Assignment

Module 1[Software]

B.1 What is software?

A. Software is set of programs or instructions used to operate

Computer and complete specific task.

B.2 Types of Software?

A. There are two types of software:

1) System software

The software which helps users to interact with the computer like operating system ex. windows, kali Linux, macOS.

2) Application software

Application software is designed to help the user with the specific task ex. word, excel, power point.

B3. What is Software Development Methodology?

- Requirements Collection/Gathering
- Analysis
- Design
- Implementation
- Testing
- Maintenance

B4. What is Design Pattern?

A. In software development, a design pattern is a written document that describes a general solution to a design problem that recurs repeatedly in many projects.

Intermediate

1.What is the difference between system software and application software?

System software	Application software
System software maintain the system resources and give the path the application resources	Application software is built for specific tasks.
Low level languages are used to write system software.	While high level languages are used to write application software.
It's a general purpose software.	While it's a specific purpose software
Without system software system can't run.	While without application software system always run.
Example of system software are operation system, etc.	Example of application software are photoshop, vlc player, etc.

2.Explain each phase process of SDLC?

A.

1) Requirement Gathering

Requirements gathering is the process of identifying your project's exact requirements from start to finish.

2) Analysis

The analysis phase also gathers business requirements and identifies any potential risks.

3) Design

The design phase is a stage where software developers define the technical details of the product. Depending on the project, these details can include screen designs, database, sketches, system interfaces, and prototypes. Clients use these details to make final product design choices.

4)Implementation

Implementation phase is initiated after the system has been tested and accepted by the user. In this phase, the system is installed to support the intended business functions.
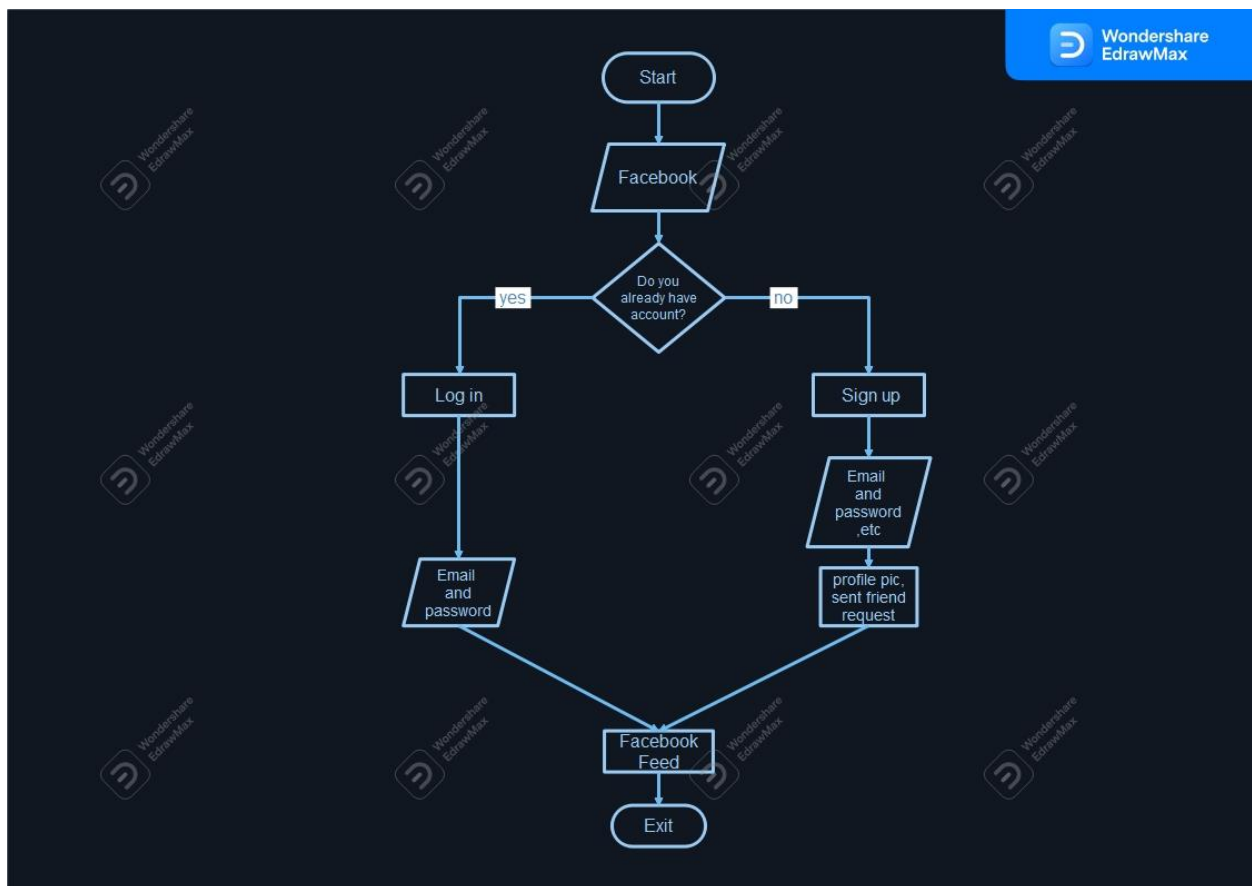
5)Testing

The testing phase of SDLC is where you focus on investigation and discovery. During the testing phase, developers find out whether their code and programming work according to customer requirements.
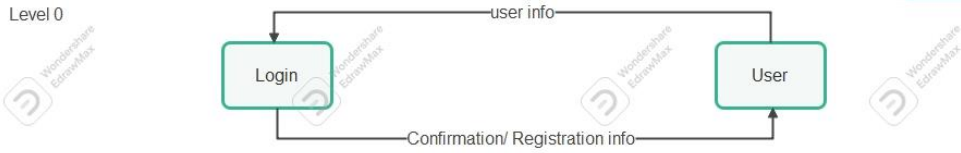
6)Maintenance

The maintenance phase of the SDLC occurs after the product is in full operation. Maintenance of software can include software upgrades, repairs, and fixes of the software if it breaks. Software applications often need to be upgraded or integrated with new systems the customer deploys
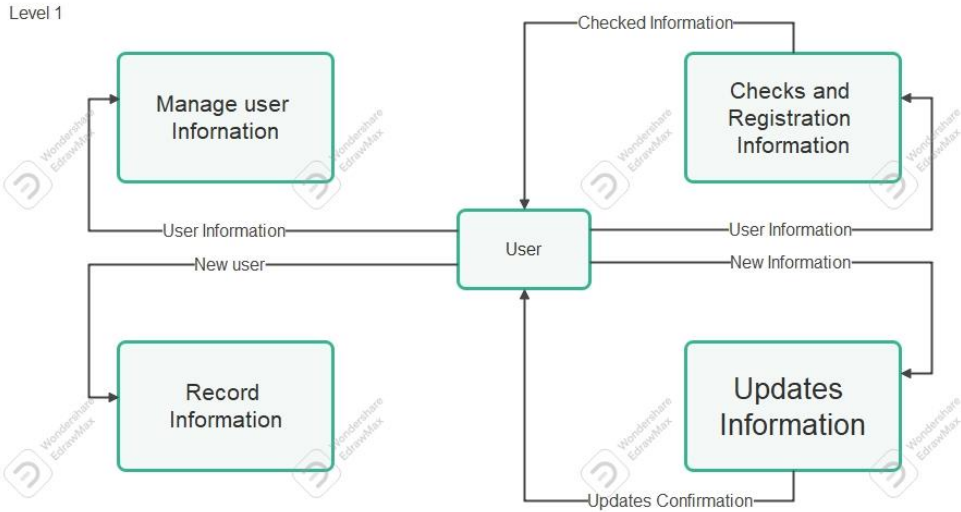
3.Create DFD, Flow chart of login process of facebook.com?

Level 0

Login

User

user info

Confirmation/ Registration info

Level 1

Manage user Information

Checks and Registration Information

Checked Information

User Information

User Information

New user

User

New Information

Record Information

Updates Information

Updates Confirmation

Level 2

Manage user Information

Checks and Registration Information

Checked Information

User Database

Data Confirmation

User Information

User Information

New user

User

New Information

Record Information

Update Confirmation

Updates Information

Log/Transaction Database

Updates Confirmation