• What is SDLC

SDLC stands for ‘Software development life cycle’ model. It describes the sequence of phases or steps to develop any software.

• What is agile methodology?

Agile methodology is a combination of iteration and incremental process models with focus On process adaptability and customer satisfaction by rapid delivery of working software product.

• What is SRS

A software requirement specification is a description of a software system to be developed .

• What is oops

Object oriented programming system is a computer programming model that organize software design around data , or objects rather than functions and logic.

• Write Basic Concepts of oops

There are six basic fundamental concept of oops – Object, Class ,Encapsulation, Inheritance, Polymorphism and Abstraction.

• What is object

An object is an instances of a class and to access all the properties of a class except private.

• What is class

Class is a collection of data member(variables) and member function with its behaviour .

• What is encapsulation

Encapsulation is a process of wrapping up of data and behaviour of an object into a single unit .

• What is inheritance

Inheritance is a mechanism in which properties of parent class extends into child class.

• What is polymorphism

Polymorphism refers to ability to take one name having different forms .

• What is RDBMS

The software used to store, manage, query and retreive data stored in a relational database is called a relational database management system (RDBMS).

• What is SQL

SQL ( Structure Query Language ) is a domain specific language used in a programming and designed for managing data used in a relational database management system.

• Write SQL Commands

DDL- Data Definition Language

DML- Data Manipulation Language

DCL-Data Control Language

DQL- Data Query Language

• Draw Usecase on Online book shopping

Write website name

Create an account or log in the I’d

Open Amazon site

Search about books

See the review, published date , writer , price, delivery date etc.

Select particular book according to the choice of person

Select buy now or add to cart button

Confirm delivery address and date

Go to next stage and see payment mode

Select payment mode via cash on delivery or online payment

Select online payment mode via debit card

Insert debit card details ( card no. , expiry date , card holder name , cvv no. )

Submit OTP

Receive successful message from Amazon

Receive message from bank of Debited amount

Receive confirmation through text message and email id

• Draw Usecase on online bill payment system (paytm)

Create an account on paytm or log in

Select on bill payment option

Select customer id and mobile no.

Automatic amount will be seen on that page or write the amount

Click on next page and select the payment option

Select payment mode through paytm

Send OTP on connected mobile no.

Write OTP and click on submit button

See successfully message of payment

Receive bill payment page

Receive message through text and email id

• Write SDLC phases with basic introduction

Requirement collection –collect information of customer’s needs and purpose

Analysis- to check the feasibility of the product

Design – start making design and layout according to the product

Coding- after completing design , developers start coding in the software

Testing – when coding is completed then testing will be started for finding bugs or error in the developed software

Deployment – once the testing process is completed and the errors is rectified then the product is delivered to the customer or deployed in the market

Maintenance – maintenance is necessary for the product if any defect or change or improvement is come up in the future

• Explain Phases of the waterfall model

The waterfall model is a classical model used in system development life cycle to create a system with a liner and sequential approach .

There are six phases of the waterfall model – Requirement collection, analysis, design, coding, testing and maintenance.

• Write phases of spiral model

There are four phases of spiral model – Planning, Risk analysis, Requirement analysis and Customer evaluation .

• Write agile manifesto principles

Individuals and interactions

Working software

Customer collaboration

Responding to change

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

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

Pros of Agile model

Suitable for fixed or changing requirement .

Promote team work and cross training

It is a very realistic approach to software development.

Gives flexibility to developers .

Customer feedback is encouraged .

Cons of Agile model

Change is very costly in this approach .

This approach carries a huge risk with the project until the project is live and customer started to use it.

Not suitable for handling complex dependencies .

Only seniors programmers are capable of taking the kind of decisions during the development process .

• Draw usecase on Online shopping product using COD.

Write website name

Create an account or log in the I’d

Open Amazon site

Search about product ( clothes, accessories , jewellery etc. )

See the review, production time period , features , price, delivery date etc.

Select particular product according to the choice of person

Select buy now or add to cart button

Confirm delivery address and date

Go to next stage and see payment mode

Select payment mode via cash on delivery or online payment

Select online payment mode via cash on delivery

Select on submit button

Receive successful message from Amazon

Receive confirmation through text message and email I’d

Ask for further purchasing product

• Draw usecase on Online shopping product using payment gateway.

Write website name

Create an account or log in the I’d

Open Amazon site

Search about product ( clothes, accessories , jewellery etc. )

See the review, production time period , features , price, delivery date etc.

Select particular product according to the choice of person

Select buy now or add to cart button

Confirm delivery address and date

Go to next stage and see payment mode

Select payment mode via cash on delivery or online payment

Select online payment mode via Google pay

Open Google pay

Automatic see that particular product’s payment page

Enter the amount and pay

Enter the six digit code

Receive successful message from google pay

Select on submit button

Receive successful message from Amazon

Receive confirmation through text message and email I’d

Ask for further purchasing product

• What is join?

A join is an SQL operation performed to establish a connection between two or more database tables based on matching columns, creating a relationship between the tables.

• Write type of joins.

Inner join

Left Jion

Right Join

Full Join