Software Engineering Assignment

Module - 1

(Overview Of IT Industry)

Q1.What is software? What is software engineering?

Ans:- Software is a set of instructions that tell a computer how to perform specific tasks. Software Engineering is a branch of computer science the process of developing, testing and deploying computer application to solve the real world problems.

Q2. Explain types of software.

Ans:- The various categories of software below are the most common software.

1. **System Software :-**

These software programs are designed to run a computers application programs and hardware. System software coordinates the activities and functions of the hardware and software.

2.**Application Software** :-

Application Software is a computer software package that perform a specific function for a user.

3. **Device Software :–**

Driver software is also known as device driver, this software is often considered a type of system software. Device drivers control the devices and peripherals connected to a computer, helping them to perform their specific tasks.

Q3. What is SDLC? Explain each phase of SDLC.

Ans:- The Software Development Life Cycle is a structured process used for developing software applications.

1. Analysis
2. Planning
3. Designing
4. Development / Implementation
5. Deploy / Testing
6. Maintain

1.Analysis :–

Analysis seeks to identify and record the precise requirement of the final user.

2.Planning :–

Planning involve defining the software purpose and scope.

3.Designing :-

The Design is all about building the framework. The development team is responsible for software engineering and outlines the software functionality and aesthetic.

4.Development / Implementation :-

Development aims to develop software that is functional, efficient, and user-friendly.

5.Deploy / Testing :–

Testing involves a thorough examination of the software for any bugs or glitches. After crafting a product with precision, it’s time to Deploy it to the users by pushing to the production environment.

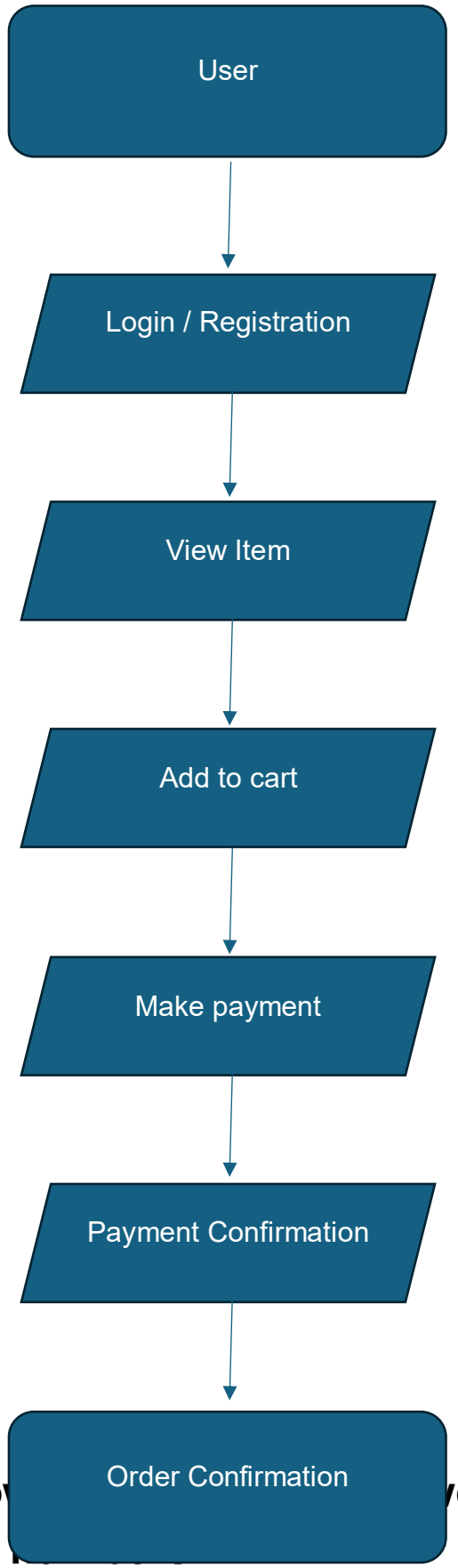
6. Maintain :-

This adaptation involves responding to user feedback, resolving unexpected issues, and upgrading the software based on users’ evolving requirements.

4. What is DFD? Create a DFD diagram on Flipkart.

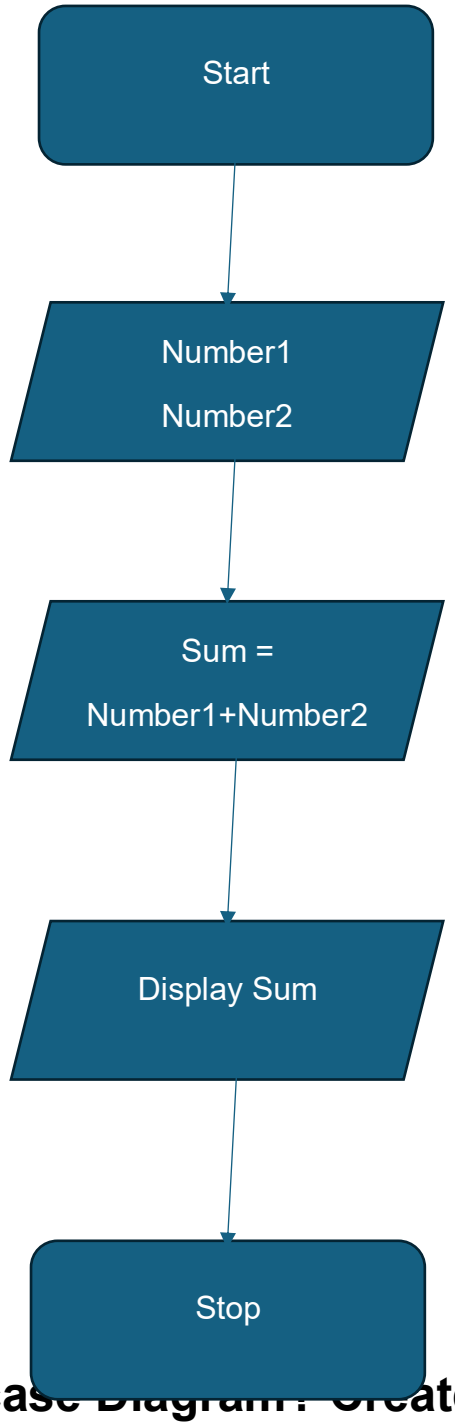
Ans:- Data Flow Diagram is a graphical representation of the flow of data within a system.

DFD diagram :-



Q5. What is Flo ychart to make addition of two

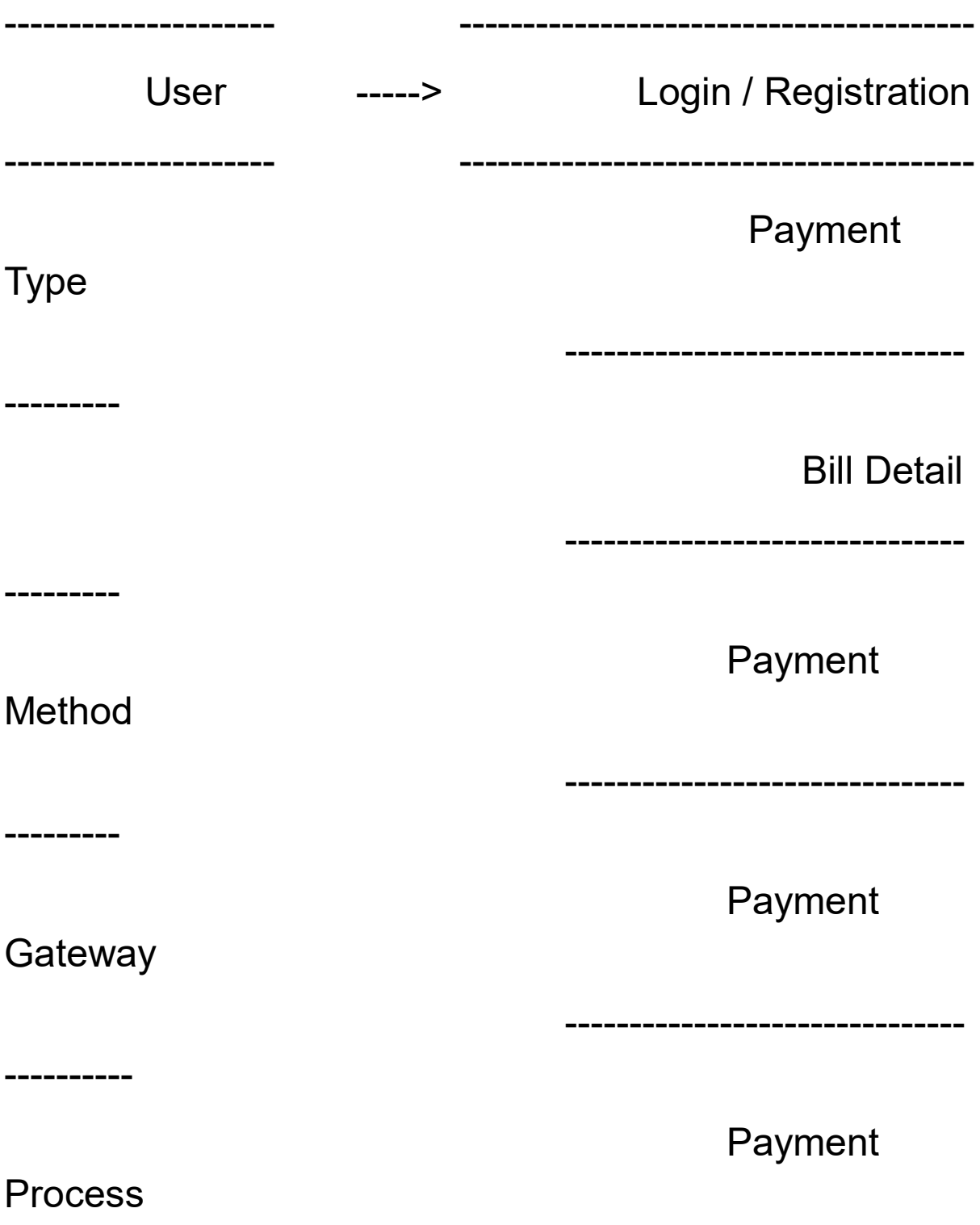
Ans:- A Flow chart is a diagram that shows the steps and sequences of a process or workflow.



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

Ans:- A Use Case Diagram is a vital tool in system design, it provides a visual representation of how users interact with a system.

Case Diagram:-



Payment

Confirmation