MODULE-1

1. WHAT IS SOFTWARE

WHAT IS SOFTWARE ENGINEERING?

WHAT IS SOFTWARE?

. Software is also called program.

. it is a the language of computer.

.software is a set of instruction of data and information.

. software ,instruction that tell a computer what to do and how to do...

. the main two catagories of software : application software and system software .

other types of software is PROGRAMMING SOFTWARE.

--WHAT IS SOFTWARE ENGINEERING?

.SOFTWARE:IT'S a set of instructions of data...

.ENGINEERING: process of designing and building something that make sure particular purpose...

.SOFTEARE ENGEENERING: a process of analyzing user requirements and then designing ,building

and testing software application which will satisfy those requirements.

.The most popular types of software engineering are

FRONT-END ENGINEER,BACK-END ENGINEER,FULL STACK ENGINEER.

2.EXPLAIN TYPES OF SOFTWARE.

1) System Software

2) Application software

3) Programming language

1) system s/w:

-provides the basis functions for computer usage and helps to run the computer usage and

helps to run the computer hardware and system.

-basically OS coordinates the different hardware components of a computer.

-EX- Linux ,window MACOS ,Android ,IOS

2)Application s/w:

-is the general designation of computer programs for performing user tasks.

- types of application s/w;

1)mobile app:

-application that run on mobile.

-EX- Instagram , Facebook ,etc..

2) DESKTOP APP:

-that run stand-alone in a desktop or laptop computer.

-EX-outlook for Email, Google chrome , Mozilla are the web browser.

3) WEB APP:

-that run on a web browser

-EX- Google.com , facebook.com ,etc..

3) PROGRAMMING S/W:

-IS the process of designing , writing ,testing and maintaining the

source code of computer programs.

-the purpose of programming is to create a program that exhibits a

Certain desired behavior.

3) WHAT IS SDLC? EXPLAIN EACH PHASE OF SDLC.

-SDLC is a structure imposed on the development of a software product that defines the

process for planning, implementation, testing, documentation, deployment, and ongoing

maintenance and support.

There are a number of different development models.

Phase of SDLC:

1. Requirements Collection/Gathering -Establish Customer Needs

2. Analysis - Model and Specify the requirements- ―What‖

3. Design - Model And Specify a Solution – ―Why‖

4. Implementation - Construct a Solution in Software

5. Testing - Validate the solution against the requirements

6. Maintenance - Repair defects and adapt the solution to the new requirements.

4) what is DFD? Create a DFD diagram on Flipcart .

-DFD-Data Flow Diagram.

-DFD is a traditional way to visualize the information flows within a

System.

-the purpose of a DFD is to show the scope and boundaries of a

System as a whole.

Zero Level DFD- FLIPKART

PAYMENT

MANAGEMENT

SYSTEM USER

MANAGEMENT

ORDER

MANAGEMENT

SHOPPING

MANAGEMENT

LOGIN

MANAGEMENT

CUSTOMER

MANAGEMENT

FIRST LEVEL DFD - FLIPKART

GENERATE SYSTEM

USER REPORT

GENERATE

SHOPPING REPORT

SYSTEM USER

MANAGEMENT

LOGIN

MANAGEMENT

SHIPMENT

MANAGEMENT

SHOPPING

MANAGEMENT

CHECK USER

LOGIN DETAILS

GENERATE

SHIPMENT REPORT

GENNERATE

PRODUCT REPORT

GENERATE SHOPPING

CART REPORT

PRODUCT

MANAGEMENT

SHOPPING KART

MANAGEMENT

ADMIN

MANAGE PRODUCT DETAILS

MANAGE SHOPPING CART DETAILS

MANAGE CUSTOMER DETAILS

MANAGE SHIPMENT DETAILS

MANAGE PAYMENT DETAILS

MANAGE ORDER DETAILS

MANAGE REPORT

SECOND LEVEL DFD - FLIPKART

MANAGE SYSTEM ADMINS

MANAGE ROLES OF USER

MANAGE USER PERMISSION

5) What is flow chart? Create a flow chart to make addition of two numbers.

-A flow chart is a graphical or symbolic representation of a process .

-the flow chart symbols are linked together with arrows.

Take the two numbers 1&2

stop

print

Sum=num1+num2

start

6) what is use case diagram ?create a use case on bill payment on paytm.

-A use case diagram is a graphical depiction of a users possible instructions with a

System.

-use case diagram describe the high level functions and diagram draw.

SEARCH CUSTOMERS

MANAGE CONSUPTIONS

CREATE BILL

MANAGE UNITS

COLLECT PAYMENTS

MANAGE CONNECTIONS

CHANGE ACCOUNT PASSWORD

UPDATE MY PROFILE

LOGIN AND LOGOUT FROM SYSTEM

CHECK BILLS

MANAGE READING

MAKE PAYMENT

MANAGE BILLS

MANAGE USERS ND FULL APPLICATION

CHECK BILL SUMMARY