1.What is SDLC

SDLC is full form of ‘Software Development life Cycle’. SDLC is structure imposed on development of software which includes software planning, implementation, designing, testing, documentation, deployment.

2. What is software testing?

It is process to identify correctness, completeness and quality of developed software.

3. What is agile methodology?

It is wildly used software methodology in IT industries. It is basically combination of iterative and incremental method which focus on team work and customer satisfaction.

4.What is SRS

SRS is short form of Software Required Specification which is description of behaviour of the system which is developed.

5. What is oops

OOPS is short form of Object Oriented Programming System. It is made up of six concepts: object, class, encapsulation, polymorphism, Inheritance, Abstraction. This process as name suggest focus on object which is like black box, everything from internal details are hidden.

6. Write Basic Concepts of oops

There are six basic concept of OOPS:

1. Object
2. Class
3. Encapsulation
4. Abstraction
5. Inheritance
6. Polymorphism

7. What is object

Object is individual item, which is unique and well defined. It is associated with class. Object is instance of class. A defined object creates memory for class to access its property through class if it is not private.

8. What is class

Class is inclusion of data member and member function with it’s behaviour. Class is blueprint of object. For example,

If we want to build a building, then we need to create it’s blueprint first and decide every aspect of building. Here, blueprint will be class and building will be object.

9. What is encapsulation

Encapsulation is wrapping up data in small package.

10. What is inheritance

Inheritance is using its property from parent class to child class or superclass to sub class. It’s main use is to reuse their property and behaviour

11. What is polymorphism

As name suggest polymorphism is having more than one form.it is defined in two ways, 1. Method over riding 2. Over loading.

12. Draw Usecase on Online book shopping

-Open amazon application in the phone

-Search for the desired book

-Check for all information like delivery on location, discount, ratings etc.

-Click on buy now

- Click on place an order if already logged in with correct address

- Select payment method (considering Cod)

- check for all the information before confirming

- confirm the order

- Wait for the confirmation mail/ text.

13.Draw Usecase on online bill payment system (paytm)

-Open Paytm application in the phone

- Select mobile recharge from recharge and bill payment

-Select or enter the phone number for paying bill

- change operator if needed

- select data plan from all the data plans

- click confirm and select paytm wallet

- enter the amount and press pay

- Enter UPI pin

- wait for the paymnt to be successful

- wait for the confirmation message and cross check the remained amount.

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14. Write SDLC phases with basic introduction

There are six phases of SDLC:

1. Requirement- In this phase is first step which is collection of all the requirement with all the details and specification
2. Analysis- In this, what requirements are given and other user specification must be needed to develop software
3. Design- the proper design is supposed to make before start doing any work i.e. why this specification
4. Implementation- this will construct a solution for software
5. Testing- checking the solution with desired requirements
6. Maintenance- Repair the defects and add on new features if required.

15. Explain Phases of the waterfall model

Requirement 🡪Analysis 🡪Design 🡪Implementation 🡪Testing 🡪Maintenance

16. Write phases of spiral model

Planning- deciding the objective and constraint

Risk Analysis- analysis of the possible risks and solution if possible or alternate

Engineering- Development of the software

Customer Evaluation- Assessment of the developed software

17. Write agile manifesto principles

1. Individual interaction

2. Working software

3. Customer collaboration

4. Responding to change

18. Explain working methodology of agile model and also write pros and cons.

Agile is combination of iterative and incremental process. It works on team effort and customer satisfaction. In this build are divided into small iteration. At the end of the sprint it is presented to the managements and customer for the assessment.

19. Draw usecase on Online shopping product using COD.

-Open flipkart application in the phone

-Search for the desired product

-Check for all information like delivery on location, discount, ratings etc.

-Click on buy now

- Click on place an order if already logged in with correct address

- Select cod from payment method

- check for all the information before confirming

- confirm the order

- Wait for the confirmation mail/ text.

20. Draw usecase on Online shopping product using payment gateway

-Open amazon application in the phone

-Search for the product and choose product among all the options

-Check for all information like delivery on location, discount, ratings etc.

-Click on buy now

- Click on place an order if already logged in with correct address

- Select credit/debit from payment method for payment from debit card

- confirm the amount and payment method

-Fill out all the information of debit card in the details page

- give confirmation about the card and payment after checking all the details

- enter asked OTP into website and press confirm

- Wait for the confirmation mail/ text.