Full Stack Assignment

MODULE:1(SDLC)

1 What is software? What is software engineering

Ans:- Software is collection of information,instruction and data.

Software engineering is the branch of computer science that deals with the design,development,testing, and maintenance of software applications .

2 Explain types of software

Ans:- There are 5 types in software

1. System Software
2. Application Software
3. Programming Software
4. Driver Software
5. Middleware Software

1:- System Software

System software is a computer program that is design to run a computer’s hardware and application programs.

OS-Operating System

Ex. Linux, xbox

2:- Application Software

1. Mobile Application
2. Web Application
3. Desktop Application
4. Mobile Application

The Application run on the mobile platform

-> WhatsApp,Linkedin

2) Web Application

Web Application on the run all web browser

-> Firefox, Microsoft Edge

1. Desktop Application

Desktop application are used to perform some task on PC/Laptop

Microsoft Word, Notepad

3:-Programming Software

-> Programming software is use to communicate between human and machine.

->Turbo c , Bootstrap

1. High Level Programming
2. Low Level Programming

1) High Level Programming

-> Near to human and far to machine

POP- Procedure Oriented Programming

Ex. C , Pascal , Fortran

OOP-Object Oriented Programming

Ex. C++, Java, pearl, .net, c#, F#

A) Logical Programming

Ex. Prolog

B) Functional Programming

Ex. Python, lisp

c) Scripting Language

Ex. Java Script, Node js ,PHP, react, angular

2) Low Level Programming

-> Near to machine and far to human

a) Assembly Language

b) Machine Language

4:- Driver Software

-> Driver Software every device connected to a computer needs at least one device driver to function

Ex. Audio Driver, Video Driver, Network Driver

5:- Middleware Software

-> Middle ware is software lies between an operating system and the application running on it

Ex. Database Middleware application server

3 What is SDLC? Explain each phase of SDLC

Ans:-

SDLC SOFTWARE DEVELOPMENT LIFE CYCLE

1:- PLANNING

The first phase of the sdlc is the project planning stage where you are gathering business requirements from your client or stakeholders.

2:- ANALYSIS

The SDLC is usually in use to the Analysis ,Planning

Architecture Design ,Development ,Testing and Maintenance

3:-DESIGN

Design Support team to the design to software UX UI designer

4:- IMPLEMENTATION

This phase is initiated after the system has been tested and accepted by the user.

5:- TESTING&INTEGRATION

Testing is to a group of software to the testing in individual components of the software are testing group

6:- MAINTENANCE

The maintaince phase of the software development life-

cycle is a users support team to the upgrad to software

4 What is DFD? Crate a DFD diagram on Flipkart

Ans:-DFD Stand for Data Flow Diagram use to a graphical representation of flow of data inside application.

DFD elements

External Entity

Admin

Process input output

Data Flow

Data Store 

bill report

Kitchen

Customer

Manager

oder food oder

Kitechen

Customer

bill

inventory

details

Oder

inventory

oder details

report

Manager

5 What is Flow Chart? Create a flowchart to make addition of two numbers

Ans:-Flow chart is use to show algorithm or process give step solution to the problem.

1 start Or End

2Process

Res=num1+num2

3 input or output

Int

Num1,Num2

If

Num1>num2

4 Decision Making

5 Flow lines

Create a flowchart to make addition of two numbers

Print Sum

Sum=Number1+Number2

Input Number 1, Number2

6 What is Use case Diagram? Create a use-case on bill payment on paytm

Ans:-

Use case diagram model the behavior of a system

Used to illustrate the functional requirements of the system and its interaction with external agents (actors)

SYSTEM

VISITOR

ADMIN

REGISTERED USER

SERVICE-PROVIDERR