

SE_ASSIGNMENT_M1

Overview of IT

1. What is software? What is software engineering?

- The software is basically a set of instructions or commands that tell a computer what to do.
- For Example: clock, Microsoft word, calendar.
- Software engineering: The software engineering is a designing, developing, testing and maintaining software system.

2. Explain type of software.

- The main is a two software. 1) **Application software**
2) **System software**

- 1. Application software:

Application software that's develops in computer by developer that's call application software.
e.g. Whatsapp, face book, word, excel.

- 2. System software:

System software is a computer program designed to provide a platform of running application software.
e.g. clock, notepad.

- 3. Embedded software:

Embedded software is hardware device, often controlling and device functionality and behaviour.

- 4. Programming software:

SE_ASSIGNMENT_M1

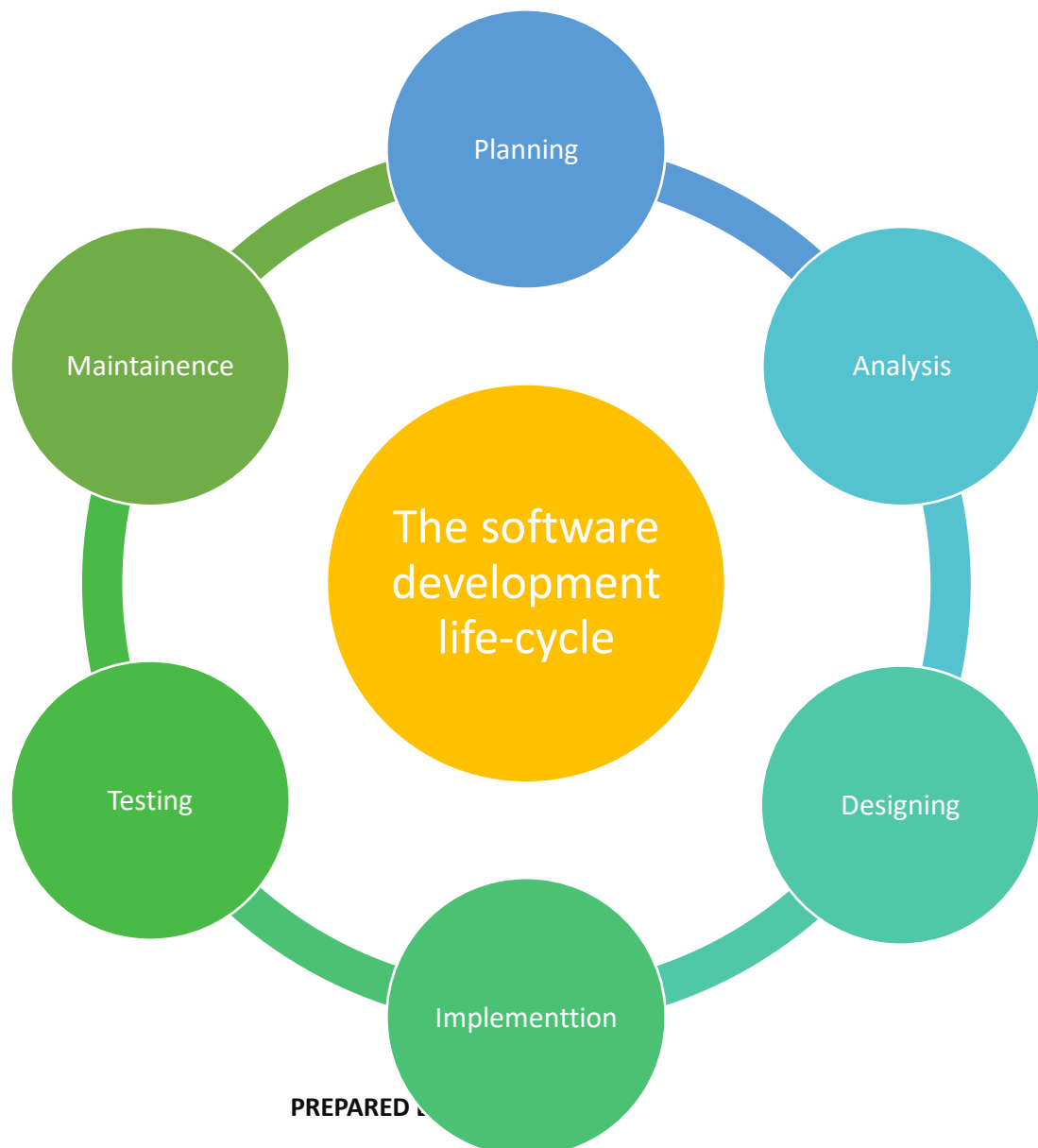
Programming software is high-level programming language into machine code to the execute by computer.

➤ 5. Middleware software:

Middleware software is line and operating system and the application running.

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

- The SDLC typically includes such as planning, analysis, design, implementation, testing, developer, and maintenance.
- Software Development Life Cycle:



SE_ASSIGNMENT_M1

1. Planning:

The first phase of the SDLC is the project planning stage where we are gathering Business requirements from your client.

2. Analysis:

The second phase of the SDLC is the project scope, objective, requirements, and constraints are defined.

3. Designing:

The third phase of the SDLC is the system architecture and detail design are created based on the requirements in the previous.

4. Implementation:

The implementation translates the design specification into actual code. Developer tests the code according to the design document and coding.

5. Testing:

The testing phase is dedicated to verifying that the software meets the specified requirements and works as intended.

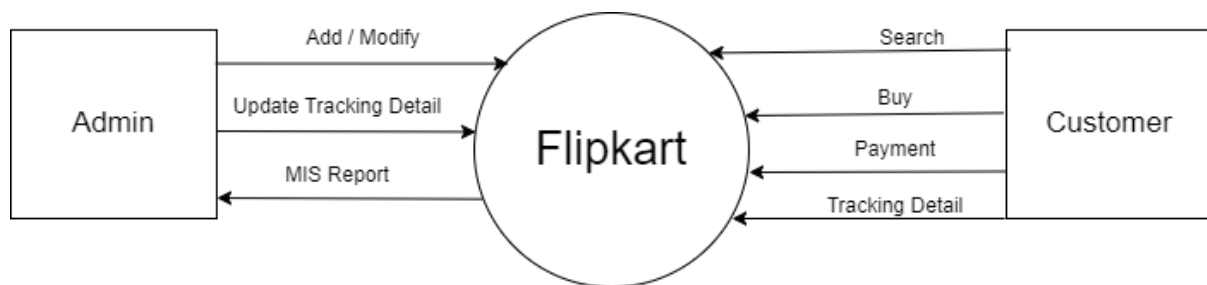
6. Maintenance:

SE_ASSIGNMENT_M1

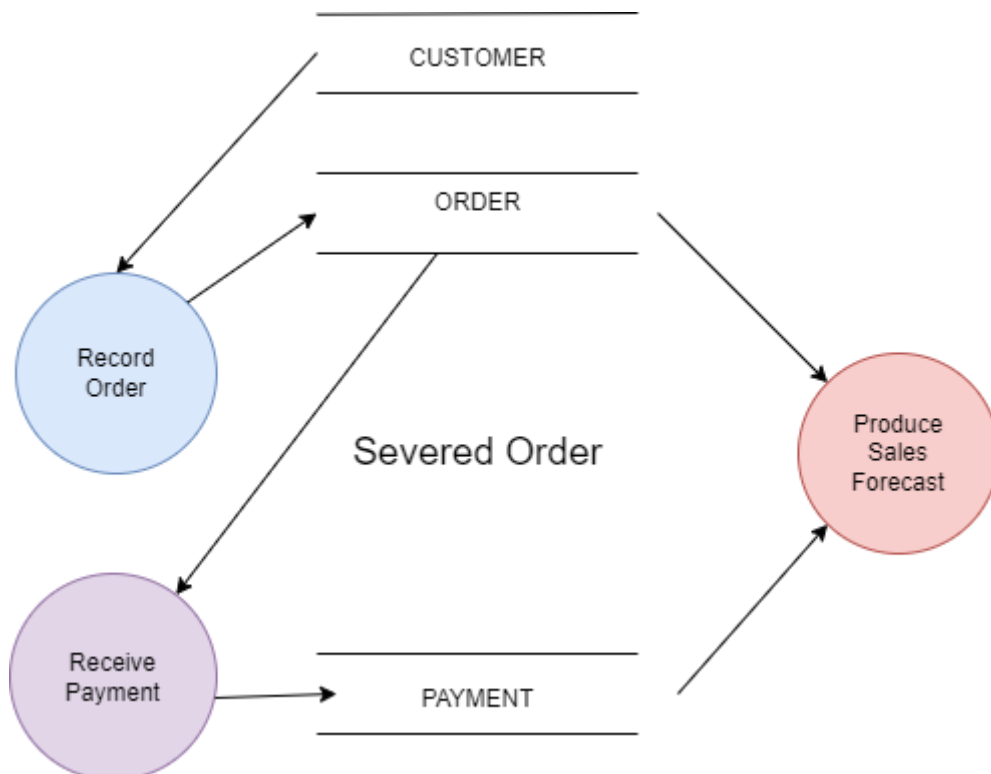
Maintenance that the software remains functional and up-to-date throughout its lifecycle.

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

- A data-flow diagram is a way of representing a flow of data through a process or a system.
- FLIPKART-DFD:



Level 0 DFD diagram of flip cart



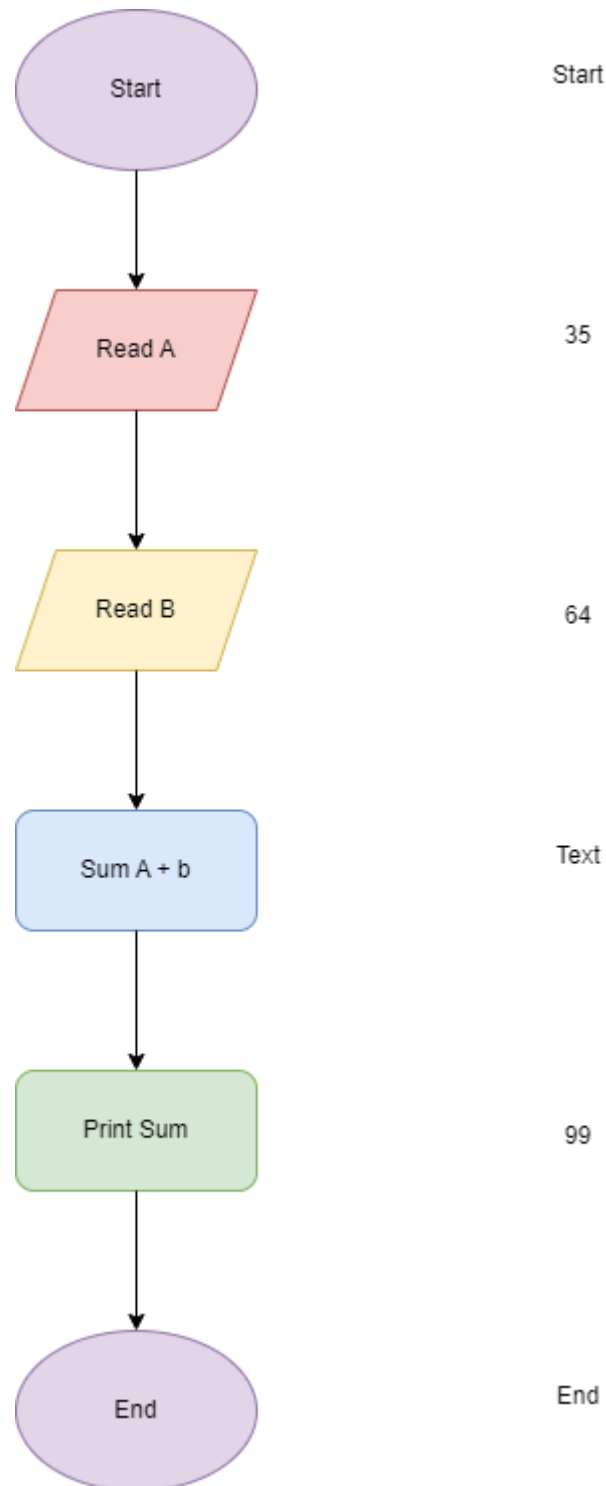
SE_ASSIGNMENT_M1

Level 1 DFD diagram of flip cart

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

- A flowchart is a diagram that the show the step and sequence of process or workflow.
- Create a flowchart if a $35 + 64$

SE_ASSIGNMENT_M1



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

- A use case diagram is a graphical representation of the functional requirement of a system or software application.

SE_ASSIGNMENT_M1

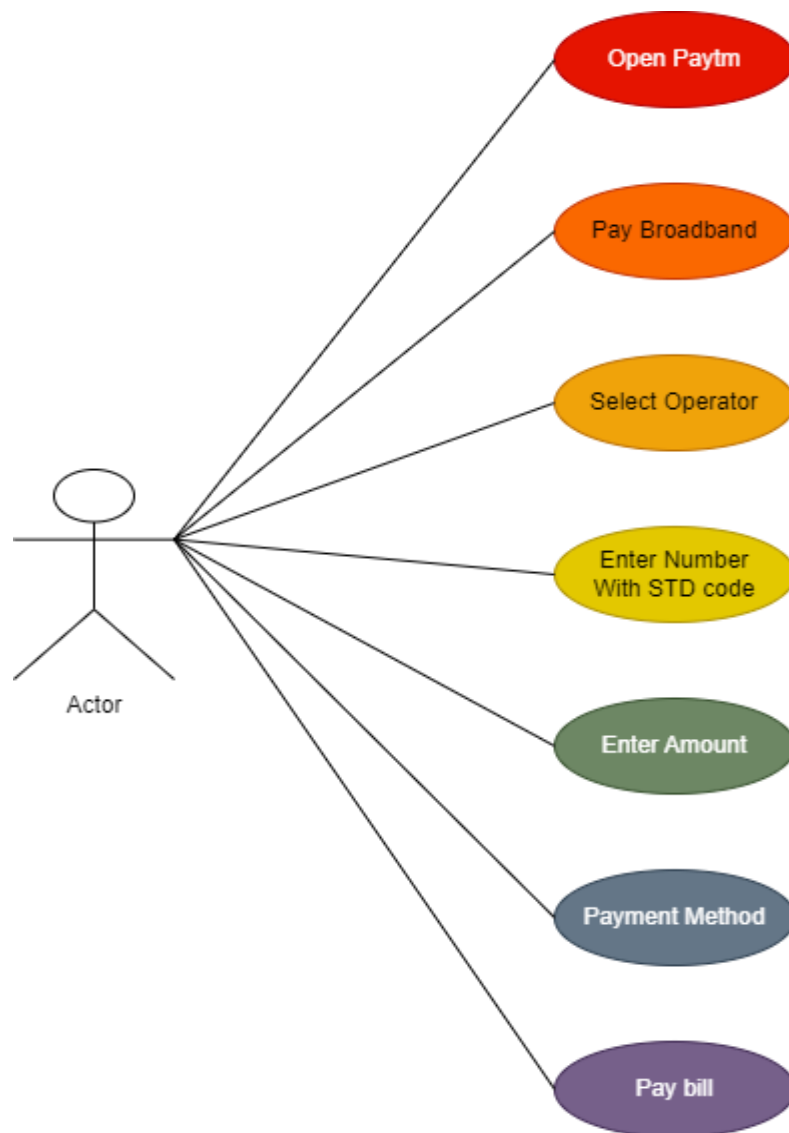


Fig: Use-case in Pay Broadband