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Documentation On

“Online Jewelry Store”
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Project Guide

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1. Introduction

This System provides an easy solution to customers to buy the jewelries without going to the shop physically specially in COVID-19 pandemic. Also, it's very tedious to visit different shops specially for weddings, events etc. and do lot of formalities. If someone buy a new thing, he can buy online with the help of Internet. Online shopping definitely is the thing in this digital age. You have full control of your shopping experience, from the selection to check out. You can also purchase a product in peace without anyone judging your choices or salespersons talking you into buying the more expensive piece.

Document Purpose

The main aim of Online Jewelry Store is to develop an interactive and dynamic website that provides the customer with a functionality to search for their products over a wide range of Jewelry products and buy at any time according to the user's convenience.

This Online Jewelry Store 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 Jewelry Store:

A tool through which shopper can add variety of products, customer can register himself and have access to variety of products, he can order, buy the product also.

Bill generation:

This system will be able to generate bill according to the customer shopping one copy also will be saved to the database.

Problem Statement

Traditional shopping can be very time consuming going and visiting different shop if you haven't made the decision of what to buy. This system reduces limitations. It is so convenient that you can shop anytime and anywhere and no need to go into hassle of paper work as bill will be generated and customers have access to variety of products, can order, buy, adding selected product to cart etc. without physically visiting the shop. Admin will be able to perform all crud operation on verity of products.

Product Scope

This project traverses a lot of areas ranging from business concept to computing field, and required to perform several researches to be able to achieve the project objectives. The area covers include:

- This includes study on how the daily Barber shop appointment process involved and opportunity that exist for improvement.
- J2EE Technology used for the development of the application.
- General customers as well as the shop owner will be able to use the system effectively.
- Web-platform means that the system will be available for access 24/7 except when there is a temporary server issue which is expected to be minimal.

Aims & Objectives

Specific goals are: -

- To produce a web-based system that allow the store owner/shopper to add/update/delete products and provide functionalities to its role.
- To ease customers physical efforts of going to different shops and do lot of formalities
- Providing customers access to wide variety of designs and models of the products.

Overall Description

Product Perspective:

2.1.1 Existing system function:

Traditional shopping can be very time consuming going and visiting different shop if you haven't made the decision of what to buy. It is very physically tiring to visit different shops specially if there is wedding or some kind of function also it is not safe to visit shops in covid-19 situation.

- **III. PROPOSED SYSTEM**

Product functionality:

online jewelry store provides the features for admin, customers. It includes several functionalities describes as below:

Product Management:

It provides facility to add, update, delete and view the products to store owner/admin.

Customer Management:

It provides facility to add, update, delete and view the products to store owner/admin. Customers can view their product details and also order, buy, adds them to cart

Product Management:

It provides facility to add, update, delete and view the products to store owner/admin. Customers can view their product details and also order, buy, adds them to cart.

Customer Management:

Admin can see the customer report. Customers can browse through different products, select the different products adds them to the shopping cart and place order against them.

Order Processing:

It Provides customers to place the order against selected product and order details will be shown after.

Payment Processing:

In this the payment will be done by customer against the selected order via card.

Generating Bill:

After payment is done one bill receipt will be generated.

Benefits of E-Barber Shop

- This online jewelry store solution is fully functional and flexible.
- It is very easy to use.
- This online jewelry store system helps store owner to maintain his products.
- It saves a lot of time, money and labor.
- Eco-friendly: The monitoring of the online jewelry store and the overall business becomes easy and includes the least of paper work.
- The application acts as an office that is open 24/7.
- It increases the efficiency as the users from anywhere can access so scope is more for benefit.

Users and Characteristics:

Admin:

- Admin can login to the system.
- View the list products.
- Add new products.
- Delete added products.
- Update existing products.
- View customers.
- Customer can logout from system

Customer:

- Admin can login to the system.
- View the list products.
- Add new products.
- Delete added products.
- Update existing products.
- View customers.
- Customer can logout from system

Operating Environment:

Server Side:

Processor: Intel Dual Core

HDD: Minimum 500GB Disk Space

RAM: Minimum 4GB

OS: Windows 7,8.1

Database: MySQL.

Client Side (minimum requirement):

Processor: Intel Dual Core

HDD: Minimum 80GB Disk Space

RAM: Minimum 2GB

OS: Windows 7.

Design and Implementation Constraints:

- The application will use HTML 5, CSS, JSP, Bootstrap 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 Online Jewelry Store system is a web-based application, internet connection must be established.
- The Online Jewelry Store will be used on PCs and will function via internet 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:

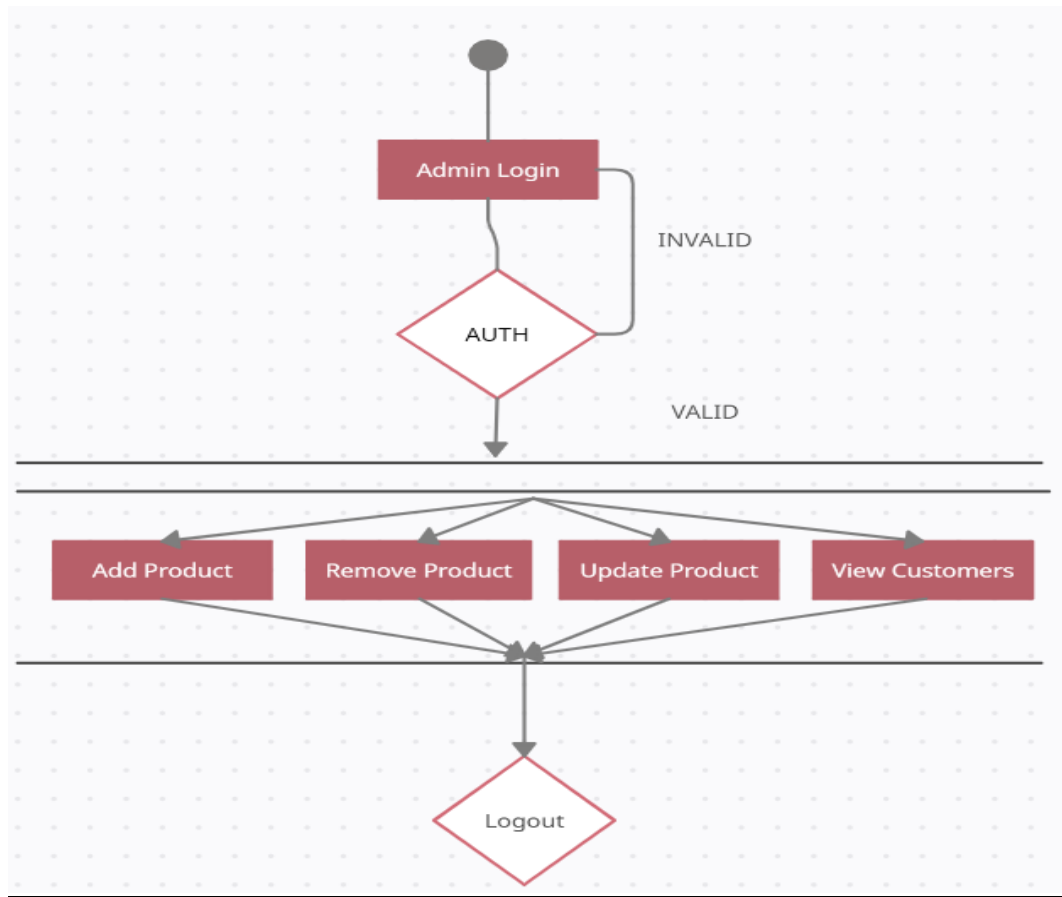
OS: Windows 7, Linux

Web Browser:

The system is a web-based application; clients need a modern web browser such as Mozilla Firefox, 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 fulfil the request fired by the user.

System Design**1.Admin activity****Figure 1: Admin Activity Diagram**

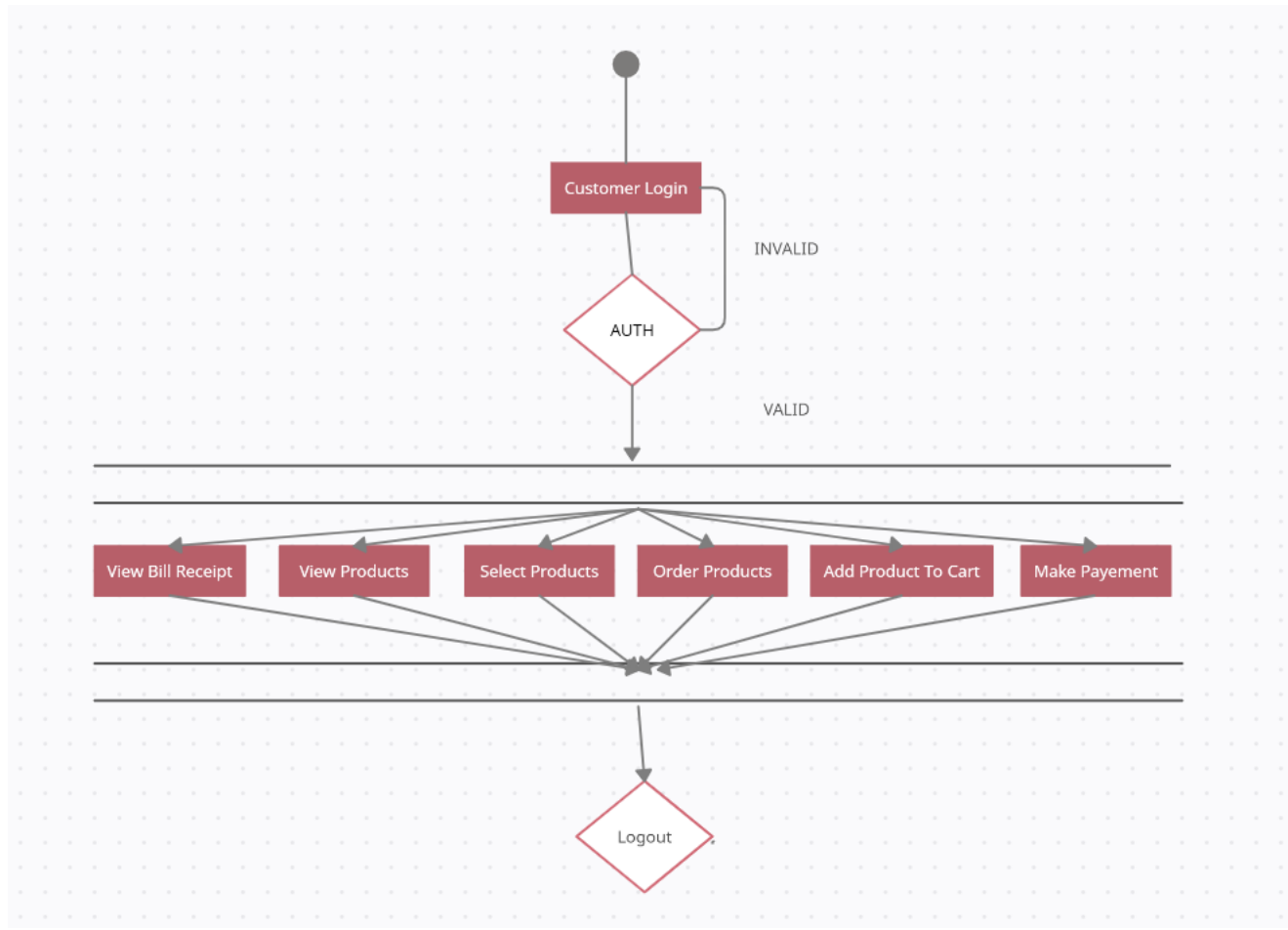
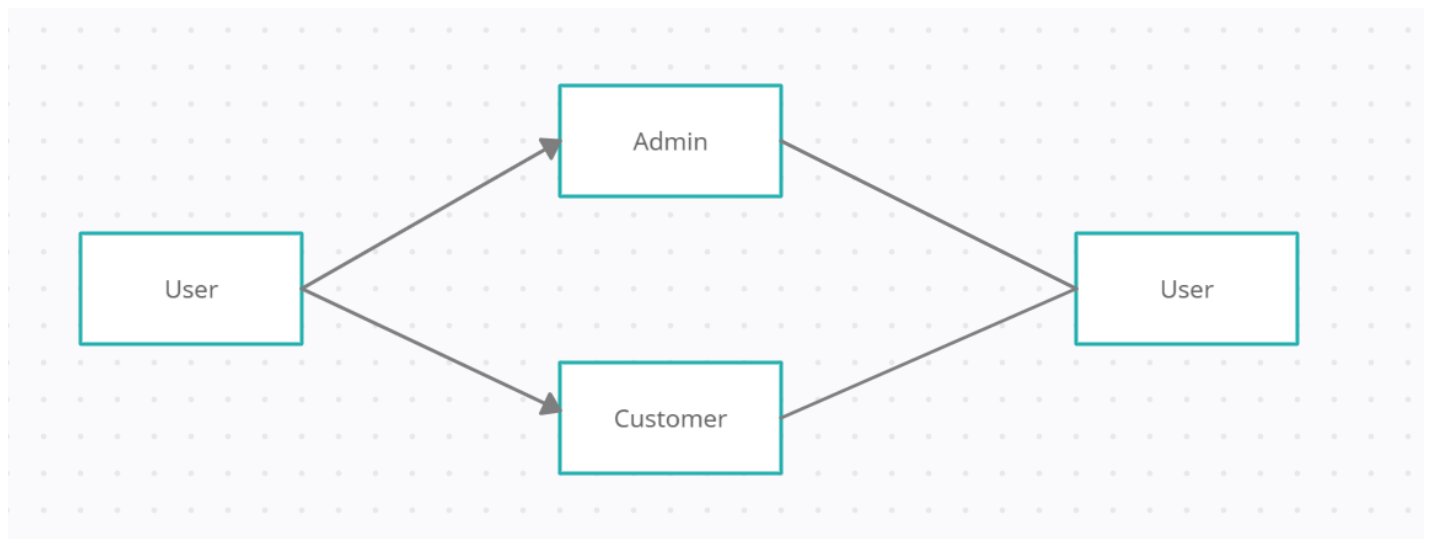


Figure 2: Customer Activity Diagram

Data Flow Diagram**Figure 3: Level 0 Data Flow Diagram****Figure 4: Level 1 Data Flow Diagram**

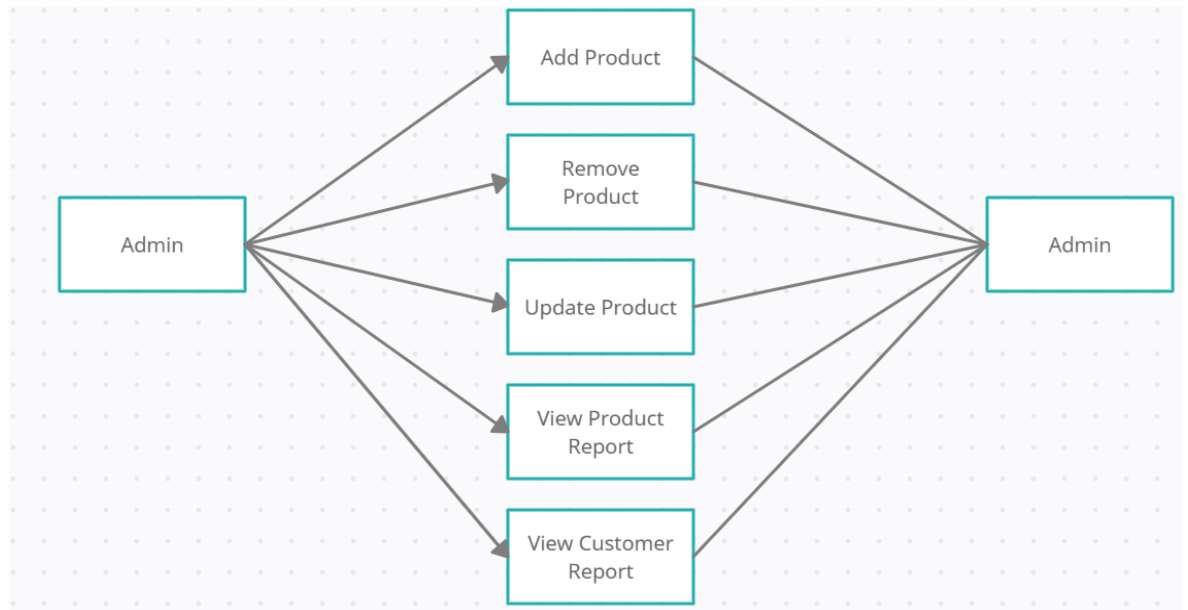


Figure 5: Level 2 Data Flow Diagram for Admin

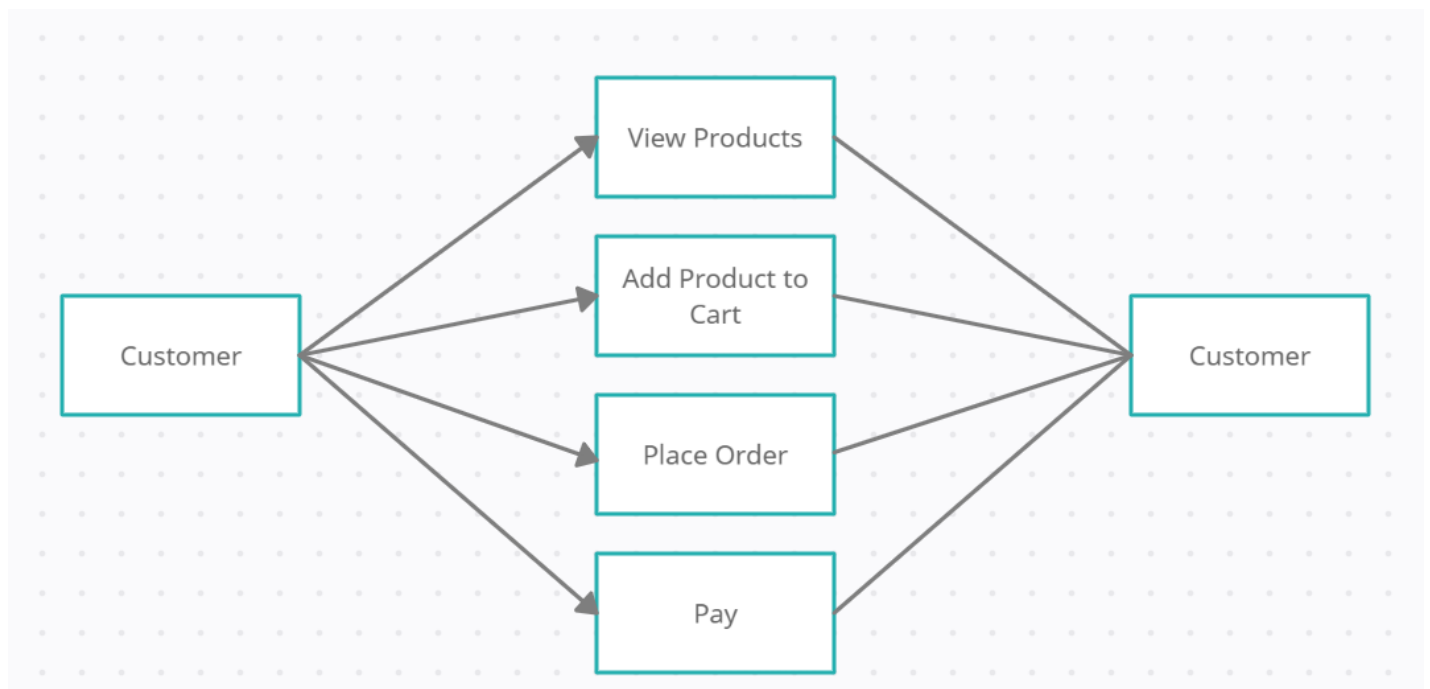
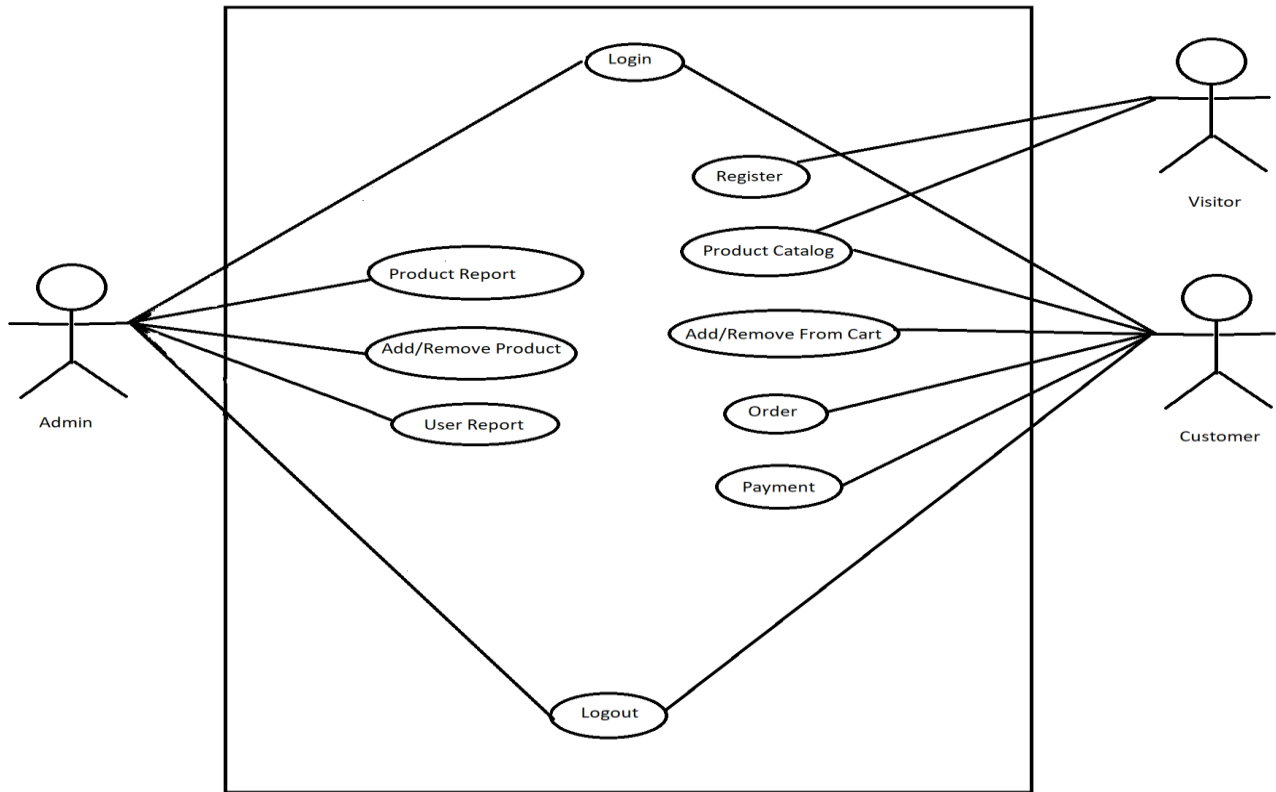
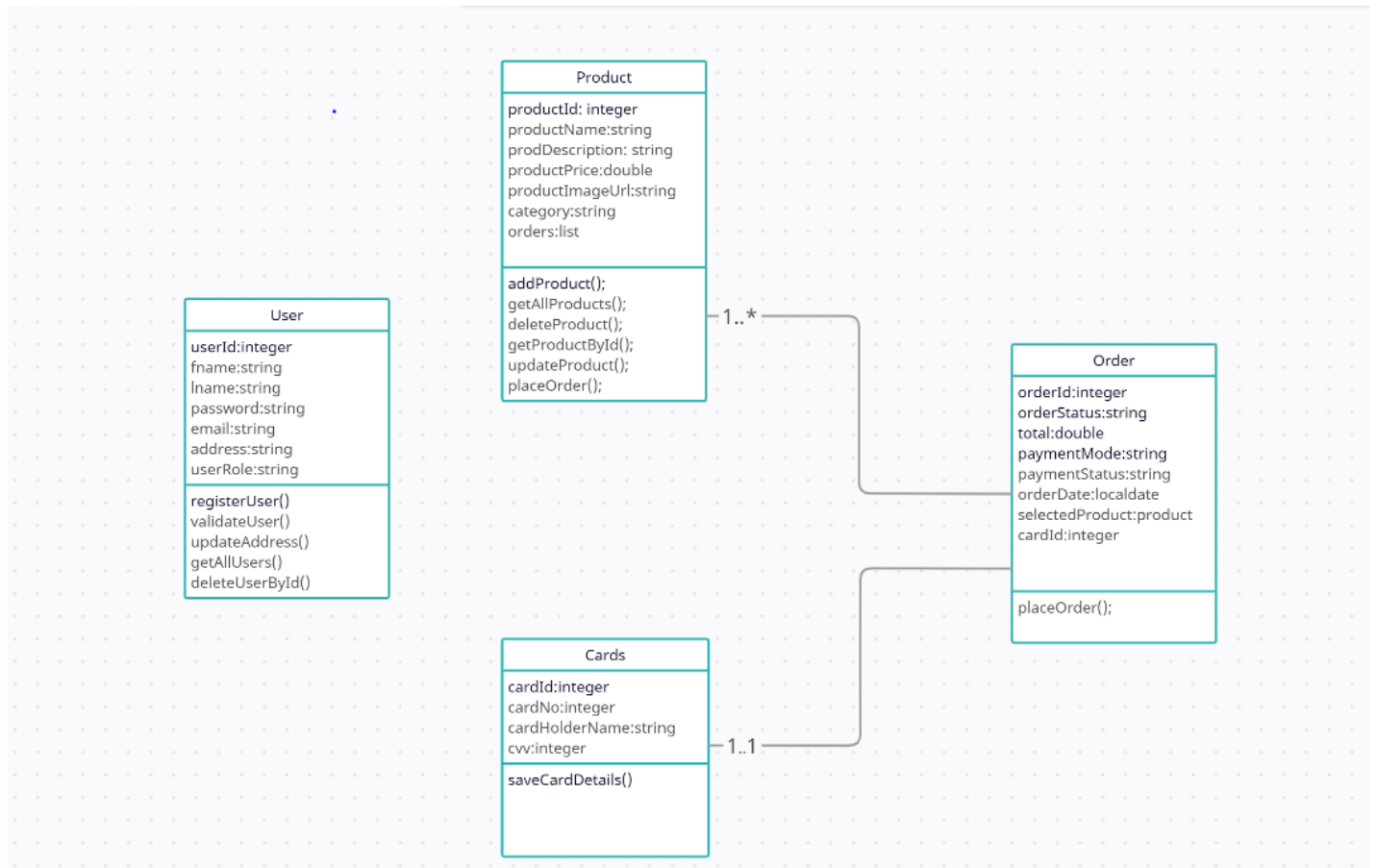


Figure 6: Level 2 Data Flow Diagram for Customer

Use Case Diagram**Figure 7: Use Case Diagram**

Class Diagram**Figure 8: Class Diagram**

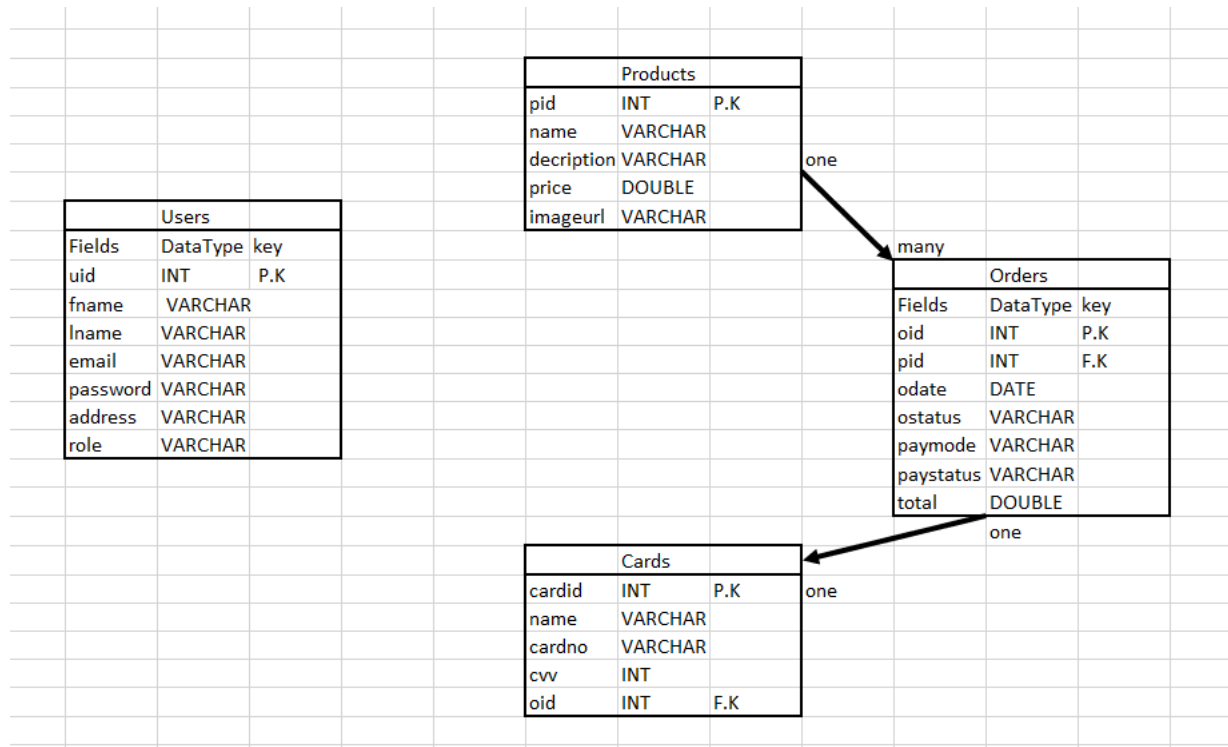
ER Diagram**Figure 9: ER Diagram**

Table Structure

Users:

<u>Field</u>	<u>Type</u>	<u>Null</u>	<u>Key</u>	<u>Default</u>	<u>Extra</u>
<u>uid</u>	int (11)	NO	PRI	NULL	Auto increment
<u>firstname</u>	varchar(20)	NO		NULL	
<u>lastname</u>	varchar(20)	NO		NULL	
<u>email</u>	varchar(100)	NO		NULL	
<u>address</u>	varchar(100)	NO		NULL	
<u>password</u>	varchar(40)	NO		NULL	
<u>role</u>	varchar(20)	NO		NULL	

Orders:

<u>Field</u>	<u>Type</u>	<u>Null</u>	<u>Key</u>	<u>Default</u>	<u>Extra</u>
<u>orid</u>	integer(11)	NO	PRI	NULL	Auto increment
<u>orderdate</u>	Date	NO		NULL	
<u>orstaus</u>	varchar(20)	NO		NULL	
<u>paymentmode</u>	varchar(20)	NO		NULL	
<u>paymentstatus</u>	varchar(20)	NO		NULL	
<u>total</u>	Double	NO		NULL	
<u>pid</u>	integer	NO	FKEY	NULL	

Products:

<u>Field</u>	<u>Type</u>	<u>Null</u>	<u>Key</u>	<u>Default</u>	<u>Extra</u>
<u>prid</u>	integer	NO	PRI	NULL	Auto increment
<u>prcategory</u>	varchar(30)	NO		NULL	
<u>prdescription</u>	varchar2(100)	NO	UNI	NULL	
<u>primageurl</u>	varchar(200)	NO		NULL	
<u>prname</u>	varchar(30)	NO	FKEY	NULL	
<u>prprice</u>	double	NO		NULL	

Cards:

<u>Field</u>	<u>Type</u>	<u>Null</u>	<u>Key</u>	<u>Default</u>	<u>Extra</u>
<u>cardid</u>	integer	NO	PRI	NULL	Auto increment
<u>name</u>	varchar(20)	NO		NULL	
<u>cardno</u>	Integer(20)	NO		NULL	
<u>cvv</u>	Integer(10)	NO		NULL	
<u>oid</u>	integer	NO	FKEY	NULL	

Conclusion

Online jewelry Store that allows customers to check for various jewelry available at the online store and purchase online. The project consists of list of jewelry products displayed in various model and designs. The application provides facility to add/remove/update products facilities to shop owner. Also allows customer to facility of placing order, adding product to cart etc.

Future Scope

This project can be enhanced further by adding other categories and products. The software is flexible enough to be modified and implemented as per future requirements. Message and Email alerts for various happenings can be added to the system so that users do not miss the updates and happenings of the system. New Shipment department can be added for product delivery purpose.

7 References

[1]. Java and advance java lecture of miss. Madhura Anturkar.

ONLINE REFERENCE

[1] <https://www.ejohri.com/>

[2] <https://docs.oracle.com/javase/tutorial/>

