Software Engineering

MODULE:

SE – Overview of It Industry

1. What is software? What is software engineering?

Software is set of instructions, programs used to

Operate computers and execute specific task.

Software is a collection of programs.

Software engineering:

Software engineering is the process of developing, designing, maintaining and testing computer programs.

Software engineering is build a code to solve

Specific task

2. Explain types of software.

There is a two main types of software is:

- System software
- Application software

System software:
System software written in low level assembly language or machine code.
System software runs independently.
Necessary for the system function.

Application software:
Application software written in higher level assembly language like python or java script.
Needs system software to run.
Not necessary for the system function.

3. What is SDLC? Explain each phase of SDLC

   SDLC stands for software development life cycle.

   Phase of SDLC:

   - Planning
   - Analysis
   - Design
   - Implementation
   - Testing
   - Maintenance

Planning: the first step of SDLC it is planning process.

Analysis: the second step of SDLC
It is switch to the research and analysis.

Design: third step of SDLC for development project and designing.

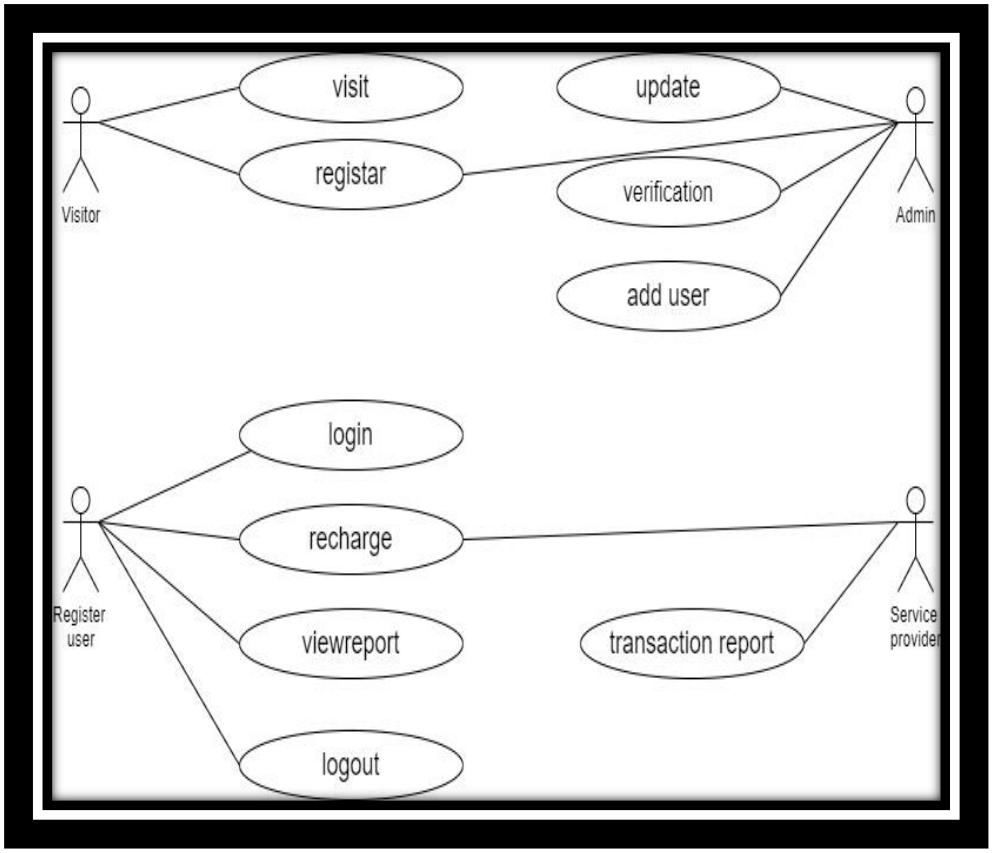
Implementation: it is fourth step of SDLC For implementation process.

Testing: fifth step of SDLC where developers test their programing.

Maintenance: the maintenance step in SDLC is ongoing process for upgrades, repairs and maintain.

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

Use case diagram is a visual representation of the interactions between users and a system.

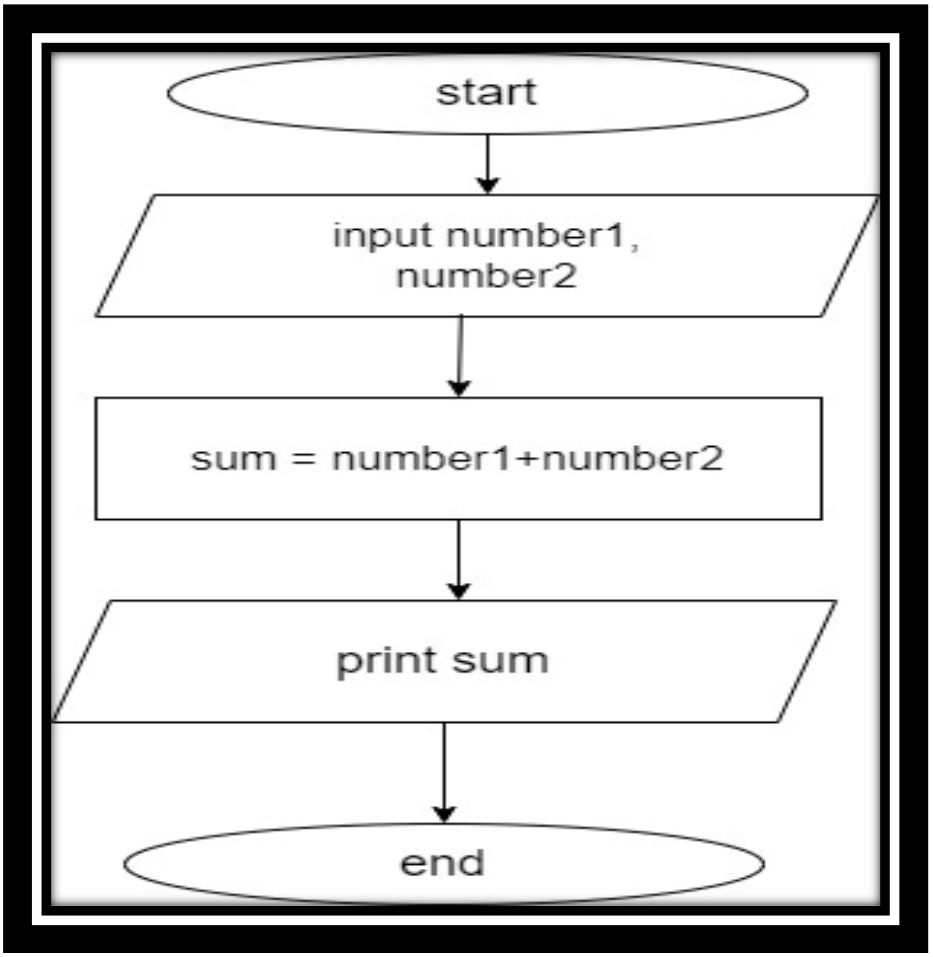


Use Case Diagram Payment Of Paytm

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

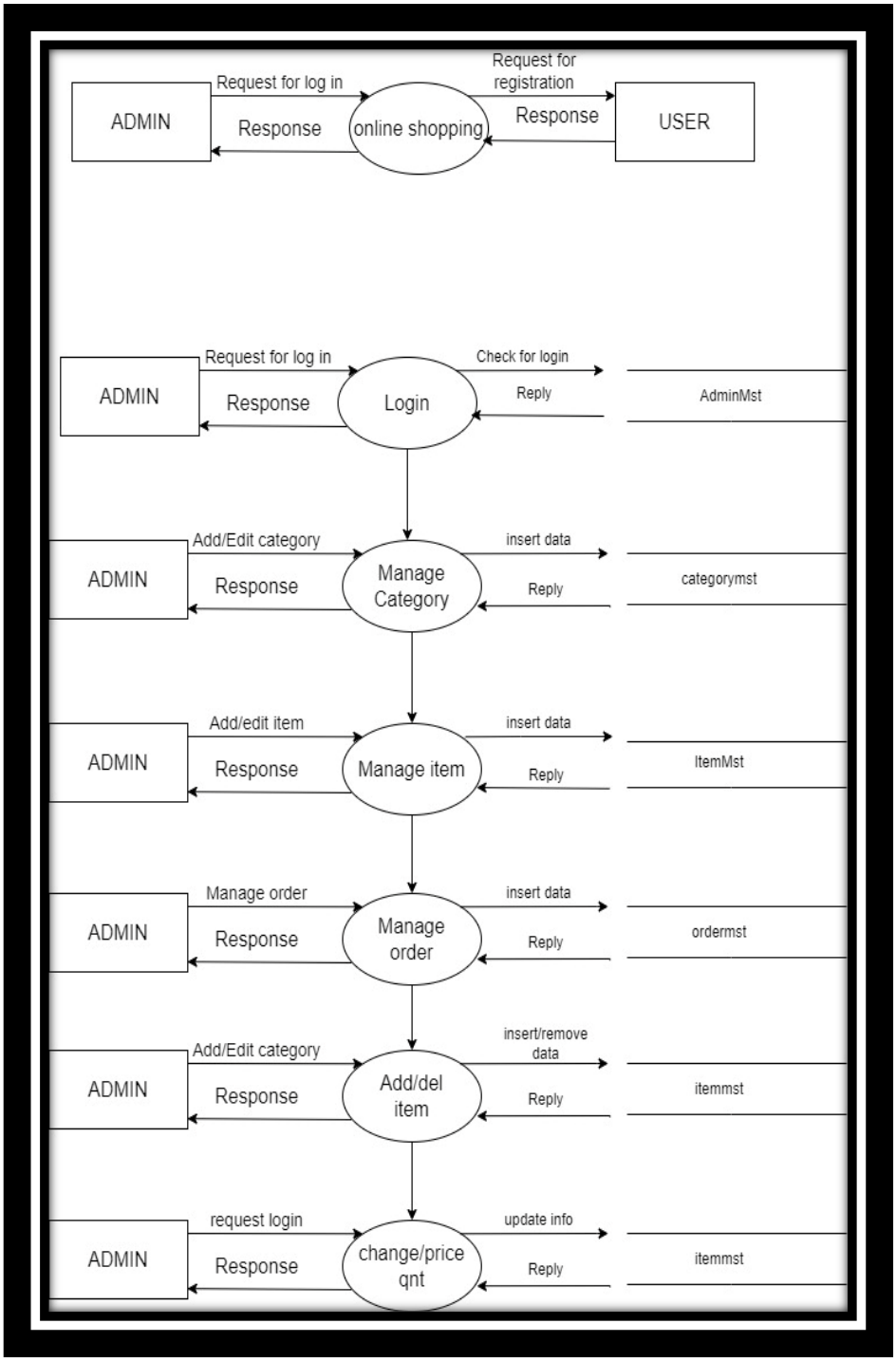
Flowchart are nothing but the graphical representation of the data or the algorithm for a better understanding of the code visually. It displays step-by-

step solutions to a problem, algorithm, or process.



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

Data flow diagram (DFD) is a visual representation of how data flows through a system. We can use a DFD to analyse existing systems or create new ones.



Admin side DFD

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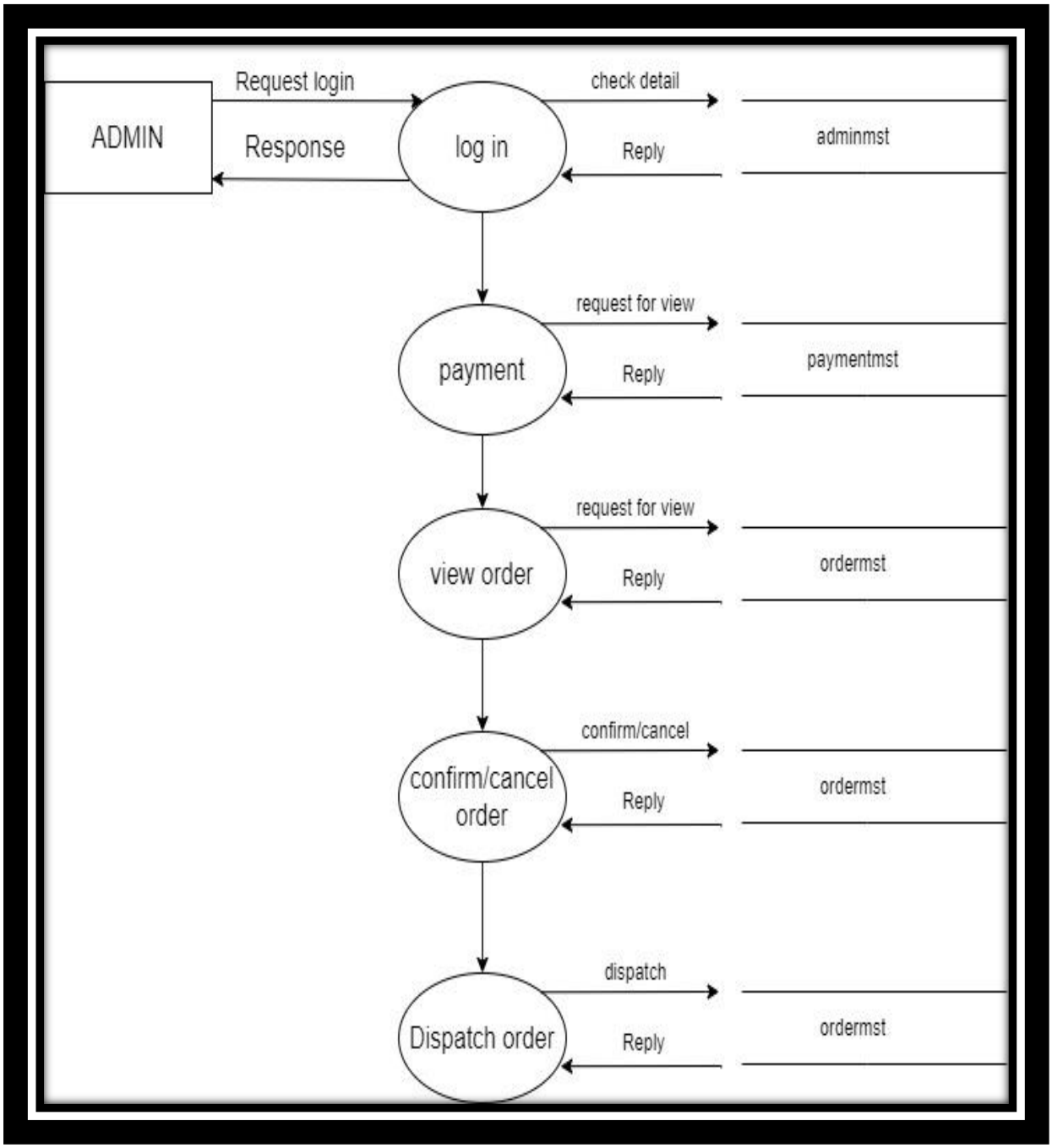
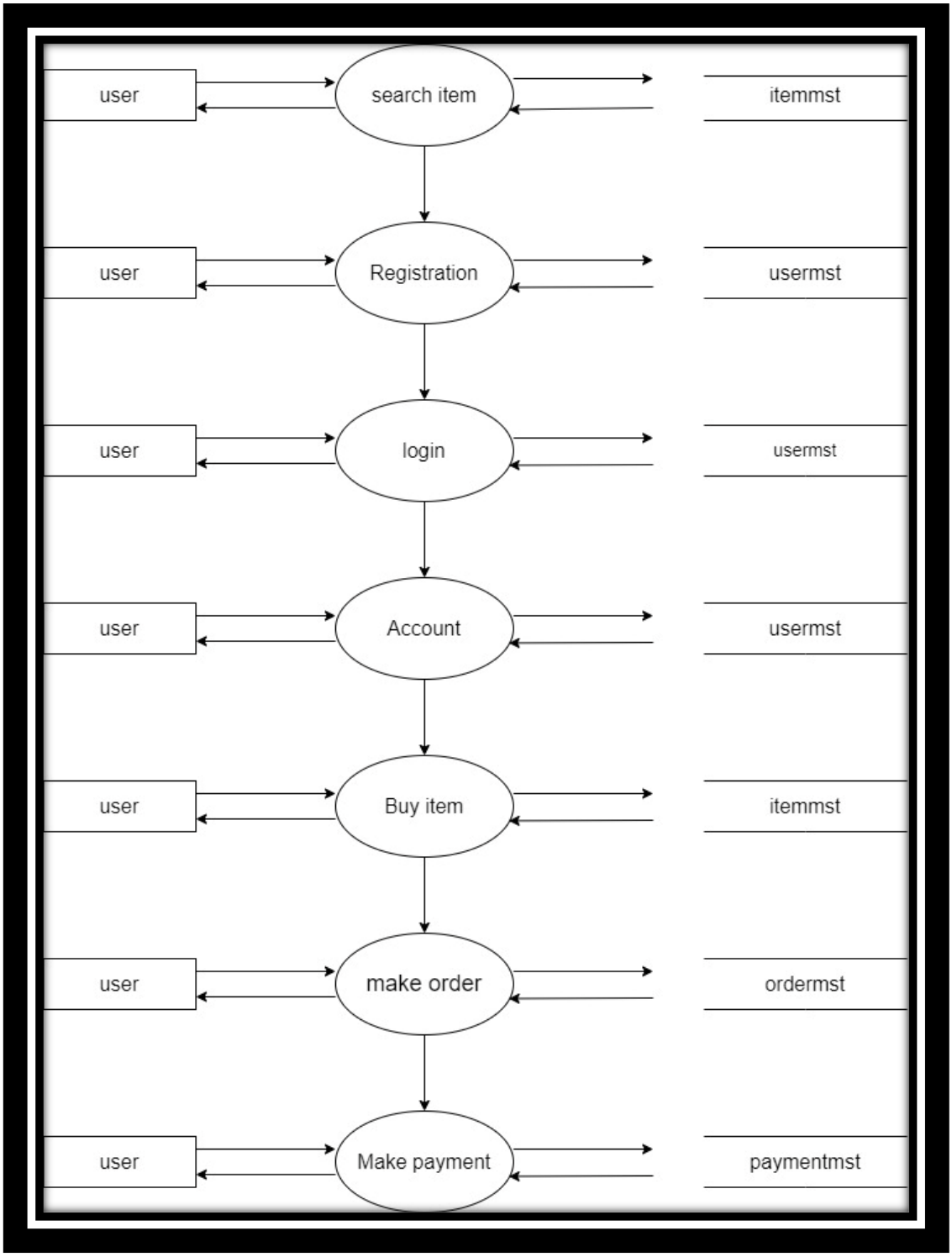
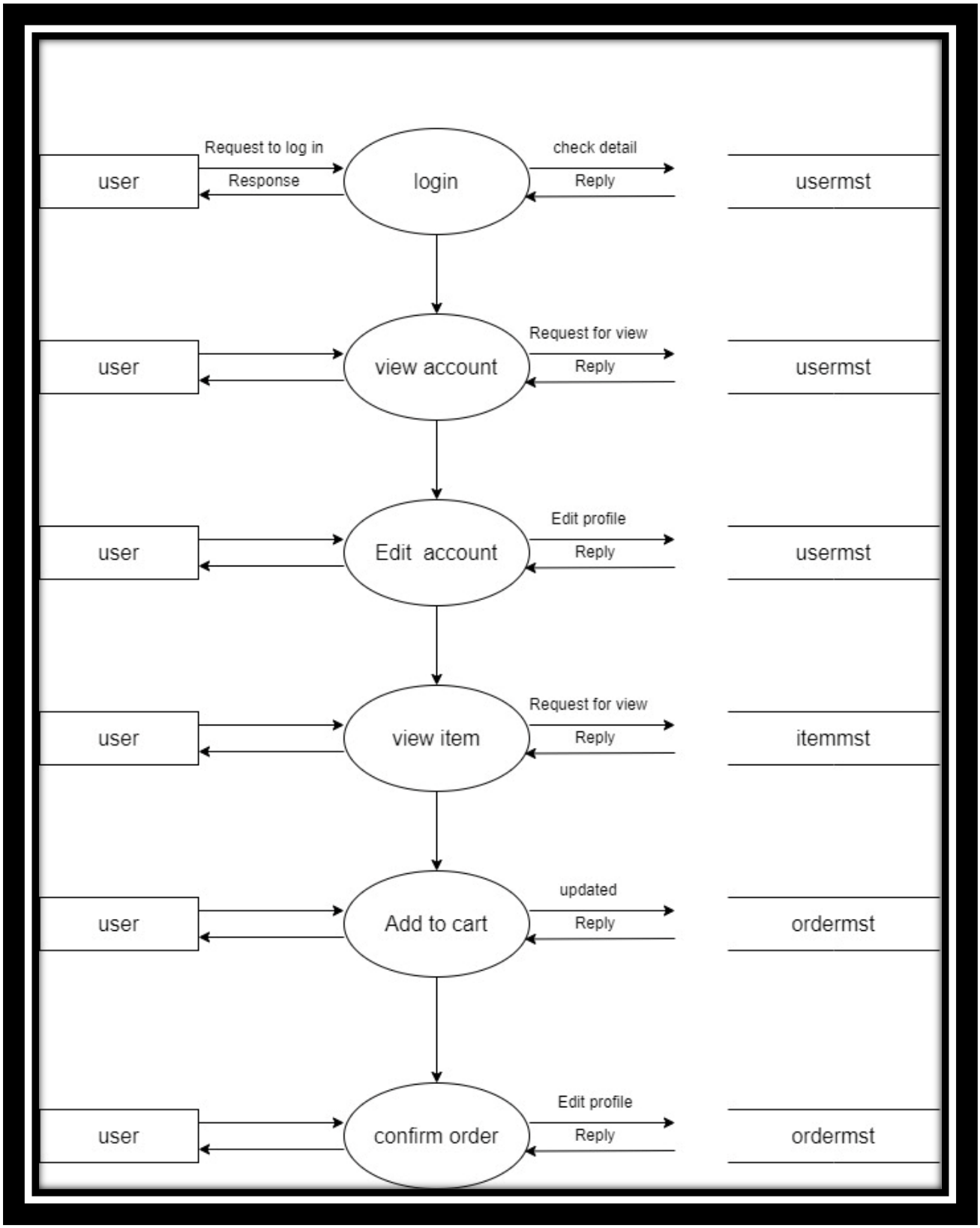




User side DFD



User side DFD