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Documentation On
''Online Buy&Rent Shopping System''
PG-Dac FEB-2020

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Introduction

This document is meant to delineate the features of (OBRSS), so as to serve as a guide to the developers on one hand and a software validation document for the prospective client on the other. The Online Buy&Rent Shopping System (OBRSS) for All item shop web application is intended to provide complete solutions for vendors as well as customers through a single get way using the internet . It will enable vendors to setup online shops, customer to browse through the shop and purchase And rent them online without having to visit the shop physically.

Document purpose

The advancement in Information Technology and internet penetration has greatly enhanced various business processes and communication between Admin and their customers who are purchasing the Products. This Online Buy And Rent Shopping system is developed to provide the following services:

Enhance Business Processes:

To be able to use internet technology to project to the global world instead of limiting their services to their local domain alone, thus increase their return on investment (ROI).

Online Buy&Rent Shopping system

A tool through which admin can register And gives various type of products to user with advantage of Buying And Renting them accordingly with existing price.And the user can Take the advantage of online Buy&rent shopping system.

Problem Statement

This projects aims to develop an online shopping for customers with the goal so that it is very easy to shop your loved things from a extensive number of online shopping sites available on the web. With the help of this you can carry out an online shopping from your home. Here is no compelling reason to go to the crowed stores or shopping centers during festival seasons. You simply require a PC or a laptop and one important payment sending option to shop online.

Product Scope

This project provides the software for ONLINE-SHOPPING. The purpose of this project is to provide an easy shopping facility online and easy selling facility to the merchants of all categories. The customers register with their details and get authentication for an authorized Login.

Aims & Objectives

Specific goals are: -

- Reduce management costs

- Developing business relations

- Providing a unique customer experience

- Increasing the number of loyal customers

- Boosting the efficiency of services

- Increasing sale

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Product Perspective

2.1.1 Existing system function:

E-commerce functions or features that are commonly listed in the literature include product presentation, electronic catalogs, order entry, order confirmation, electronic payment, order fulfillment, and customer service. Some of these functions and features, however, are necessary for or subsumed by other functions.

III. PROPOSED SYSTEM

- Build a product catalog that can be browsed and search
- Implement the catalog administration pages that allow adding, modifying, and removing products, categories, and departments, and other administrative features
- Create your own shopping basket and check-out mechanism in Angular
- Increase sales by implementing product recommendations and product reviews
- Handle payments using PayPal and other electronic payment.
- Implement a customer accounts system

Benefits of Online Buy And Rent Shopping System

- This online Shopping site   management solution is fully functional and flexible.

- It is very easy to use.

- This online Shopping System helps the users to Buy Products without visiting the shop physically.

- With the Help of this site user can purchase existing Branded Product for rent for as many days as He / She wants.

- It saves a lot of time, and the rent feature Saves lots of money

- The application acts as an Shop that is open 24/7.

Users and Characteristics:

Admin:

- Admin Can Login to the system

- Admin can check which user is currently Active

- Admin can activate/deactivate the User

- Admin Can add/Update/Delete the product

- Admin can Block the particular product
  which one is out of stock.

- Admin Can Check order details of Users

User:

- 1)User Can Login and Signup

- 2)User Can see Gallery of products

- 3)User Can Buy And rent the same product with existing price

- 4)User can accordingly add the products to shopping cart And purchase them
- 5) User can check His / Her profile also Manage His/profile

- 6) User can check His / Her previously Ordered Products

Operating Environment:

Server Side:

Processor: Intel® Xeon® processor 3500 series

HDD: Minimum 500GB Disk Space

RAM: Minimum 8GB

OS: Windows 8.1, Linux 6

Database: Oracle 11g

Client Side (minimum requirement):

Processor: Intel Dual Core

HDD: Minimum 80GB Disk Space

RAM: Minimum 2GB

OS: Windows 7, Linux

Design and Implementation Constraints:

- The application will use J2EE, Angular, HTML5 and css as main web technologies. HTTP and FTP protocols are used as communication protocols. FTP is used to upload the web application in live domain and the client can access it via HTTP protocol
- Several types of validations make this web application a secured one and SQL Injections can also be prevented
- Since Buy&Rent Shopping System is a web-based application, internet connection must be established
- The Buy&Rent Shopping System will be used on PCs and will function via internet or intranet in any web browser.

Specific Requirement:

External Interface Requirements:

User Interfaces:
- All the users will see the same page when they enter in this website. This page asks the users a username and a password.
- After being authenticated by correct username and password, user will be redirect to their corresponding profile where they can do various activities.
- The user interface will be simple and consistence, using terminology commonly understood by intended users of the system. The system will have simple interface, consistence with standard interface, to eliminate need for user training of infrequent users.

Hardware Interfaces:
- No extra hardware interfaces are needed.
- The system will use the standard hardware and data communication resources.
- This includes, but not limited to, general network connection at the server/hosting site, network server and network management tools.

Application Interfaces:

OS: Windows 7, Linux

Web Browser:

The system is a web-based application; clients need a modern web browser such as Mozilla Firebox, Internet Explorer, Opera, and Chrome. The computer must have an Internet connection in order to be able to access the system.

Communications Interfaces:

- This system uses communication resources which includes but not limited to, HTTP protocol for communication with the web browser and web server and TCP/IP network protocol with HTTP protocol.

- This application will communicate with the database that holds all the booking information. Users can contact with server side through HTTP protocol by means of a function that is called HTTP Service. This function allows the application to use the data retrieved by server to fulfill the request fired by the user.

System Design

Activity Diagram
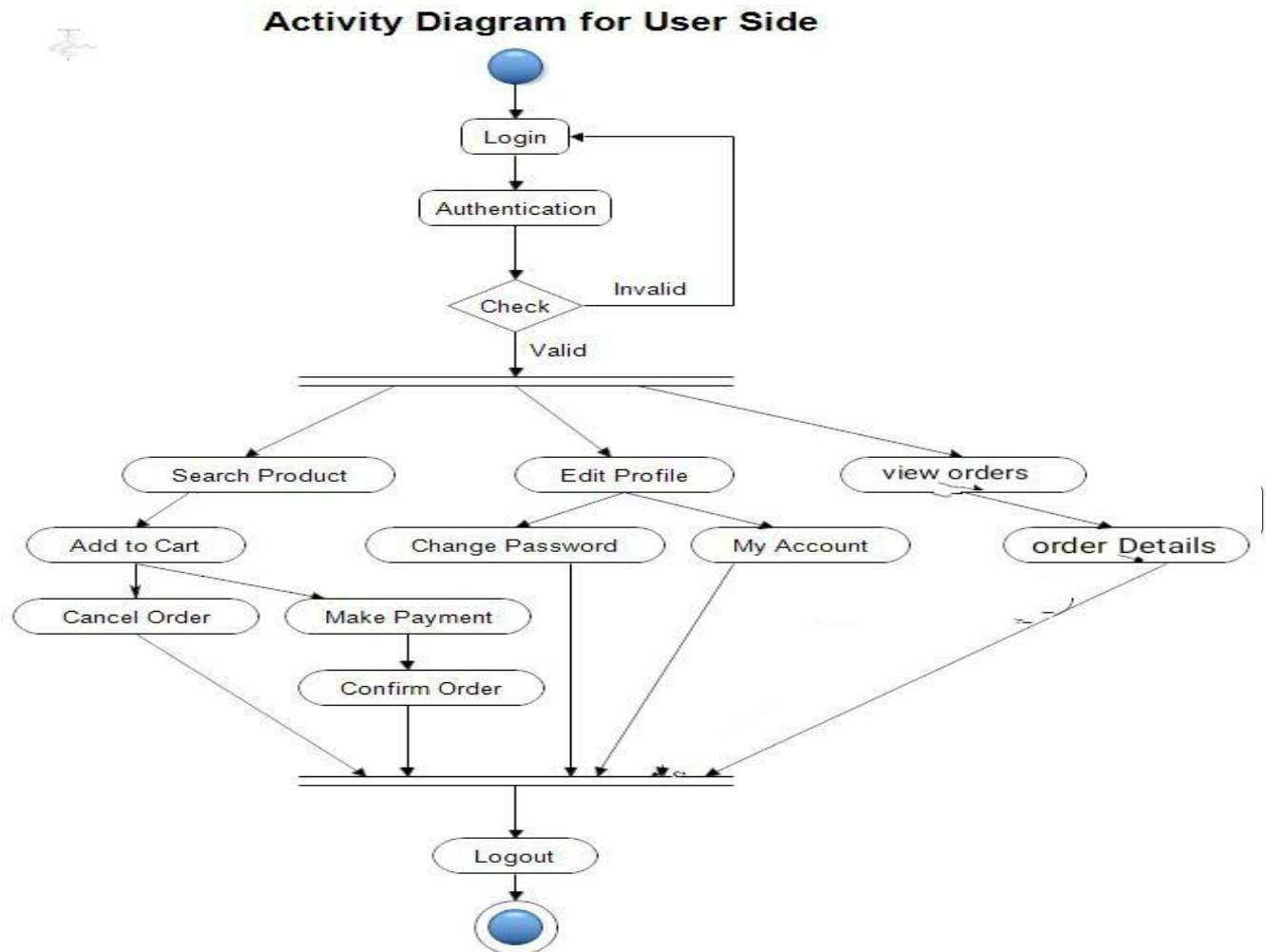
Figure1. Activity Diagram for User

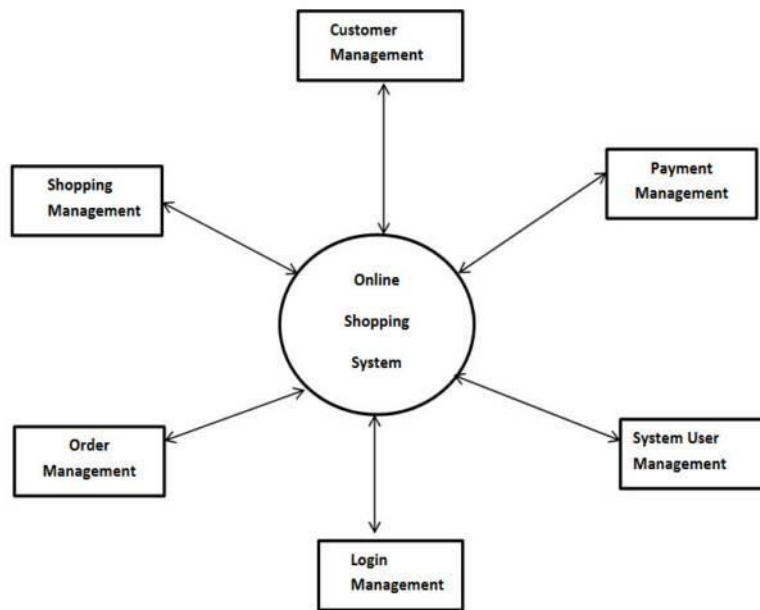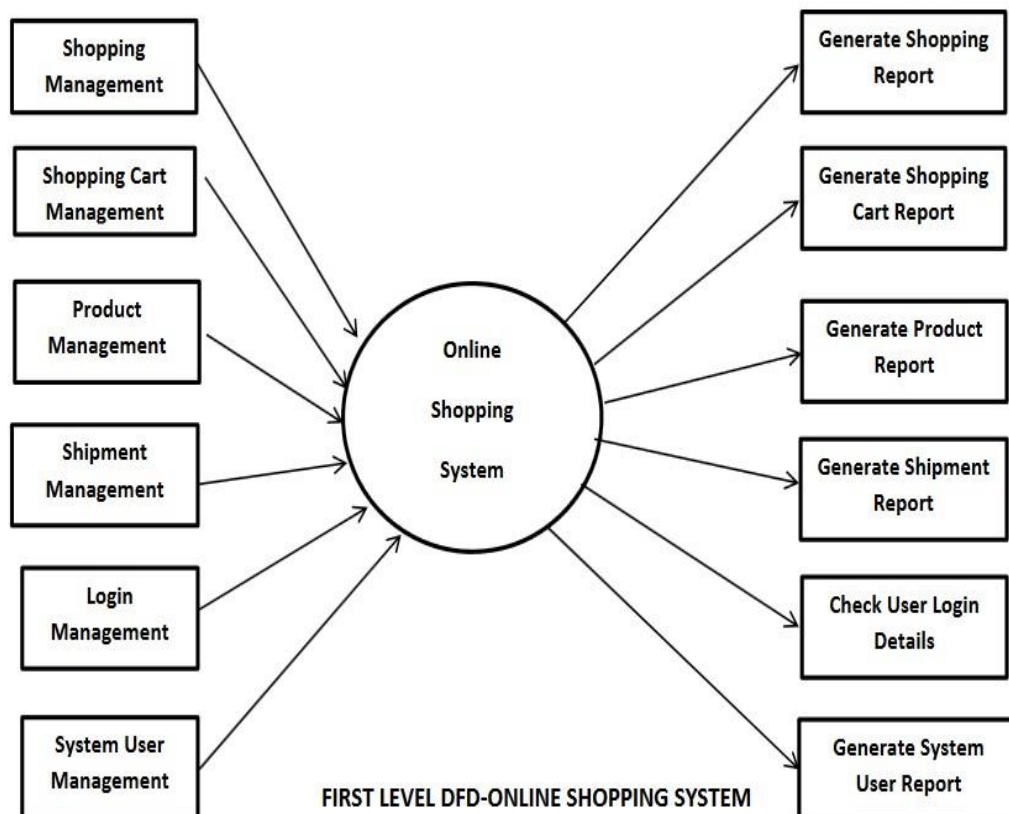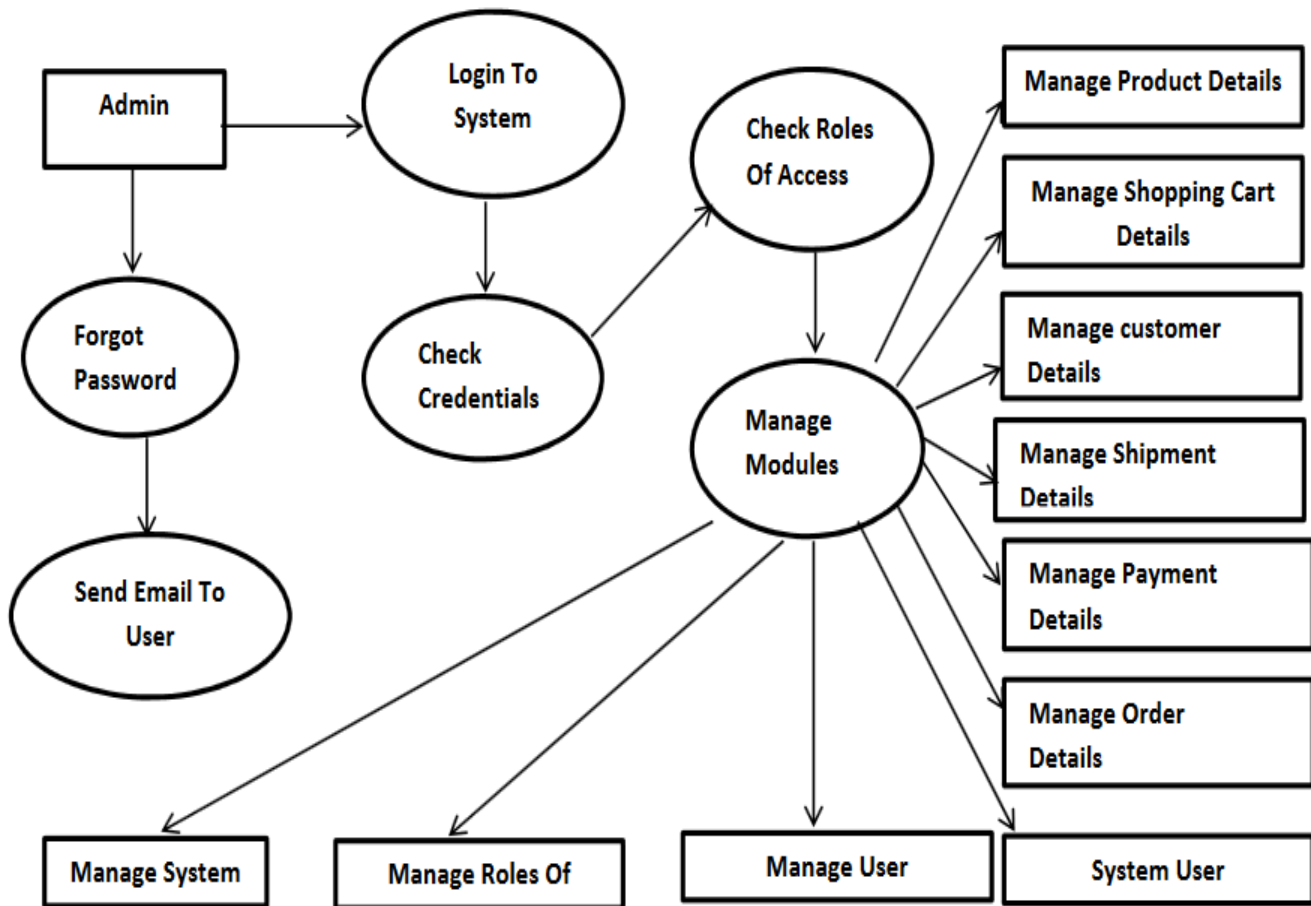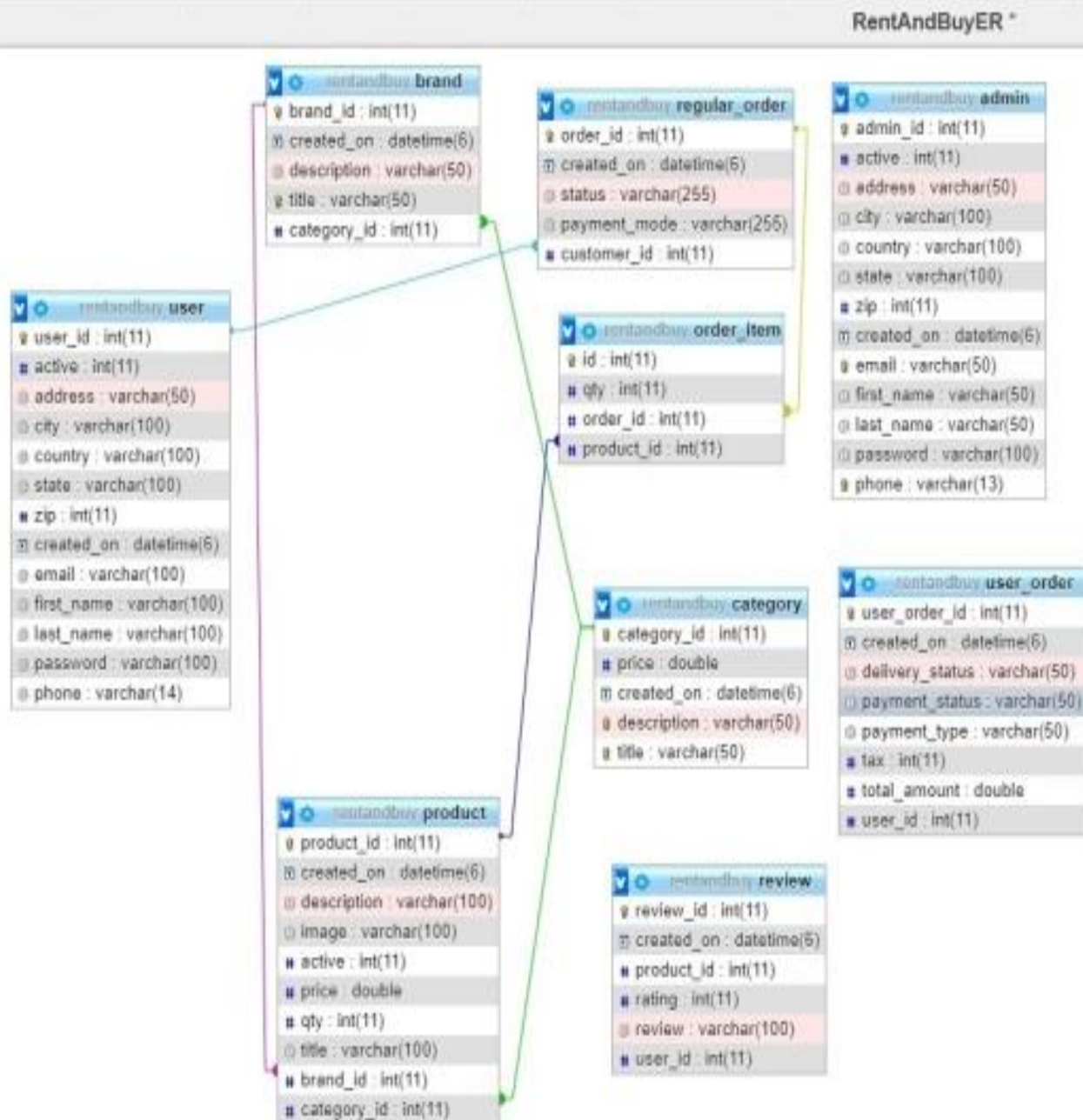## Activity Diagram for Admin Side
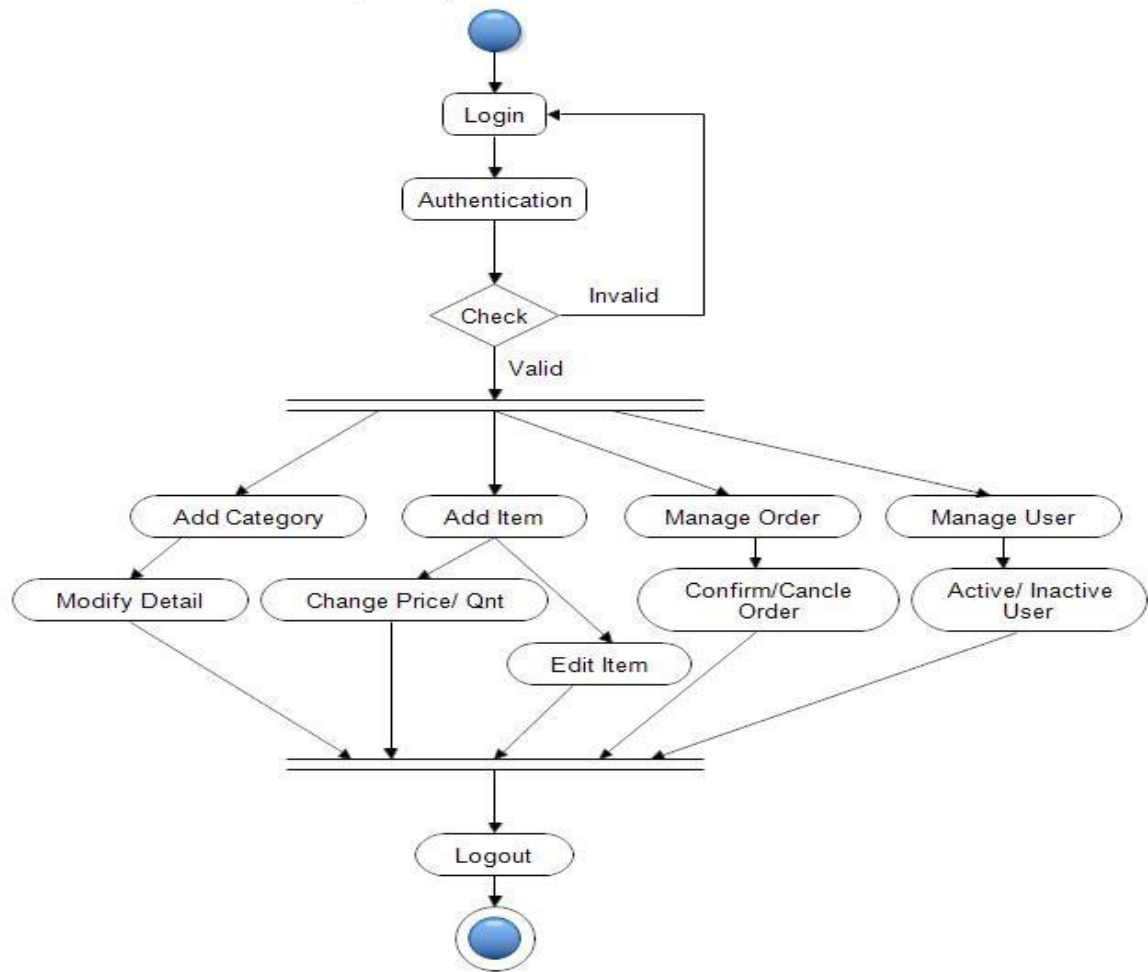
Figure 2: **Activity Diagram for Admin**

Data Flow Diagram

ZERO LEVEL DFD-ONLINESHOPPINGSYSTEM
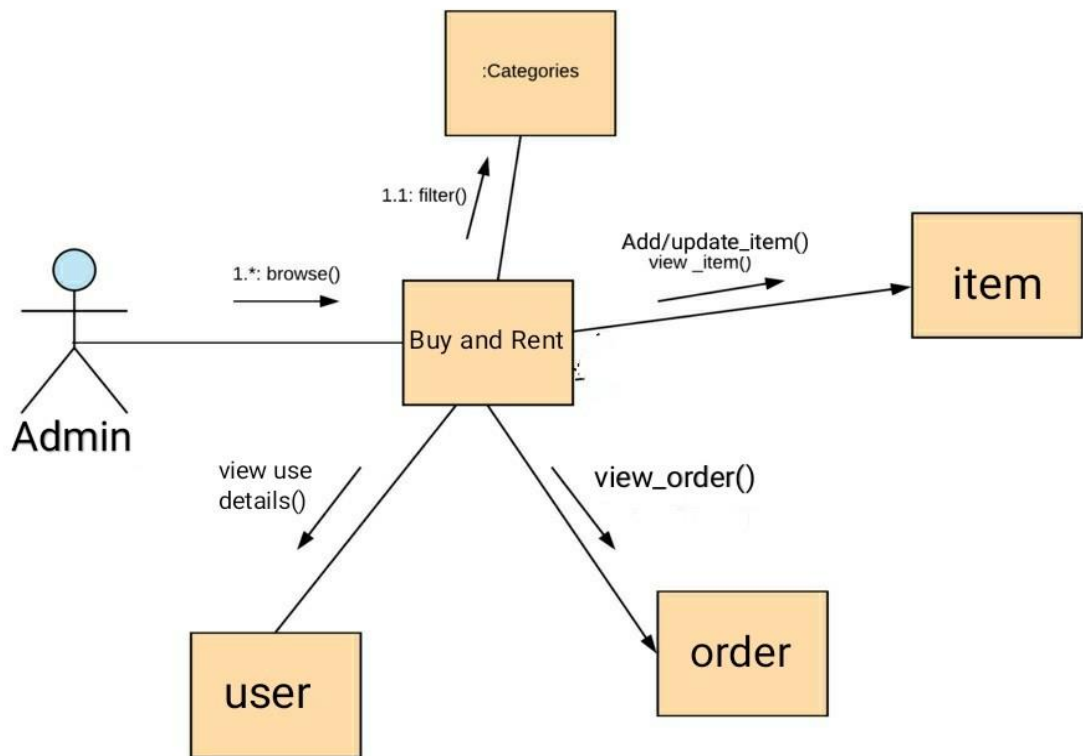

FIRST LEVEL DFD-ONLINE SHOPPING SYSTEM

SECOND LEVEL DFD-ONLINE SHOPPING SYSTEM

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ER-Diagram

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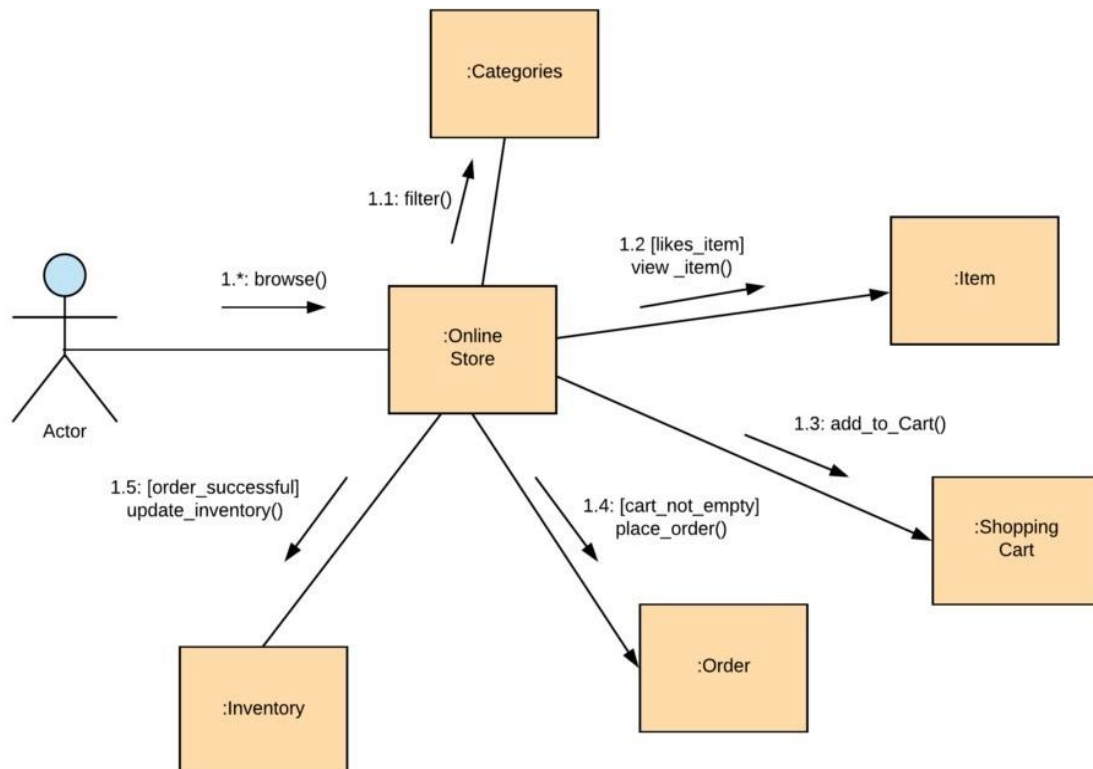
Table Structure

Admin:

```
+------------+--------------+------+-----+-------------------+----------------+
| Field      | Type         | Null | Key | Default           | Extra          |
+------------+--------------+------+-----+-------------------+----------------+
| id         | int(11)      | NO   | PRI | NULL              | auto_increment |
| active     | int(11)      | YES  |     | NULL              |                |
| created_on | timestamp    | NO   |     | CURRENT_TIMESTAMP |                |
| email      | varchar(100) | YES  |     | NULL              |                |
| first_name | varchar(100) | YES  |     | NULL              |                |
| last_name  | varchar(100) | YES  |     | NULL              |                |
| password   | varchar(100) | YES  |     | NULL              |                |
| phone      | varchar(20)  | YES  |     | NULL              |                |
+------------+--------------+------+-----+-------------------+----------------+
```

User:

```
+------------+--------------+------+-----+-------------------+----------------+
| Field      | Type         | Null | Key | Default           | Extra          |
+------------+--------------+------+-----+-------------------+----------------+
| id         | int(11)      | NO   | PRI | NULL              | auto_increment |
| address    | varchar(100) | YES  |     | NULL              |                |
| city       | varchar(100) | YES  |     | NULL              |                |
| country    | varchar(100) | YES  |     | NULL              |                |
| created_on | timestamp    | NO   |     | CURRENT_TIMESTAMP |                |
| email      | varchar(100) | YES  |     | NULL              |                |
| firstname  | varchar(100) | YES  |     | NULL              |                |
| lastname   | varchar(100) | YES  |     | NULL              |                |
| password   | varchar(100) | YES  |     | NULL              |                |
| phone      | varchar(100) | YES  |     | NULL              |                |
| zip        | varchar(100) | YES  |     | NULL              |                |
+------------+--------------+------+-----+-------------------+----------------+
```

Brand:

```
+-------------+--------------+------+-----+-------------------+----------------+
| Field       | Type         | Null | Key | Default           | Extra          |
+-------------+--------------+------+-----+-------------------+----------------+
| id          | int(11)      | NO   | PRI | NULL              | auto_increment |
| created_on  | timestamp    | NO   |     | CURRENT_TIMESTAMP |                |
| description | varchar(100) | YES  |     | NULL              |                |
| title       | varchar(100) | YES  |     | NULL              |                |
| category    | int(11)      | YES  | MUL | NULL              |                |
+-------------+--------------+------+-----+-------------------+----------------+
```

Category:

```
+-------------+--------------+------+-----+-------------------+----------------+
| Field       | Type         | Null | Key | Default           | Extra          |
+-------------+--------------+------+-----+-------------------+----------------+
| id          | int(11)      | NO   | PRI | NULL              | auto_increment |
| created_on  | timestamp    | NO   |     | CURRENT_TIMESTAMP |                |
| description | varchar(100) | YES  |     | NULL              |                |
| title       | varchar(100) | YES  |     | NULL              |                |
+-------------+--------------+------+-----+-------------------+----------------+
```

Product:

```
+---------------+----------------+--------+------+---------------------+----------------+
| Field         | Type           | Null   | Key  | Default             | Extra          |
+---------------+----------------+--------+------+---------------------+----------------+
| id            | int(11)        | NO     | PRI  | NULL                | auto_increment |
| created_on    | timestamp      | NO     |      | CURRENT_TIMESTAMP   |                |
| description   | varchar(100)   | YES    |      | NULL                |                |
| image         | varchar(100)   | YES    |      | NULL                |                |
| active        | int(11)        | YES    |      | NULL                |                |
| price         | double         | YES    |      | NULL                |                |
| title         | varchar(100)   | YES    |      | NULL                |                |
| brand         | int(11)        | YES    | MUL  | NULL                |                |
| category      | int(11)        | YES    | MUL  | NULL                |                |
+---------------+----------------+--------+------+---------------------+----------------+
```

Orders:

```
+---------------+----------------+--------+------+---------------------+----------------+
| Field         | Type           | Null   | Key  | Default             | Extra          |
+---------------+----------------+--------+------+---------------------+----------------+
| id            | int(11)        | NO     | PRI  | NULL                | auto_increment |
| created_on    | timestamp      | NO     |      | CURRENT_TIMESTAMP   |                |
| deliverystatus| varchar(100)   | YES    |      | NULL                |                |
| paymentstatus | varchar(100)   | YES    |      | NULL                |                |
| paymenttype   | varchar(100)   | YES    |      | NULL                |                |
| quantity      | int(11)        | YES    |      | NULL                |                |
| totalamount   | double         | YES    |      | NULL                |                |
| user          | int(11)        | YES    | MUL  | NULL                |                |
+---------------+----------------+--------+------+---------------------+----------------+
```

Order_items

```
+-----------+-----------+--------+------+-----------+----------------+
| Field     | Type      | Null   | Key  | Default   | Extra          |
+-----------+-----------+--------+------+-----------+----------------+
| id        | int(11)   | NO     | PRI  | NULL      | auto_increment |
| qty       | int(11)   | YES    |      | NULL      |                |
| product   | int(11)   | YES    | MUL  | NULL      |                |
| orders    | int(11)   | YES    | MUL  | NULL      |                |
+-----------+-----------+--------+------+-----------+----------------+
```

Conclusion

The internet has opened so many opportunities for doing business online, and e-commerce is one of the most popular ones. Not only does it require low investment, it actually is a type of business that does not require a full-time commitment,

especially if you are selling a limited number of products. You just make an online presence and promote the business here and there using both free and paid methods.

However, as each business, it has its positive and negative sides. If you want to achieve success, you will have to create an organized strategy which is based on realistic goals and comprehensive analysis of the market.

Future Scope of E-Commerce site

In terms of future of e-commerce in the 21st century, experts predict the promising and glorious figures. In the foreseeable future, e-commerce will be confirmed as the major tool of sale for the goods and services. Successful e-commerce will become the notion which will be inseparable from the web because e-shopping is becoming more and more popular and natural. Thus, prevailing to future trends, e-commerce will have huge potential growth in sales and promotion.

Each year, there is a continuous growth in e-commerce deals. The volumes of sales for online store are much higher than the brick and mortars. To the present day, the internet sales boom the foundation for magnificent e-commerce future. To attract more customers, owners will not only have to increase the number of services available to them but also have to pay more attention to such elements like design, good presentation, etc.