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

SDLC the design phase is a stage where software developers define the techincal details of the product.

4:- IMPLEMENTATION

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

5:- TESTING&INTEGRATION

Integration testing is an important step in the SDLC because ithelps to ensure that the different components of a software system work together effectively and efficiently to deliver to deliver the desired functionality.

6:- MAINTENANCE

The maintaince phase of the software development life-cycle is where the software is monitored to ensure it continues to function as it was designed to,and repairs or upgrad are performed as needed