

Online shopping DFD

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1. Introduction

The Online Shopping System is a web-based application that allows customers to browse, select, and purchase products.

To better understand the system's flow of information, **Data Flow Diagrams (DFDs)** are used. These diagrams represent the movement of data between processes, entities, and data stores.

2. Objectives of DFD

- To represent the **flow of data** within the Online Shopping System.

- To identify **external entities, processes, and data stores**.
 - To provide a **clear, structured view** of the system for analysis and design.
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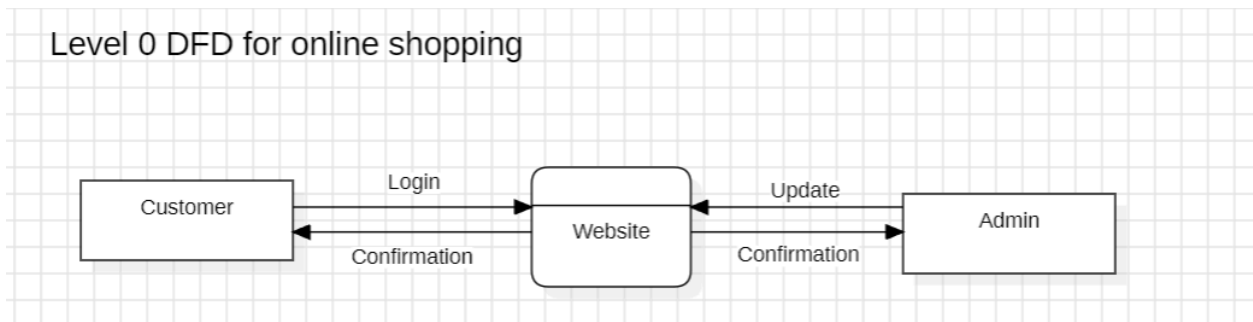
3. DFD Symbols Used

- **Process (Circle/Oval)**: Represents functions or activities.
 - **External Entity (Rectangle)**: Represents outside users or systems.
 - **Data Flow (Arrow)**: Represents flow of information.
 - **Data Store (Open-ended Rectangle)**: Represents data storage.
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4. Context Level Diagram (Level 0)

The Level 0 diagram provides a high-level overview of the Online Shopping System as a single process interacting with external entities.

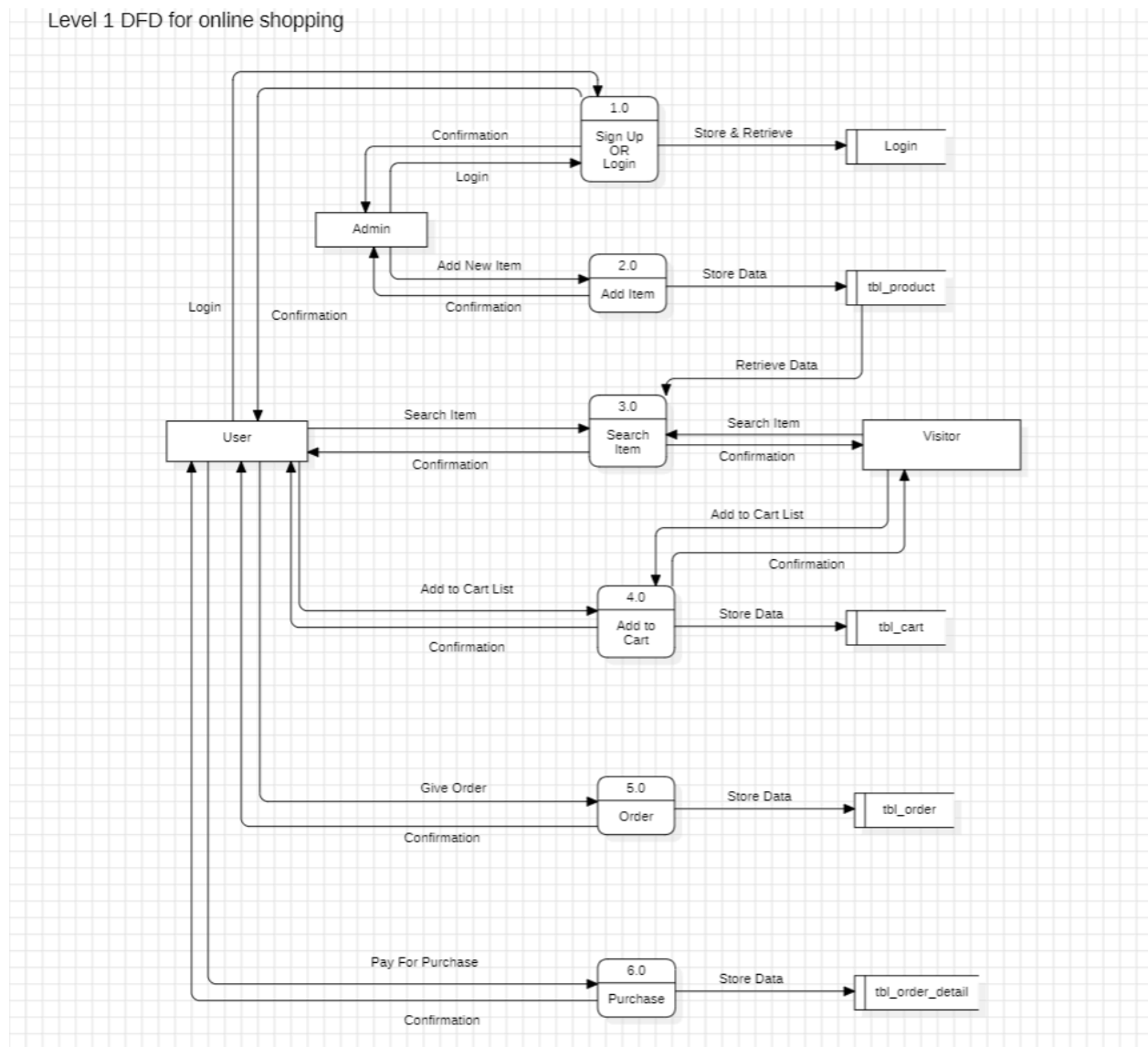
Diagram:



5. Level 1 DFD

This diagram expands the system into **major processes** such as User Login, Product Management, Cart Management, and Payment Processing.

Diagram:



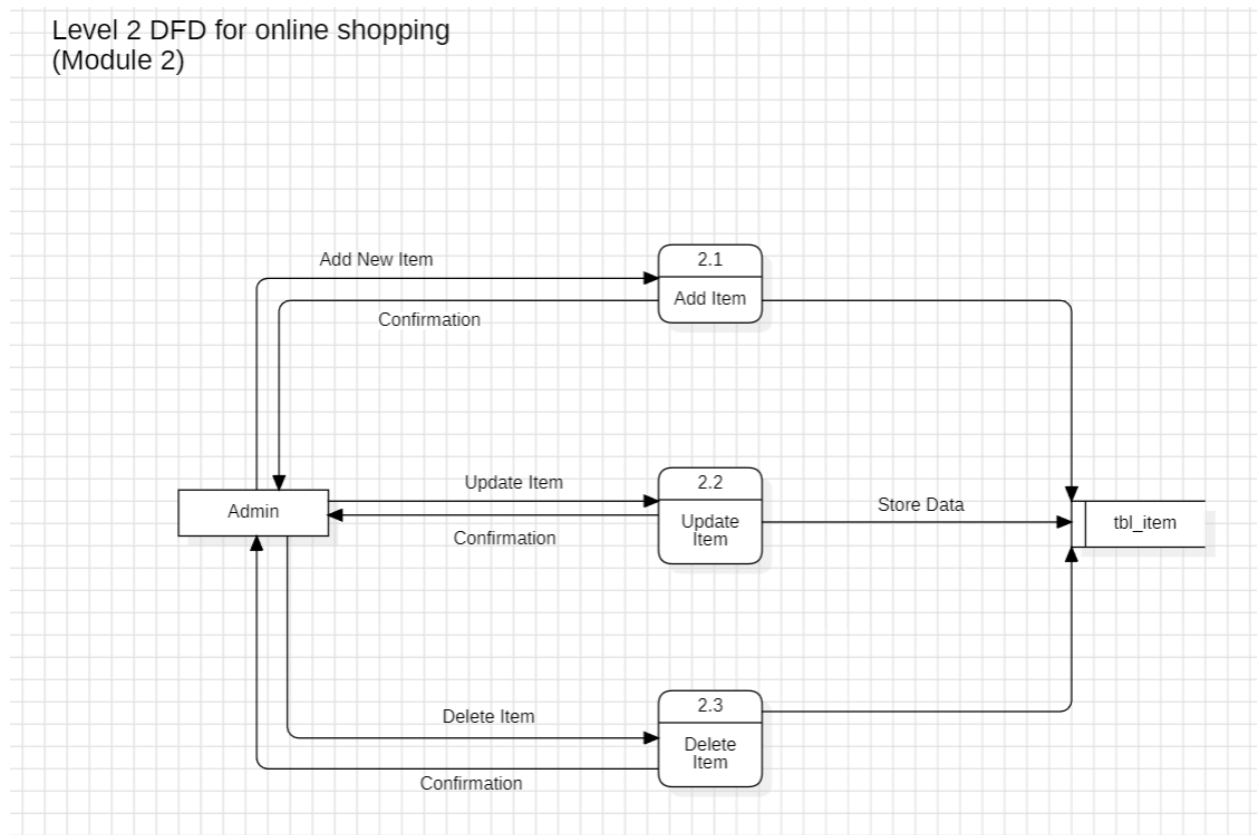
6. Level 2 DFD

Level 2 diagrams show a **detailed breakdown** of Level 1 processes.

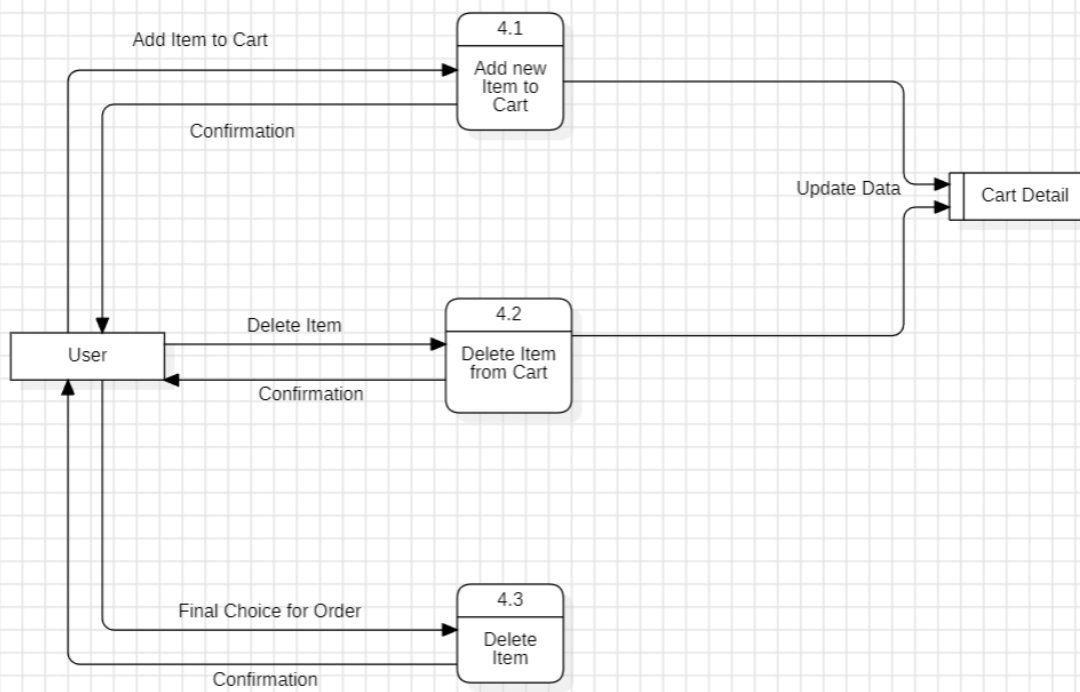
For example:

- New item (admin)
- Add to Cart (user)
- Order (user)

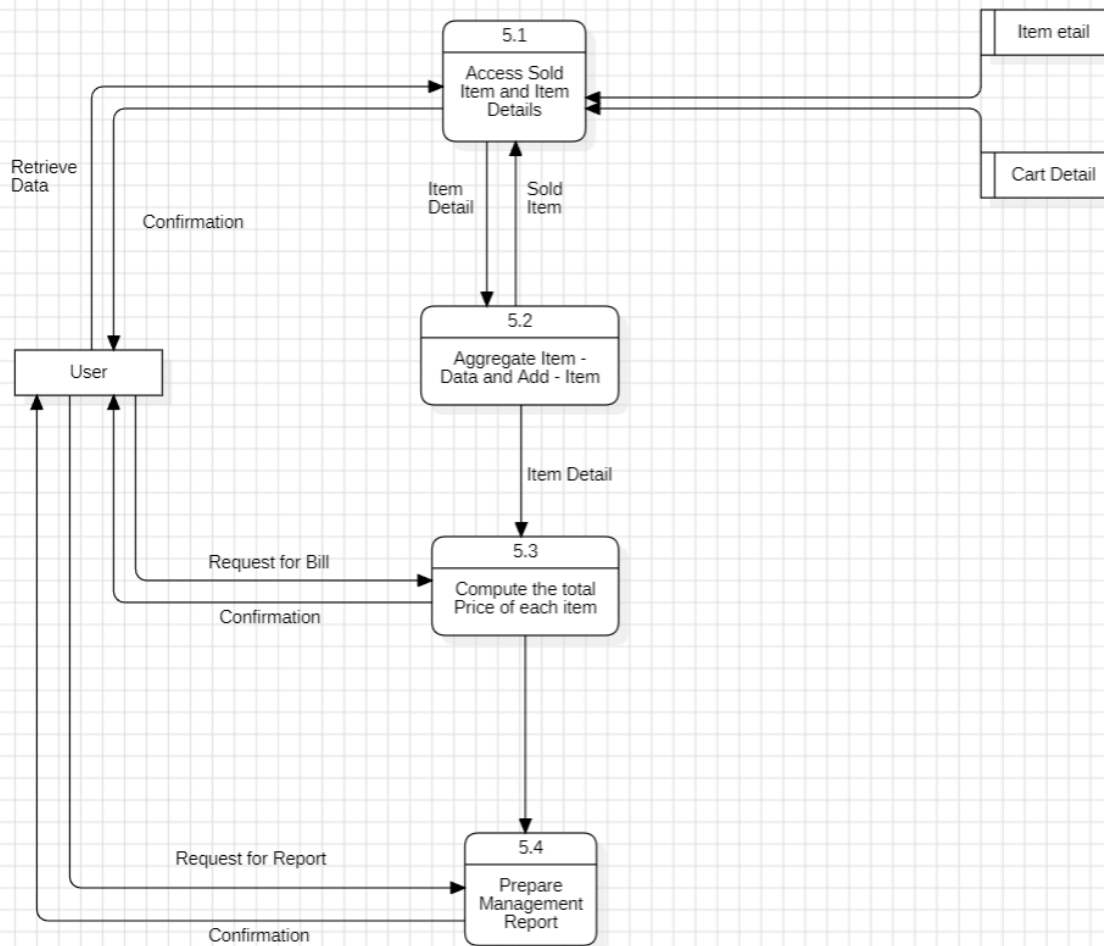
Diagrams:



Level 2 DFD for online shopping (Module 4)



Level 2 DFD for online shopping
(Module 5)



7. Conclusion

The Online Shopping System DFDs (Levels 0, 1, and 2) illustrate how data flows between processes, entities, and data stores.

This structured approach simplifies system understanding and ensures accurate design and implementation.