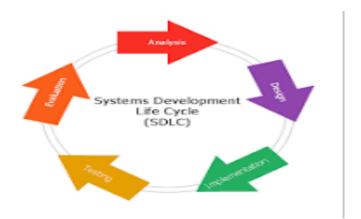
1.what is SDLC?

➤ It is system development life cycle . it is a process for planning, creating, testing and deploying an information system. The SDLC concept applies to a range of hardware and software configurations, as a system can be composed of hardware only, software only, or a combination of both. There are usually six stages in this cycle: requirement analysis, design, development and testing, implementation, documentation, and evaluation.



2. What is software testing?

Software testing is the act of examining the artifacts and the behavior of the software under test by validation and verification. Software testing can also provide an objective, independent view of the software to allow the business to appreciate and understand the risks of software implementation.

3. What is SRS?

> software requirements specification (SRS) is a document that describes what the software will do and how it will be expected to perform. It also describes the functionality the product needs to fulfill the needs of all stakeholders (business, users).

4. What is oops?

➤ Object-oriented programming a computer programming model that organizes software design around data, or objects, rather than functions and logic.

5. Write Basic Concepts of oops?

- Classes
- objects
- encapsulation
- inheritance
- polymorphism
- interfaces

6. What is object?

An object can be defined as a data field that has unique attributes and behavior.

7. What is class?

➤ a class is a blueprint for creating objects, providing initial values for state, and implementations of behavior.

8. What is encapsulation?

It refers to the bundling of data with the methods that operate on that data. Encapsulation is used to hide the values or state of a structured data object inside a class, preventing unauthorized parties' direct access to them.

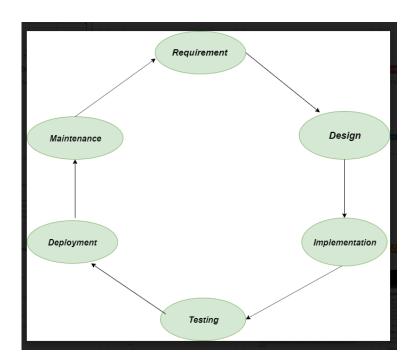
9. What is inheritance?

The process by which genetic information is passed on from parent to child.

10. What is polymorphism?

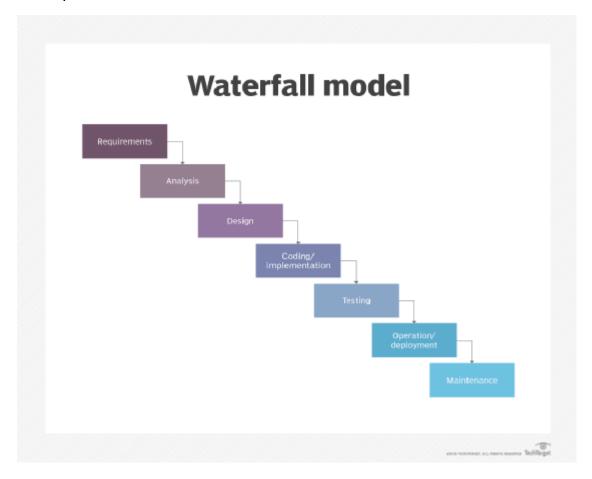
Polymorphism the task that performs a single action in different w

11. Write SDLC phases with basic introduction



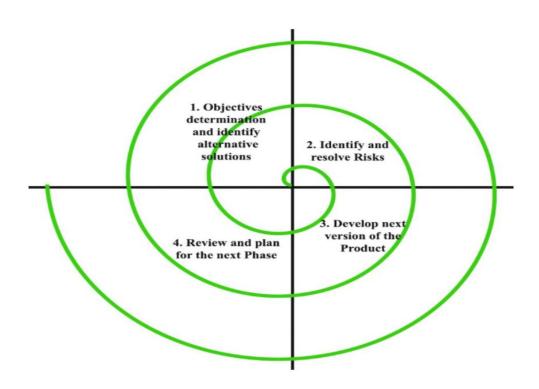
- **Requirements:** This phase involves gathering information about the software requirements from stakeholders, such as customers, end-users, and business analysts.
- **Design:** In this phase, the software design is created, which includes the overall architecture of the software, data structures, and interfaces.
- Implementation or coding: The design is then implemented in code, usually in several iterations, and this phase is also called as Development.
- **Testing:** The software is thoroughly tested to ensure that it meets the requirements and works correctly.
- **Deployment:** After successful testing, The software is deployed to a production environment and made available to end-users.
- **Maintenance:** This phase includes ongoing support, bug fixes, and updates to the software.

12. Explain Phases of the waterfall model



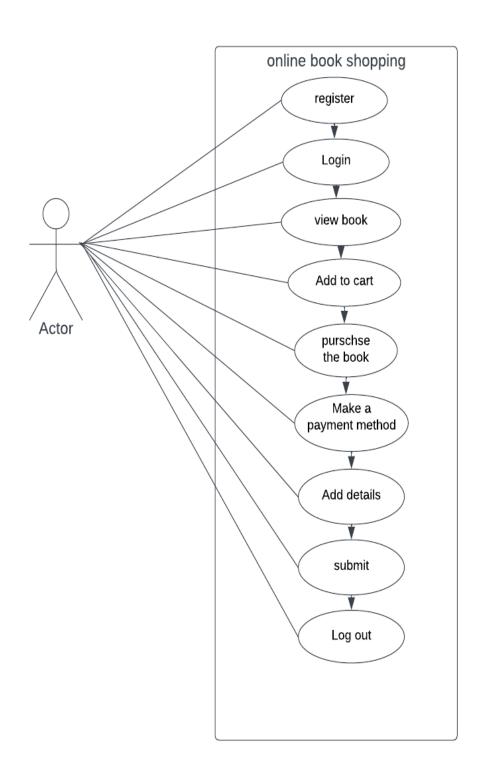
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13. Write phases of spiral model



The spiral model is similar to the incremental development for a system, with more emphasis placed on risk analysis. The spiral model has four phases: Planning, Design, Construct and Evaluation. A software project repeatedly passes through these phases in iterations (called Spirals in this model).

14.Draw the usecase of online bookshopping



15.Draw the online bill payment system.

