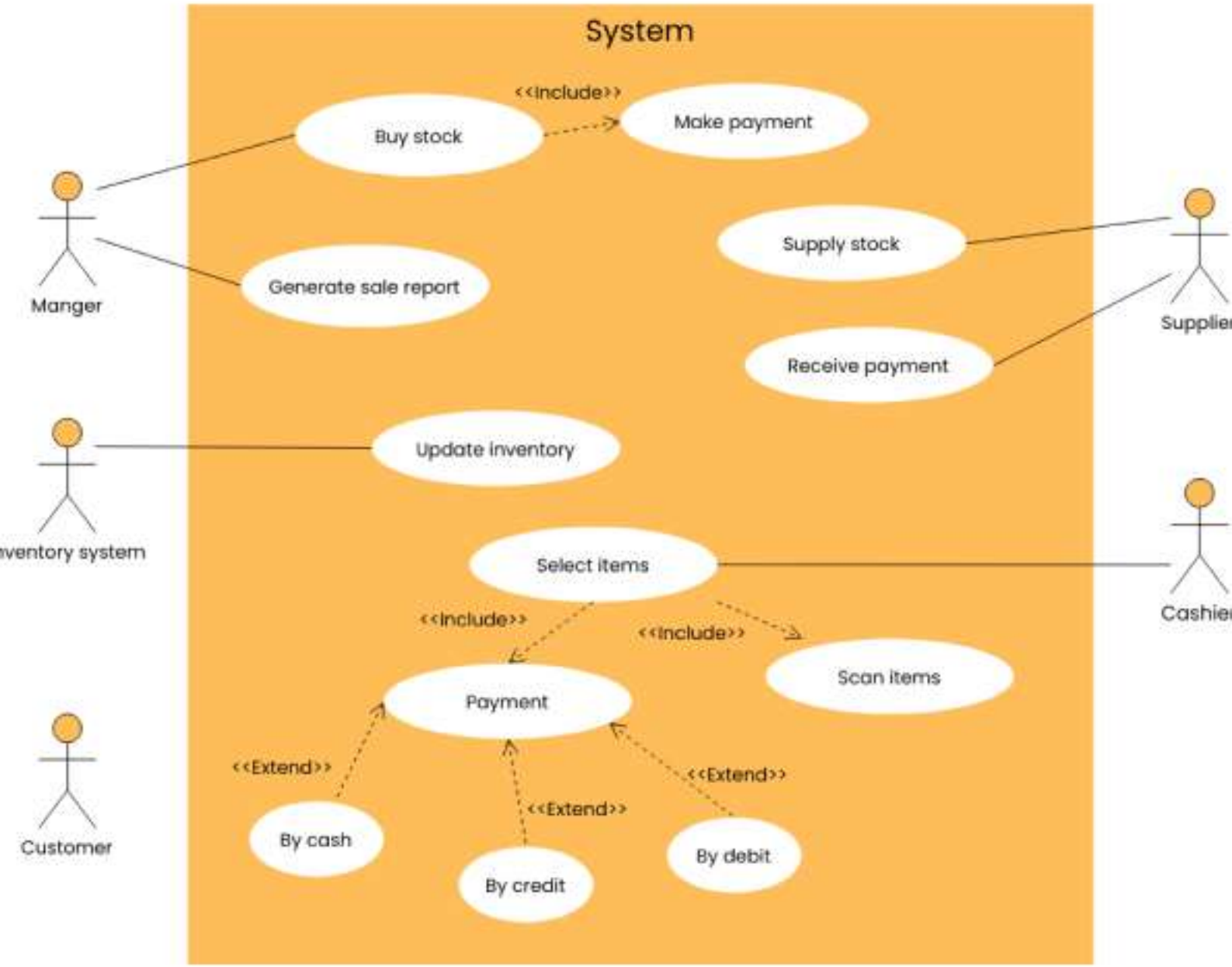
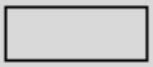
6. What is Use case Diagram? Create a use-case on bill payment on paytm.

A use case diagram is a graphical depiction of a user's possible interactions with a system. A use case diagram shows various use cases and different types of users the system has and will often be accompanied by other types of diagrams as well. The use cases are represented by either circles or ellipses. The actors are often shown as stick figures.



Data flow diagram symbol

Symbol	Description
	**Data Flow** : Data flow are pipelines through the packets of information flow.
	**Process** : A Process or task performed by the system.
	**Entity** : Entity are object of the system. A source or destination data of a system.
	Data Store : A place where data to be stored.

5. What is Flow chart? Create a flowchart to make addition of two numbers

A flow chart is a graphical or symbolic representation of a process. Each step in the process is represented by a different symbol and contains a short description of the process step. The flow chart symbols are linked together with arrows showing the process flow direction.

Step 1: Start
Step 2: Declare variables num1, num2 and sum.
Step 3: Read values for num1, num2.
Step 4: Add num1 and num2 and assign the result to a variable sum.
Step 5: Display sum
Step 6: Stop

Application software like a word processor regularly directs the operating system to load and save files from and to the hard drive. When you are working on a file, it is saved temporarily in the RAM. It is only when you choose to save it that it is written to the hard drive.
This is why, if the computer crashes while you're working on a file, you may lose any changes you didn't save. Data stored in the RAM is volatile. The data is lost when the RAM loses power.

3. What is SDLC? Explain each phase of SDLC

The Software Development Life Cycle (SDLC) refers to a methodology with clearly defined processes for creating high-quality software. in detail, the SDLC methodology focuses on the following phases of software development:

- Requirement analysis
- Planning
- Software design such as architectural design
- Software development
- Testing
- Deployment

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

DFD is the abbreviation for Data Flow Diagram. The flow of data of a system or a process is represented by DFD. It also gives insight into the inputs and outputs of each entity and the process itself. DFD does not have control flow and no loops or decision rules are present. Specific operations depending on the type of data can be explained by a flowchart.

A data flow diagram is a graphical view of how data is processed in a system in terms of input and output.
The Data flow diagram (DFD) contains some symbol for drawing the data flow diagram.

1. What is software? What is software engineering?

Software engineering has two parts: software and engineering.Software is a collection of codes, documents, and triggers that does a specific job and fills a specific requirement.Engineering is the development of products using best practices, principles, and methods.

2. Explain types of software

1. System software
2. Utility software
3. Application software

System software : If you think of software as being in layers, the system software is the bottom layer: it sits between the hardware and the application software. Operating systems like Windows, macOS, Android and iOS are examples of system software. Operating systems are loaded into RAM when the device starts up, and have access to the hard drive.

Utility software

Utility software is part of the system software and performs specific tasks to keep the computer running. Utility software is always running in the background.
Examples of utility software are security and optimisation programs.
Security programs include anti-virus software that scans and removes viruses. Most computers will include some sort of anti-virus software, but you can add your own.
Optimisation programs can include tools for system clean-up, disk defragmentation, and file compression. These tools are typically installed as part of the operating system. They have access to the hard drive to keep it tidy.

Application software

This is everything else! Anything that is not an operating system or a utility is an application or app. So a word processor, spreadsheet, web browser, and graphics software are all examples of application software, and they can do many specific tasks.
You can remove and add applications on your computer using the operating system.