1. What is SDLC ?

SDLC is a steructureimpared the development of a software product.

1. What is agile methodology?

Agile SDLC model is a combination of iterative and incremental process modals with focus on process adaptability and customer satisfaction by rapid delivery of working software product.

1. What is SRS?

A software requirement specification is a complete description of the behavior of the system to be develop.

1. What is oops?

Object oriented programming

Object oriented

Fourlas on data rather then process

1. Write basic concepts of opps?
2. Whats is object

Object is an instrance \ example of a class

1. Whats is class

Class can be define a blueprint for object

1. What is encapsulation

It is the process of werapping up of data into a single unit .

1. What is inheritance

Inheritance means that one class inherits the characteristics of anther class. This is also called is a relationship.

1. What is polymorphism

Polymarphism mean “ having many forms”

1. What is RDBMS

12 .what is SQL

SQL is structured query language which is a computer laungage for storing manipulating and retrieving data stred in relational data base.

1. Write SQL commands

DDL- data definition language

DML- data manipulation language

DCL- data control language

DQL- data query language

1. Draw usecase on online book shopping

**Online book shopping**

Registration

Login

Search a book

Add to Cart

Profile Management

Admin

Payment

+

Costumer

Online

COD

Track Product

Feedback

Selier

1. Write SDLC phases with basic introduction
2. Reqirement collection : establish costomer
3. Analysis : model and sepecify the requirement “what”
4. Design: model and specify a solution - why
5. Implemenation : conturct a solution in software
6. Testing : validate the software
7. Mentenane : repair defectes and adapt the solution to the new requuiment
8. Explain phases of waterfall model

|  |  |
| --- | --- |
| **Requirement Gathering stage** | * During this phase, detailed requirements of the software system to be developed are gathered from client |
| **Design Stage** | * Plan the programming language, for Example [Java](https://www.guru99.com/java-tutorial.html), [PHP](https://www.guru99.com/php-tutorials.html), .net * or database like Oracle, MySQL, etc. * Or other high-level technical details of the project |
| **Built Stage** | * After design stage, it is built stage, that is nothing but coding the software |
| **Test Stage** | * In this phase, you test the software to verify that it is built as per the specifications given by the client. |
| **Deployment stage** | * Deploy the application in the respective environment |
| **Maintenance stage** | * Once your system is ready to use, you may later require change the code as per customer request |

1. Write phases of spiral model
2. Planning
3. Risk analysis
4. Enginerring
5. Customer evation
6. write agile manifesto principles?
7. Individuals and interactions
8. Working software
9. Customer collaboration
10. Responding to change
11. Write is join?
12. Write type of join.
13. Explail working methodology of agile model and write pros and cons.

Agile SDLC model is a combination of iterative and incremental process models with

focus on process adaptability and customer satisfaction by rapid delivery of working

software product.

Agile Methods break the product into small incremental builds.

These builds are provided in iterations.

Each iteration typically lasts from about one to three weeks.

Every iteration involves cross functional teams working simultaneously on various areas

like planning, requirements analysis, design, coding, unit testing, and acceptance testing.

At the end of the iteration a working product is displayed to the customer and important

stakeholders. What is Agile?

Agile model believes that every project needs to be handled differently and the existing

methods need to be tailored to best suit the project requirements. In agile the tasks are

divided to time

boxes (small time frames) to deliver specific features for a release.

Iterative approach is taken and working software build is delivered after each iteration. Each

build is incremental in terms of features; the final build holds all the features required by the

customer.

Agile thought process had started early in the software development and started becoming

popular with time due to its flexibility and adaptability.

**Pron:**

Is a very realistic approach to software development

Promotes teamwork and cross training.

Functionality can be developed rapidly and demonstrated.

Resource requirements are minimum.

Suitable for fixed or changing requirements

Delivers early partial working solutions.

**Cons:**

Not suitable for handling complex dependencies.

More risk of sustainability, maintainability and extensibility.

An overall plan, an agile leader and agile PM practice is a must without which it will not

work.

Strict delivery management dictates the scope, functionality to be delivered, and adjustments

to meet the deadlines.

Depends heavily on customer interaction, so if customer is not clear, team can be driven in

the wrong direction.

There is very high individual dependency, since there is minimum documentation generated.

1. **Draw usecase on online shopping product using CDO.**