6) Agile Model

waterfall model

- o **waterfall model**

The waterfall model is a linear, sequential approach to the software development life cycle (SDLC) that is popular in software engineering and product development. The waterfall model emphasizes a logical progression of steps. Similar to the direction water flows over the edge of a cliff, distinct endpoints or goals are set for each phase of development and cannot be revisited after completion.

Role of testing in SDLC

- What is the role of testing in SDLC?
- In the software development life cycle(**SDLC**) the **Testing** is plays an **importance role**, which helps to improve the quality, reliability & performance of the system with all check what all **functions** software supposed to do & also check that Software is not doing what he not supposed to do.

Spiral SDLC

- What is spiral SDLC?
- **SDLC - Spiral** Model. ... This **Spiral** model is a combination of iterative development process model and sequential linear development model i.e. the waterfall model with a very high emphasis on risk analysis. It allows incremental releases of the product or incremental refinement through each iteration around the **spiral**

THANK YOU

Best of luck