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Course Name: - Software testing (19th May ST 8:30AM Batch)

Subject: - Module 1 Assignment

Que. 1 - What is SDLC?

Ans. SDLC (Software Development Life Cycle}.

Definition - SDLC is structure imposed on the development of a softwer product that defines the process of planning implimentiom testing documentation deployment maintainance and ongoing support.

Que. 2 - What is Agile Methodology?

Ans. Agile sdlc model is combination of itrateve and incremental process model with focus on process adaptifibilty and customer satisfaction rapid delivary of softwer product..

Que. 3 - What is SRS?

Ans. SRS means Software Requirement Specification

Definition: - SRS is the complete description of the beviour of the system to developed,.

Que. 4 - What is OOPS?

Ans. OOPS is object oriented programming system.

Que. 5 - Write basic concepts of oops.

Ans. There are 6 basic concrpt of oops..

1,class 2.object 3,Emcaptulation 4.inheritance 5,polymorphisam 6.abstraction

Que. 6 - What is Object?

Ans. Object is an instance of class to a create the memory for that class to access the all properties of class except private,

Que. 7 - What is class?

Ans. Class is the collacton data member(variable),member function it is beheviour. .

Que. 8 - What is Encapsulation?

Ans. Encapsulation is the wrapping of data single unit.

Que. 9 - What is Inheritance?

Ans. Inheritance is the property of parents class is derived to child class..

Que. 10 - What is Polymorphism?

Ans. Polymorphisam is abilty to take one name having deffrant forms.

Que. 11 - What is RDBMS?

Ans. RDBMS means reletion database management system.

Definition: - RDBMS is the type of DBMS that store a data in structure formate using raws and colums, making it easy to locate and access data in relation to another piece data in the database.

Que. 12 – What is SQL?

Ans. SQL means structure query language..

Definition: -) SQL is domain specific language it is used in programmimg and desigining for managing data held in dbms
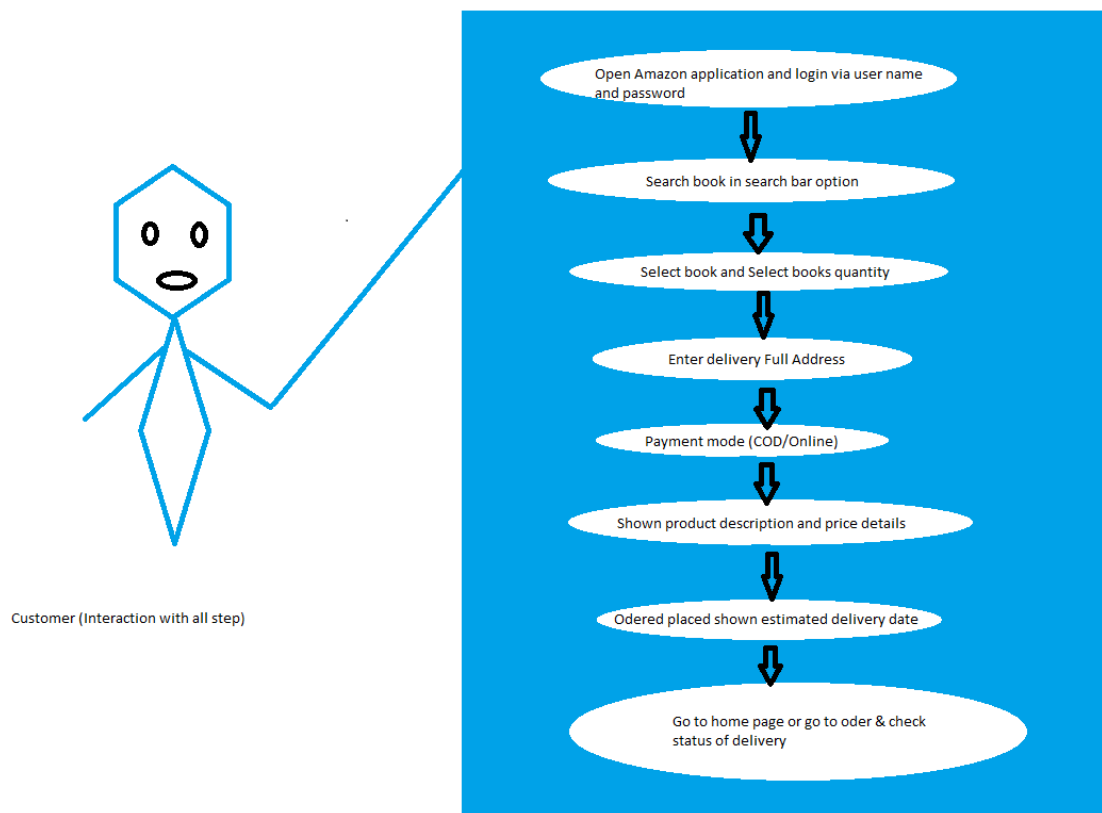
Ans. There are four types of command.

1. DDL _ Data Dafination Language

2. DML _ Data Manupulation Language

3. DQL _ Data Query language;

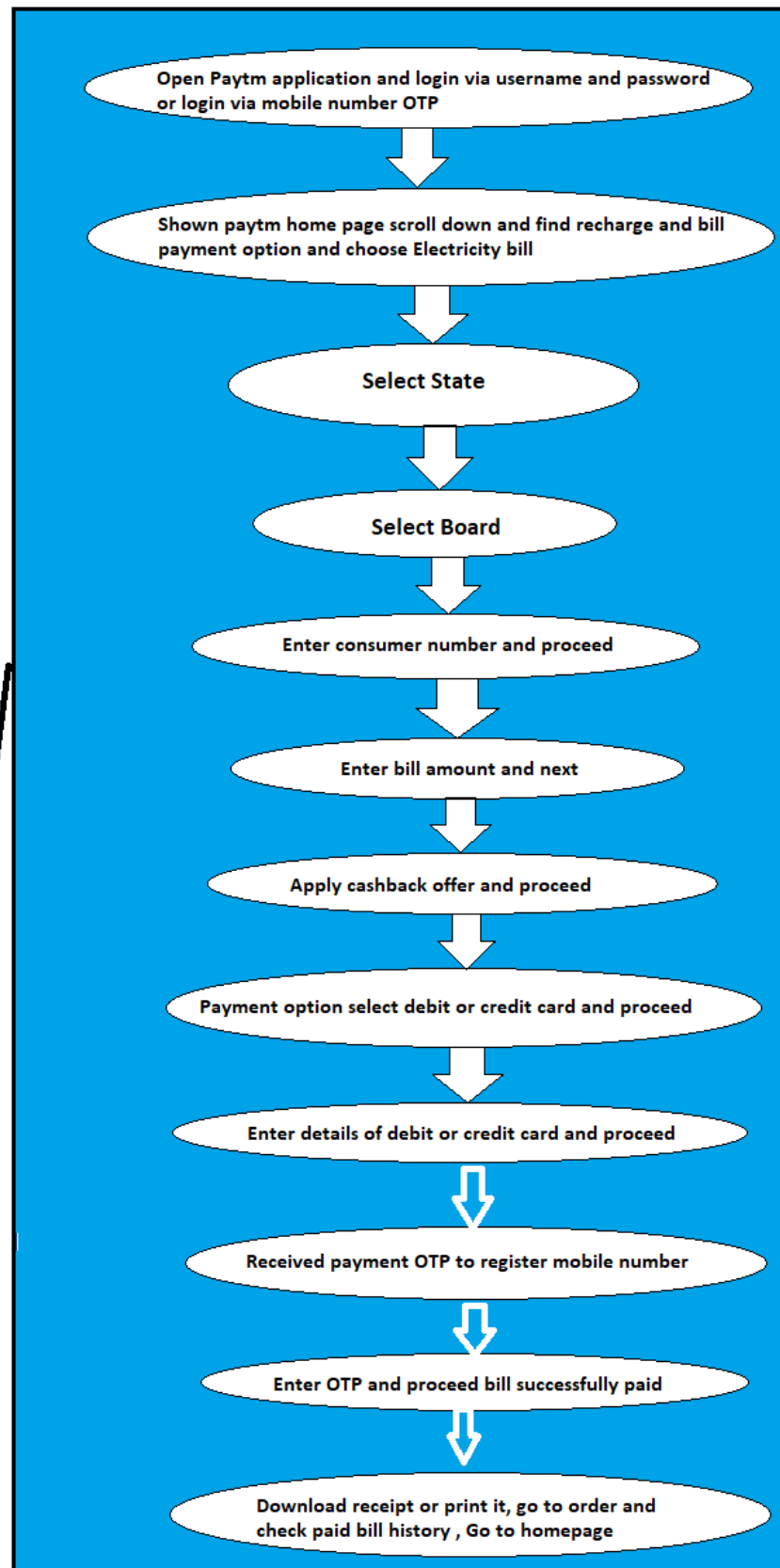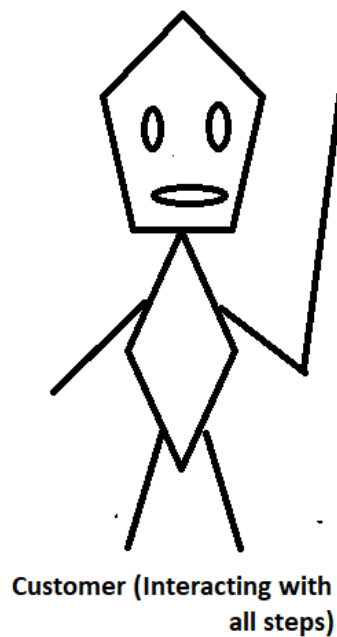4. DCL/TCL _ Data/transaction control language.

Ans. Below is the use case for online book shopping via amazon application.

Que. 15 – Draw Use case on online bill payment system (Paytm).

Ans. Below is the use case of online bill payment system through Paytm.

Open Paytm application and login via username and password or login via mobile number OTP

Shown paytm home page scroll down and find recharge and bill payment option and choose Electricity bill

Select State

Select Board

Enter consumer number and proceed

Enter bill amount and next

Apply cashback offer and proceed

Payment option select debit or credit card and proceed

Enter details of debit or credit card and proceed

Received payment OTP to register mobile number

Enter OTP and proceed bill successfully paid

Download receipt or print it, go to order and check paid bill history , Go to homepage

Customer (Interacting with all steps)

Ans. There are six type of phases and follow basic description

1. Requirements collection - Establish the customer needs.

    - There are three types of problem can arise in requirements collection.

        1) Lack of clarity- Precise and easy to read

        2) Requirement confusion- Functional and non-functional

        3) Requirements Amalgamation- Several different requirements may be expressed together.

2. Analysis: - Model and specify the requirements

3. Design: - Model and specify the solution

4. Implementation: - Construct a solution in the software

5. Testing: - Validate software against the customer requirements

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

    ➢ Maintenance is the changing the system after it has been deployed.

    ➢ There are three types of maintenance.

        1) Corrective Maintenance - Identifying and repair the defect

        2) Adaptive Maintenance – Adapting existing solution to the new platform

        3) Perfective Maintenance – Implementing the new requirements.

Que. 17 – Explain phases of the waterfall model.

Ans. Waterfall model is also known as Classical software cycle.

Definition: - Waterfall model it to developed software as a step by step between various development phases.

   ➢ Waterfall model is unrealistic .

   ➢ Requirements may be "Frozen".

➢ Requirements is "Validate too late".

1. Requirements collection

2. Analysis

3. Design

4. Implementation

5. Testing

6. Maintenance

Que. 18 – Write phases of spiral model.

Ans. In Bohem's Spiral Model main four types of phases.

1. Planning

2. Risk Analysis

3. Engineering

4. Customer Evaluation.

Que. 19 – Write Agile manifesto principles.

Ans. four types of agile manifesto principles.

1. Individual and interaction

2. Working software

3. Customer collaboration

4. Responding to change.

Que. 20 – What is join?

Ans. Join is used to combine rows from two or more tables, based on related columns between them.

Ans. There are four types of Joins.

1. Inner Join

2. Left Join

3. Right Join

4. Full Join

Ans. Definition: - Agile SDLC model is combination of iterative and incremental process model with focus on process of adaptability and customer satisfaction by rapid delivery of working software product.

➢ An agile model breaks the product into small incremental builds.

Agile manifesto Principle: - 1. Individual and interaction, 2. Working software, 3. Customer collaboration, 4. Responding to change

Pros: -

➢ An agile is a very realistic approach in software industry.

➢ Promotes team works and cross training

➢ Resources requirements are minimum.

➢ No planning required.

➢ Easy to manage.

➢ Gives flexibility to developers

Cons: -
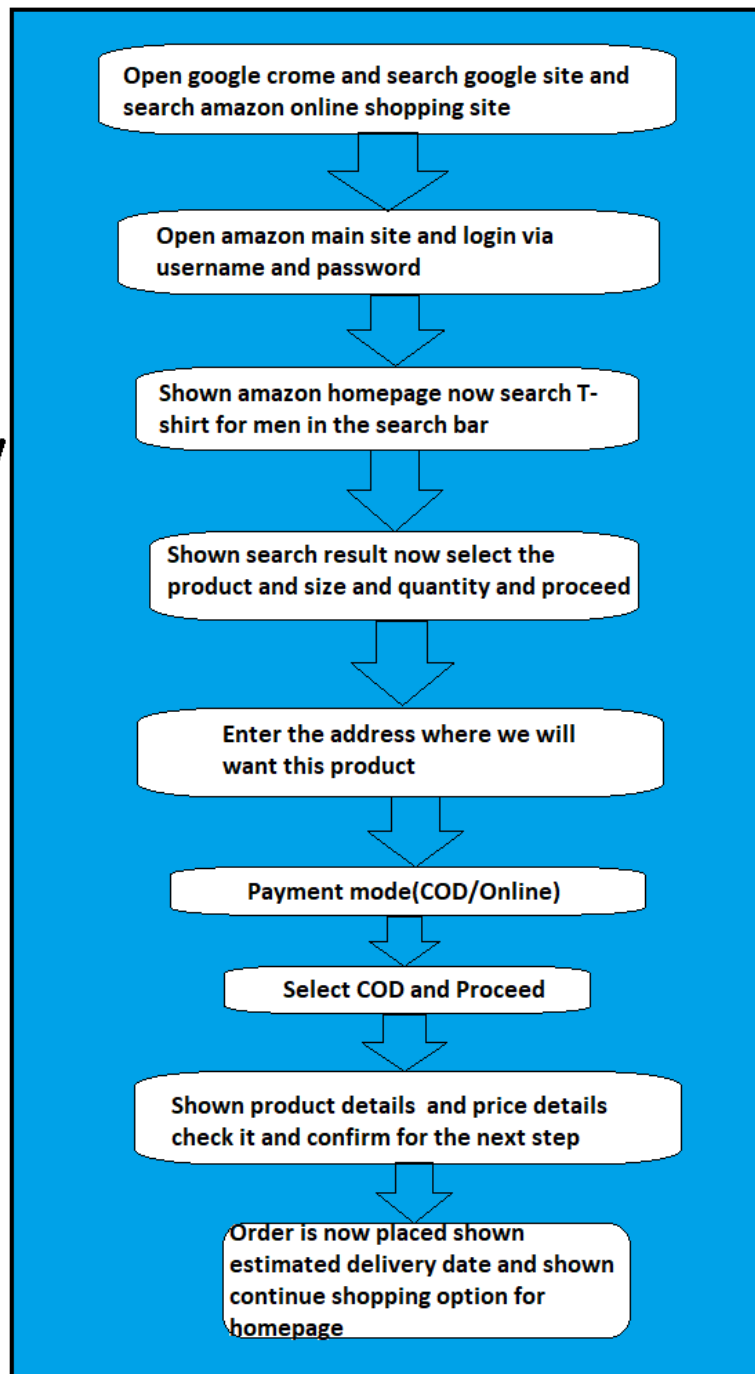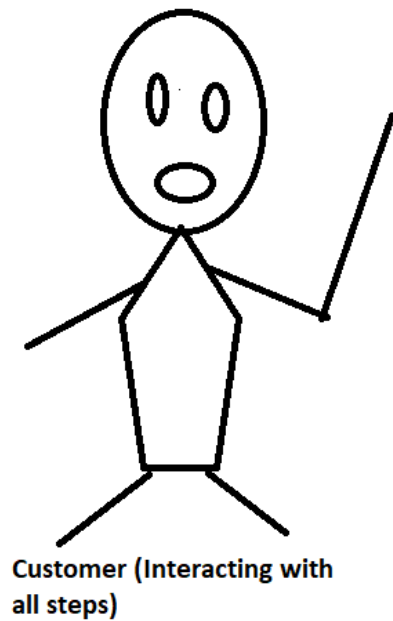
➢ Not suitable for handling complex dependencies.

➢ Risk of maintainability, sustainability, extensibility.

➢ Heavily depends on customer dependency.

➢ Highly depends on the individual dependency.

Que. 23 – Draw use case on online shopping product using COD.
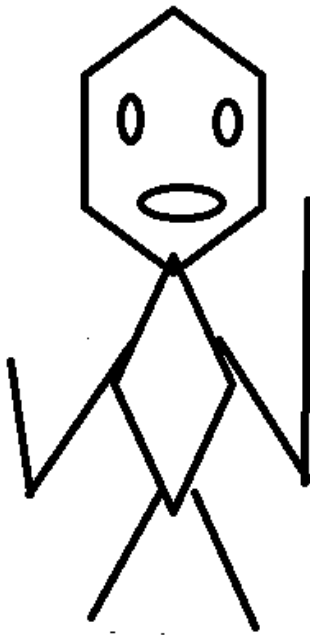
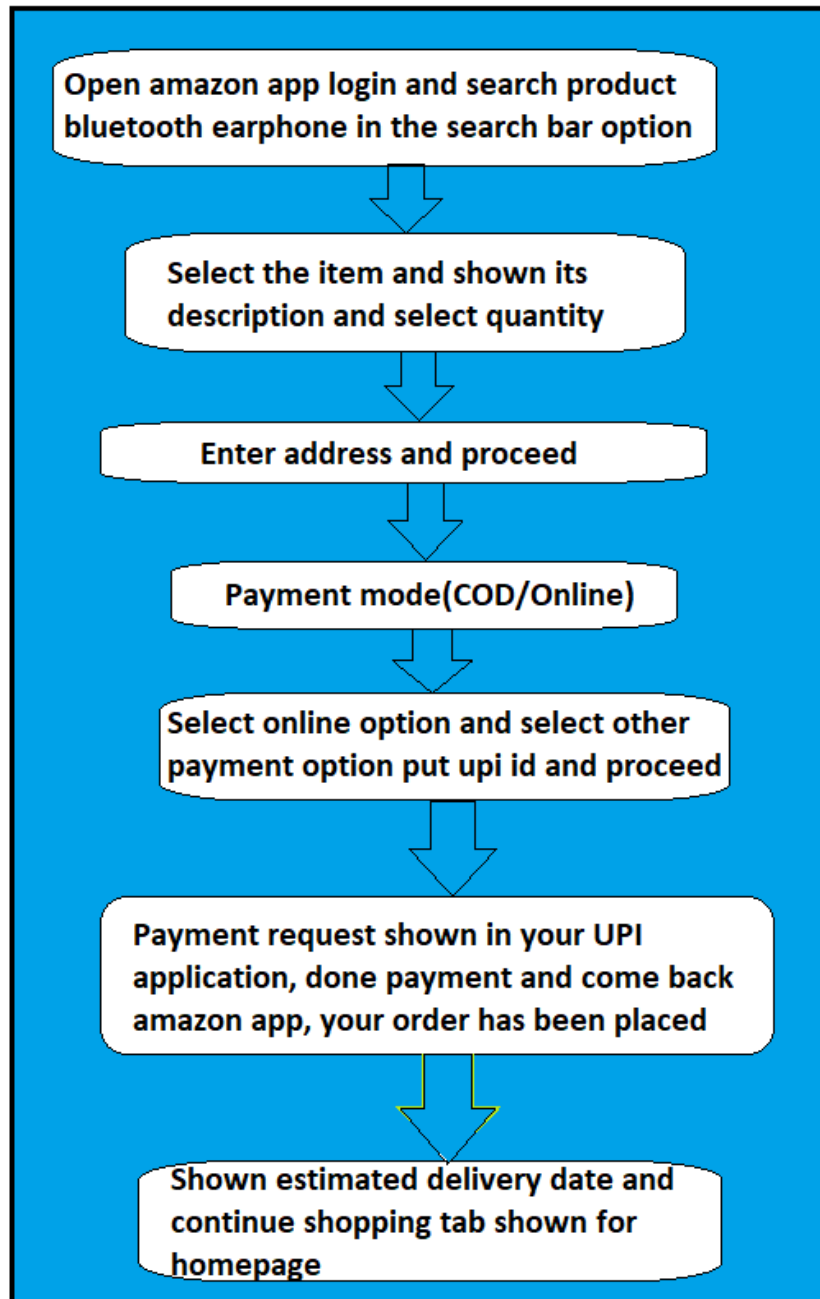**Ans.** Below is the use case of online shopping product using COD.

Que. 24 – Draw use case on online shopping product using payment gateway.

Ans. Below is the use case of online shopping product using payment gateway.

Open amazon app login and search product bluetooth earphone in the search bar option

Select the item and shown its description and select quantity

Enter address and proceed

Payment mode(COD/Online)

Select online option and select other payment option put upi id and proceed

Payment request shown in your UPI application, done payment and come back amazon app, your order has been placed

Shown estimated delivery date and continue shopping tab shown for homepage

Customer(Interacting with all steps)

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