|  |  |
| --- | --- |
|  | **FPT ACADEMY INTERNATIONAL**  **FPT – APTECH COMPUTER EDUCATION** |

**Centre Name: ACE-HCMC-2-FPT.**

**Address: 590 Cach Mang Thang 8, District 3, Ho Chi Minh City, Viet Nam.**

**SHOPP**

|  |  |  |
| --- | --- | --- |
| **Supervisor:** | MR. HOANG DUC QUANG | |
| **Semester:** | 4 | |
| **Batch No:** | T1.2005.E1 | |
| **Group No:** | 2 | |
| **Order:** | **Full name** | **Roll No.** |
| 1. | NGUYEN HOANG PHU | Student1262866 |
| 2. | DAO LE DUONG |  |
| 3. | LE HONG SON |  |
| 4. | NGUYEN MINH DUY |  |

April 2022

**Contents:**

This is to certify that

Mr. Nguyen Hoang Phu

Mr. Le Hong Son

Mr. Dao Le Duong

Mr. Nguyen Minh Duy

Have successfully: Designed & Developed

SHOPP

Submitted by:

Mr. Hoang Duc Quang

Date of Issue:

Authorized Signature:



**REVIEW I 1**

**I. Acknowledgment 2**

**II. Problem Definition 3**

1. Introduction 3

2. Project Requirement 3

3. System Requirements 6

3.1. Server Requirements 6

3.2. Client Requirements 6

4. Development Software 6

5. Technology 6

**Task sheet review 1 8**

**REVIEW II 9**

Architecture & Design of the Project 10

**I. Data Flow Diagram** 12

1. Context Diagram 13

2. Level 0 Diagram 13

3. Level 1 Diagram 14

3.1 Login 14

3.2 Manage 14

3.3 Allot 15

3.4 Sale 15

**II. Use Case Diagram 16**

1. Company use case 16

2. Customer use case 17

3. Dealer use case 18

**III. Sequence Diagram 19**

1. Dealer login sequence 19

2. Dealer purchase vehicle from company sequence 21

3. Dealer sale to customer sequence 23

4. Dealer check reports sequence 25

**IV. Entity Relationship Diagram 26**

1. Logical ERD 26

2. Physical ERD 27

**V. Table Design 28**

1. Branch 28

2. Vehicle 28

3. Service 28

4. Status Order 29

5. Dealer 29

6. Customer 29

7. Showroom Vehicle 30

8. Warehouse Vehicle 30

9. Order 30

10. Order Detail 31

**Task Sheet Review II 32**

**REVIEW III 33**

**1. Login 34**

**2. Statistical 34**

**3. Order 35**

3.1 Order list 35

3.2 Create order sale 35

3.3 Create order purchase 36

3.4 Update status 36

**4. Showroom vehicle 37**

4.1 Showroom vehicle list 37

4.2 Register new showroom vehicle 37

**5. Company Vehicle 38**

**6. Dealer 38**

6.1 Dealer list 38

6.2 Dealer update 39

6.3 Register new dealer 39

**7. Customer 40**

7.1 Customer list 40

7.2 Customer update 40

**8. More 41**

**Task Sheet Review III 42**

**REVIEW 1**

**I Acknowledgement**

It is often said that “Gratitude is the sign of noble souls”. That’s why we devote this chapter to express our deep gratitude towards those who have supported and guided us to accomplish this Project successfully.

First and foremost, we appreciate the invaluable assistance that our beloved instructor – Mr.Hoang Duc Quang, has offered us. Whenever problems come up, he’ll always the one that we can count on for solutions. Moreover, there were moments when our team decided to give up our project, and Mr. Nguyen gave us a pep talk to keep us back on the track. Therefore, once again, we truly value your dedication and guidance, Mr. Nguyen.

Next, it would have been impossible to carry out and complete this project without the collaboration among our team members. Although we have gone through many obstacles during the project implementation, eventually we gained what we aimed at by our hard work, our strong commitment and of course, our brotherhood. Finally, thanks to Aptech’s Project assignment, we had a golden opportunity to apply what we have learnt into reality and gain hands-on experience which is essential for our future career.

**II. Problem Definition**

**1. Introduction**

Currently, the era of technology is growing, online shopping and transactions have become too popular in modern society. Therefore, the demand for sales and purchases between people is growing and diversifying. So we created a project to serve that need – Shopp.

We believes in the evolving power of technology and wishes to contribute to making the world a better place by connecting the community of buyers and sellers through providing an e-commerce platform. Shopp project platform is built to provide users with an easy, safe and fast experience when shopping online through a strong operating and payment support system. The project provides users with a simple, easy and enjoyable online shopping experience.

**2. Project Requirement**

**2.1 Customer's Requirement Specifications**

The website will be an e-commerce platform 24/7 to provide customers with information about products, post sales, order online at the website at any time.

Special, the client can be:

* View detail information about product.
* Track recently viewed product.
* Posting for sale products of customer store
* Report to manage business activities of the store.
* Search product by name or filter product by category, type, brand and price
* Member have registered to manage their personal information, order, wish list and rate product
* Order online and manage cart.

Website also providing business management tools (shop owner):

* Platform management: add, delete, edit components of the site.
* Report to manage business activities of the shop customer.

**2.2 Functional Requirement Specifications**

A. Function of Guests (Unregistered customer):

* List of featured product (hot, sale, new, etc….)
* Link to navigate to list of shop’s stores filtered by cities
* A text field to search products (auto complete when typing and display with lazy loading).
* Filter products by categories, brands, types.
* Link to other things such as about shop, terms & conditions, privacy policy, social pages (if have).

B. Function of Member (Registered customer)

Guests can register on the website to become a member. After having their accounts, they can still do all function as guests but they will be able to access more features after login. After login, they can do more function like:

* Update their information including password change
* Order and checkout online, manage their carts, order status, shipping
* Rating after order
* Create and manage their shop, post and edit product for sale
* Manage and track order to their customer

C. Function of Staff (Platform)

* Manage information related to products and customers, shop, account payment
* Follow customers’ order
* Can view reports with charts about sales status

**3. System Requirements**

**3.1 Server Requirements**

Hardware

|  |  |
| --- | --- |
| **Component** | **Requirement** |
| **CPU** | Processor type: Pentium IV-compatible processor or faster Processor speed: Recommended: 2.0 GHz or faster |
| **OS** | Microsoft Windows XP or higher with IIS |
| **Memory (RAM)** | RAM: Minimum: 512 MB Recommended: 2 GB or more |
| **Hard Drive** | Free space: Minimum: 200 MB Recommended: 50 GB or more Maximum: Operating system maximum |

Software

|  |  |
| --- | --- |
| **Component** | **Requirement** |
| **Java Development Kit** | JDK 11 |
| **RDBMS** | MySQL Server |

**3.2 Client Requirements**

Hardware

|  |  |
| --- | --- |
| **Component** | **Requirement** |
| CPU | Processor type: Pentium III-compatible processor or faster Processor speed: Recommended: 1.0 GHz or faster |
| Memory (RAM) | RAM: Minimum: 512 MB Recommended: 1 GB or more Maximum: Operating system maximum |
| Hard Drive | Free space: Minimum: 10 MB |

Software

|  |  |
| --- | --- |
| **Component** | **Requirement** |
| **OS** | All OS(Window ,Linux ,Android ,Mac OS …) |
| **Web Browser** | IE 4.0 , Firefox 3.0,Chrome or Higher….. |

**4. Development Software**

* BDeaver
* Jetbrains Intellij
* Microsoft Visio 2016.
* Java Development Kit (JDK) 11
* Tomcat Server

**5. Technology**

* Spring Boot 2.6.3
* Lombok, Spring Security, ModelMapper
* MySQL Server
* HTML, CSS, Javascript
* Bootstrap
* Jquery
* Ajax
* Stripe API
* GHN API

**TASK SHEET REVIEW 1**

**REVIEW 2**

**I. Data Flow Diagram (DFD)**

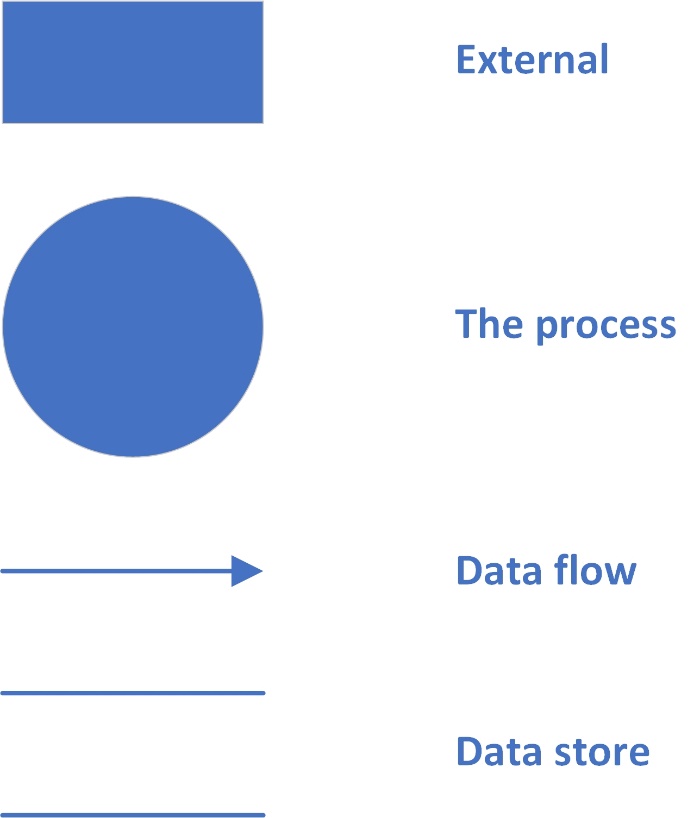
**Define:** Data Flows Diagram (DFD) describes the information flow in the system. The next step of system analysis is to consider in detail the information necessary for the implementation for functions discussed above and the one necessary for the improvement of the functions. Modelling tool frequently used for this purpose is DFD. DFD will support 4 main activities:

**Analysis:** DFD is used to determine requirement of users. Design: DFD is used to map out plan and illustrate solution to analysis and users while designing a new system.

**Communication:** one of the strength of DFD is its simplicity and ease to understand to analysts and users.

**Document:** DFD is used to provide special description of requirement and system design. DFD provide an overview of key functional components of the system but it does not provide any detail on these components. We have to use other tools like database dictionary, process specification to get an idea of which information will be exchanged and how.

The main components of Context Diagram:

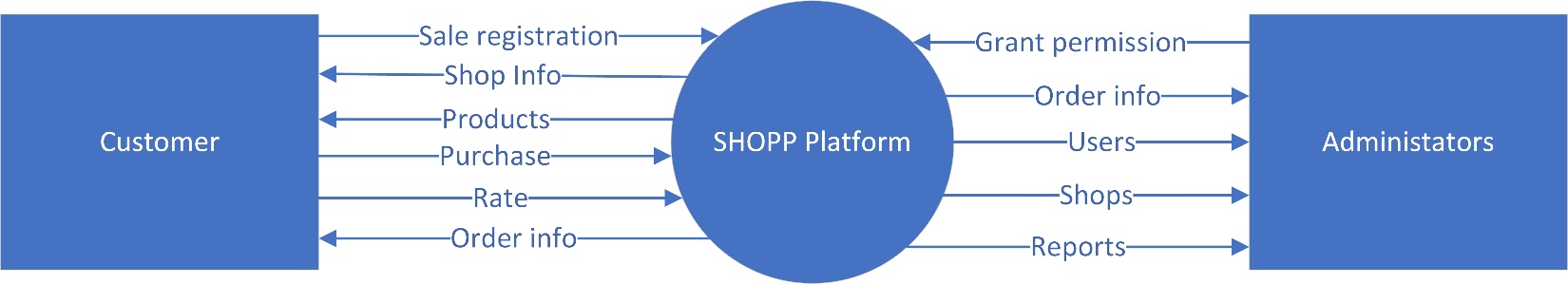
**The external factors**: External factors can be a person, a group of persons or an organization that are sources of information for the systems and are where system products are transferred to.

**The process**: Shows the common function of system

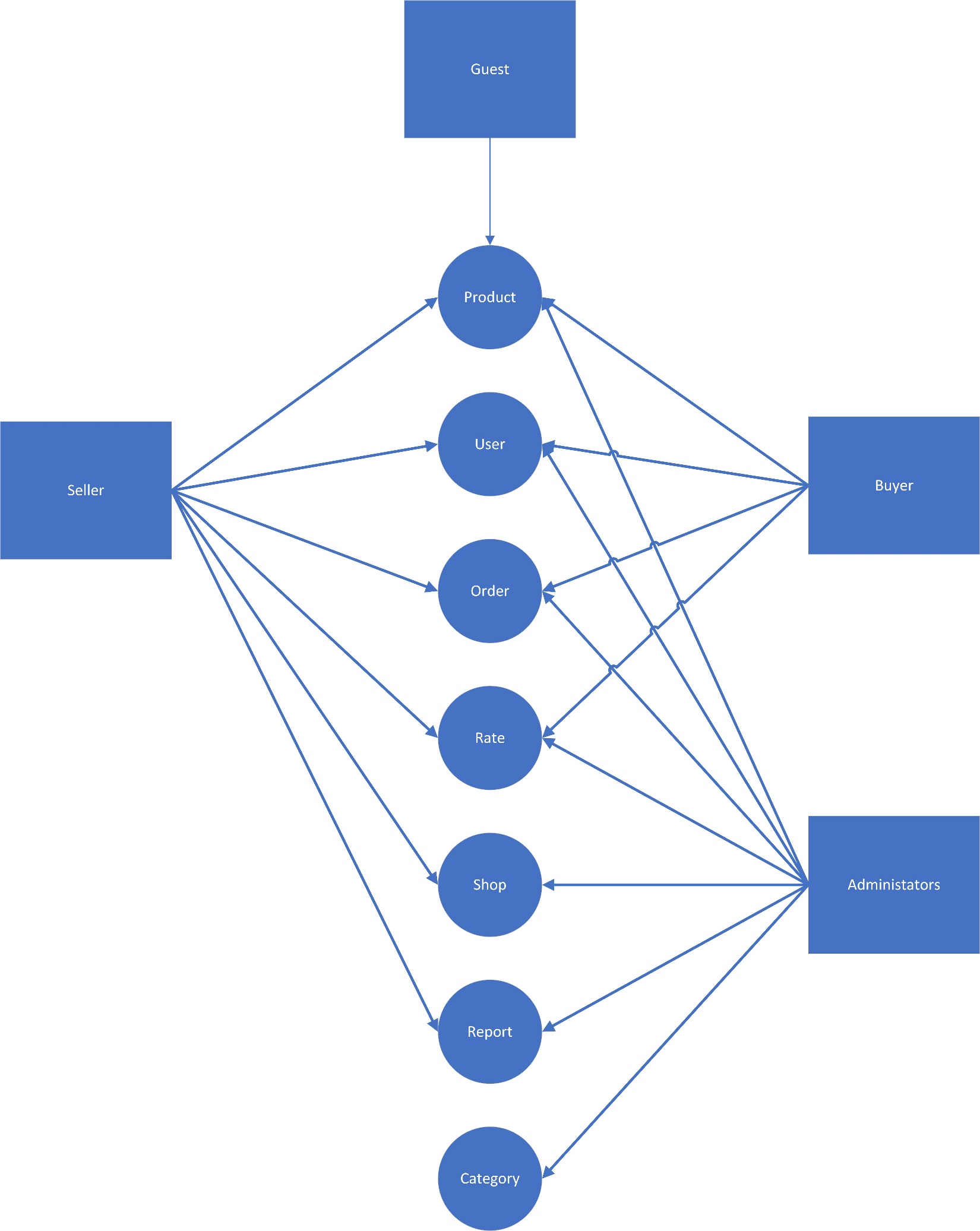
**The data flow**: Describe the movement of information from one part of the system to another.

**The data store**: The Data Store is used to model a collection of data packets at rest. A store is represented graphically by two parallel lines. The name of a Data Store that identifies the store is the plural of the name of the packets that are carried by flows into and out of the Data Store

**1. Context Level Diagram**

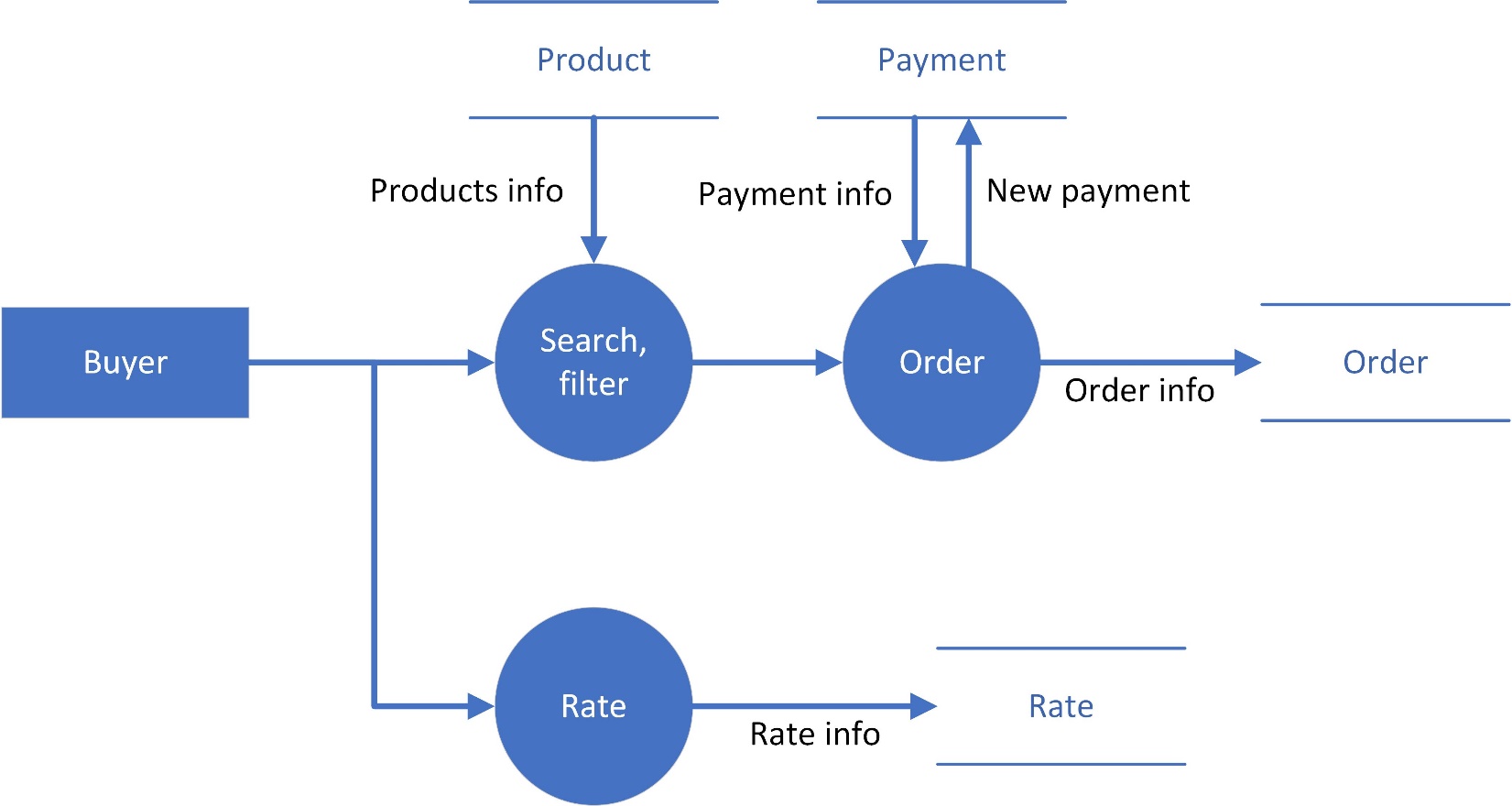


**2. Level 0 DFD**

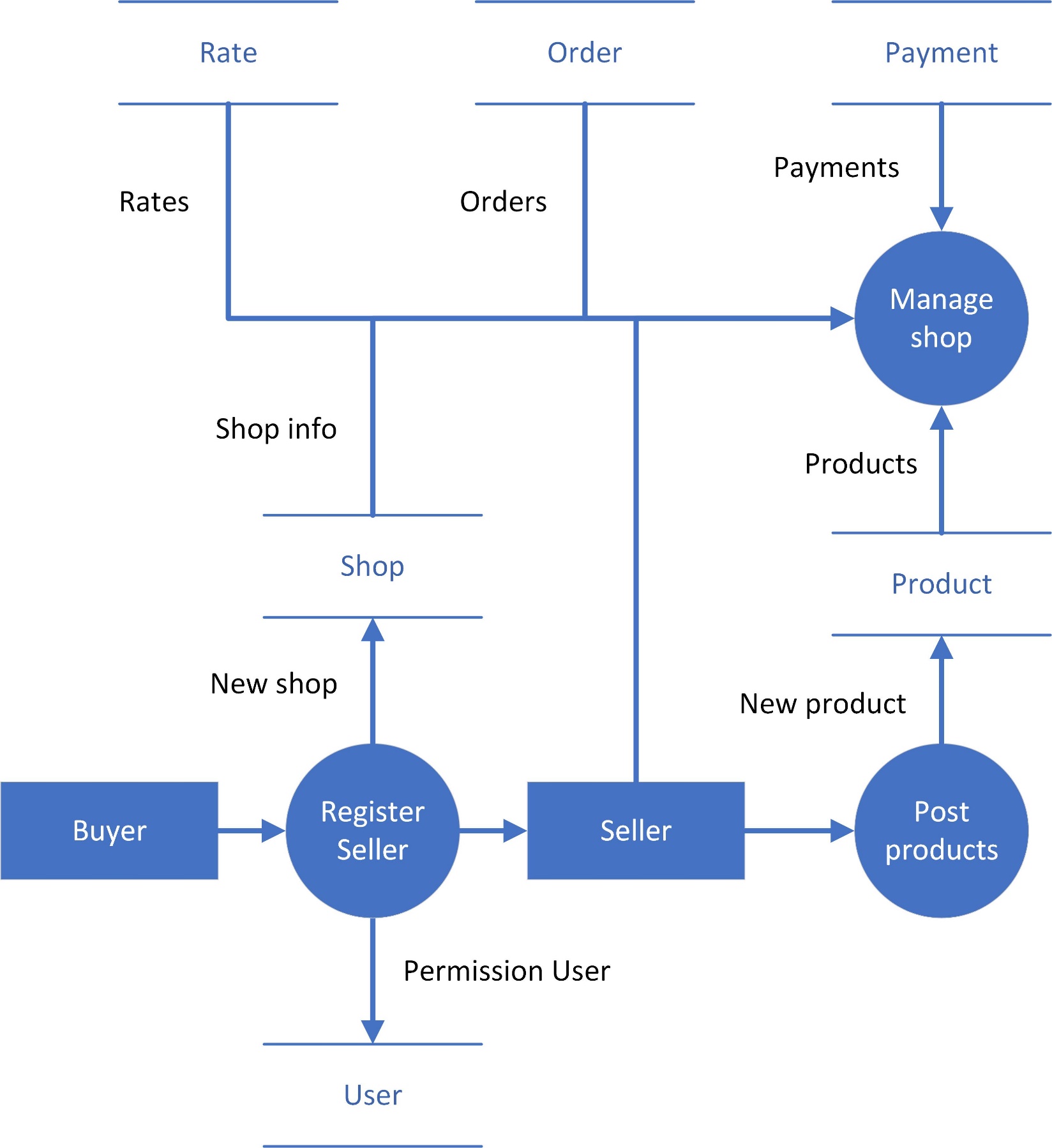
****

**3. Level 1 DFD**

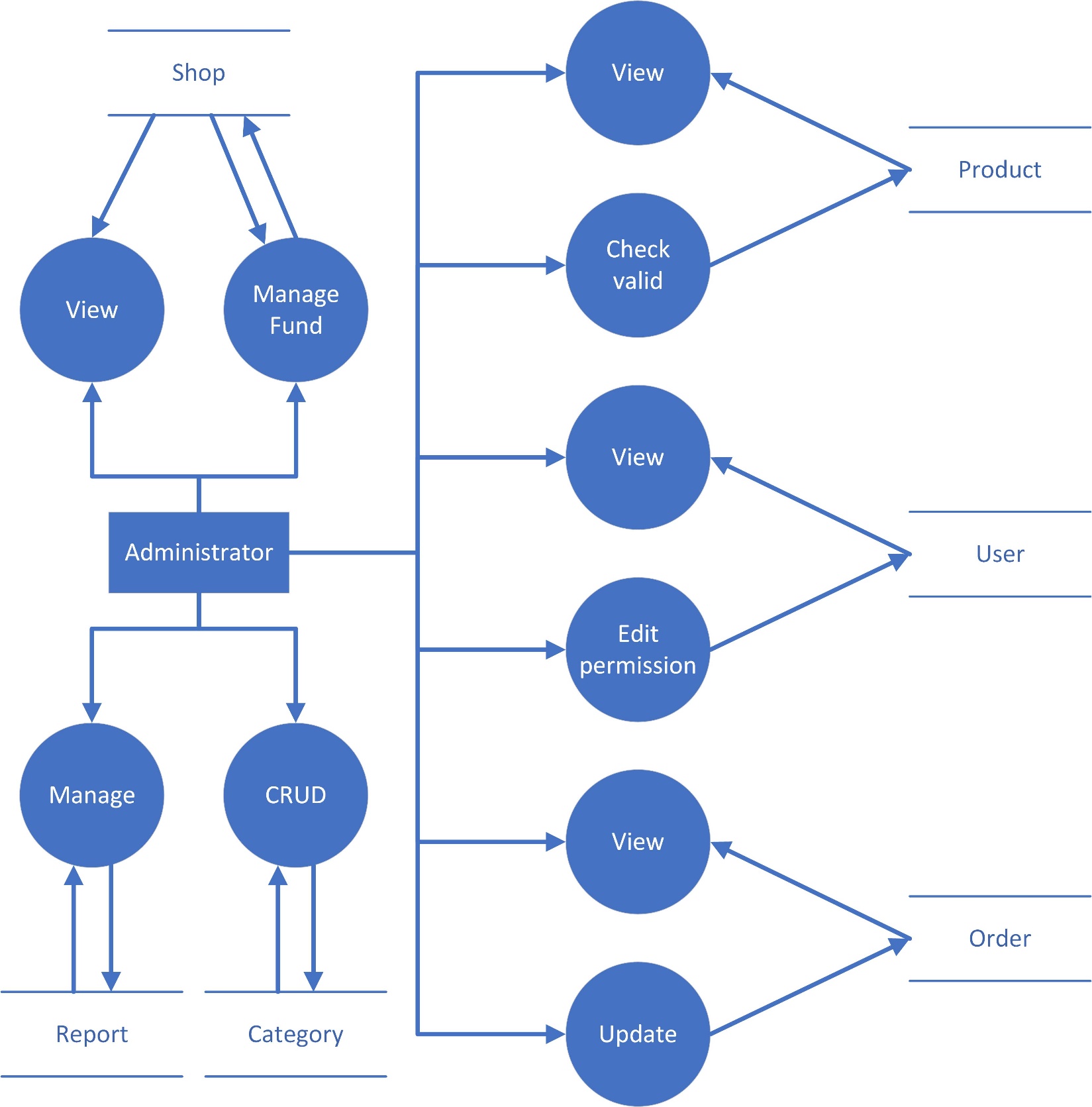
**3.1 User purchase**

****

**3.2 User register sell**

****

**3.3 Admin management**



**II. Use Case Diagram**