ELECTRONICS STORE MANAGEMENT SYSTEM

By

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Under the guidance of

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ABSTRACT

In today's world it's very difficult for a person to maintain store inventory it includes a lot of effort. So, this project will help the users to maintain store inventory effectively. Users can maintain store inventory online. The user even has a facility to add, modify, delete, and update the products. This application is used by the retailers via the Internet. This system is designed to provide automation support for the process of maintaining electronics inventory so that users can save time in maintaining inventory manually.

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Chapter

1. INTRODUCTION

1. INTRODUCTION

Electronic Store Management System is a web based online application. It allows the administrator to perform different operations and maintain the stock correctly. The different operations include adding the stock, checking the branch details, updating the stock, deleting the stock, and searching for products based on the product name.

If the searched item is not present in the database, we will get a message as ‘no records found’.

In the delete operation, we have to delete the item by selecting the product name

We can also update the stock inventory for branches and products using their

Respective ID’s.

1.1 Purpose

The main aim of this project to maintain the electronics stock in inventory accurately by performing all the crud operations on the stock. This APP facilitates search operation based on product name and fetches corresponding product details along with prices.

1.2 Scope of the Project

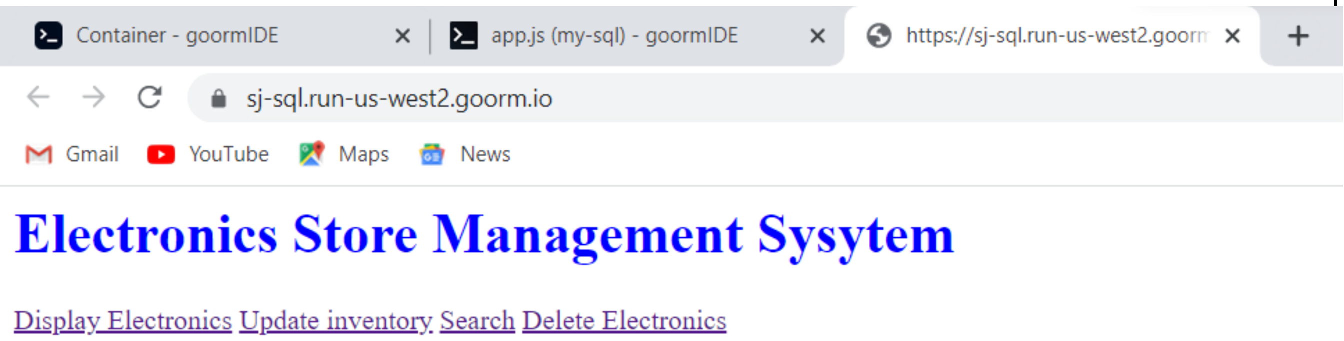
In this application, stock will can be updated, along with that we can search, add, and delete the stocks. According to survey these types of websites has an increase of 90% of users these days.

2 DETAILED PROJECT VIEW

2. DETAILED PROJECT VIEW

- Home page of Electronics Store Management system include link to all the other pages. Different pages in the system include Display Electronics, Update Inventory , Delete Electronics, and Search operation.

Home page screen short



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Electronics Store Management Sysytem

Display Electronics Update inventory Search Delete Electronics

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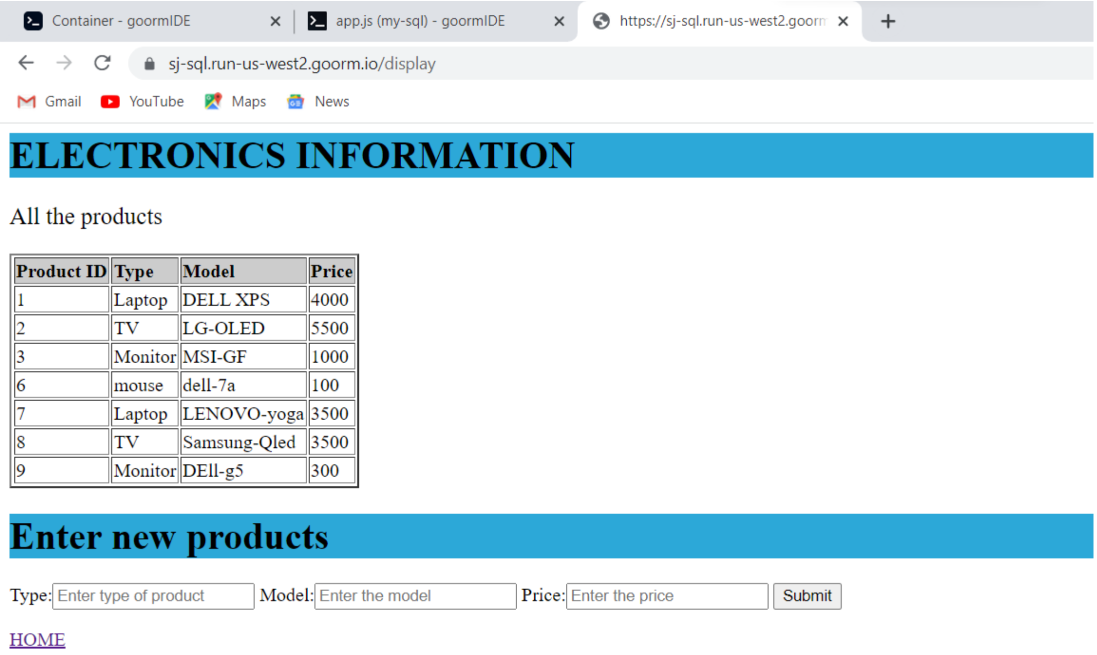
Click on Display Electronics button in home page, that will redirect to a new page. This page will show all the details of products that includeI D, type,name, and price.

Display Page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ELECTRONICS INFORMATION

All the products

Product ID	Type	Model	Price
1	Laptop	DELL XPS	4000
2	TV	LG-OLED	5500
3	Monitor	MSI-GF	1000
6	mouse	dell-7a	100
7	Laptop	LENOVO-yoga	3500
8	TV	Samsung-Qled	3500
9	Monitor	DEll-g5	300

Enter new products

Type: Enter type of product Model: Enter the model Price: Enter the price Submit

HOME

From Display page we have Add Stock button that will enter new products.We can give details related to the product and then click Add the product button. It will check whether all the given details are correct based on verifications and then it will insert the details into the database

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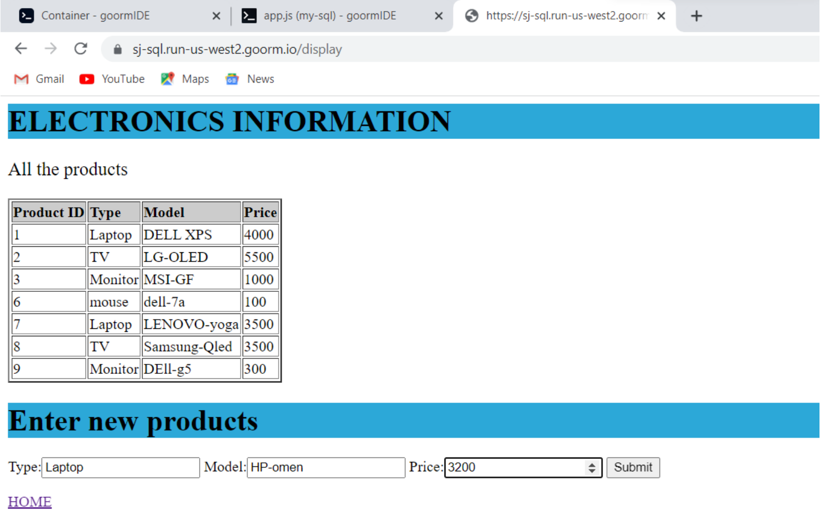
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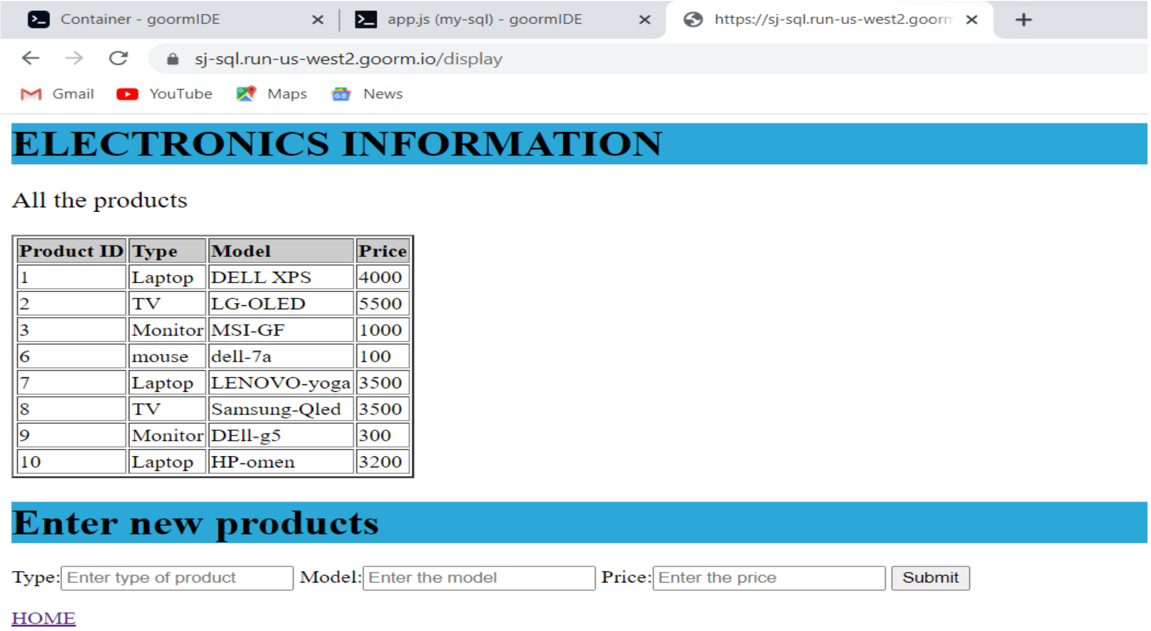
2	TV	LG-OLED	5500
3	Monitor	MSI-GF	1000
6	mouse	dell-7a	100
7	Laptop	LENOVO-yoga	3500
8	TV	Samsung-Qled	3500
9	Monitor	DEll-g5	300

Enter new products

Type: Laptop Model: HP-omen Price: 3200 Submit

HOME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6	mouse	dell-7a	100
7	Laptop	LENOVO-yoga	3500
8	TV	Samsung-Qled	3500
9	Monitor	DEll-g5	300
10	Laptop	HP-omen	3200

Enter new products

Type: Enter type of product Model: Enter the model Price: Enter the price Submit

HOME

From Display page,you can click home and redirect to homepage, you can select update inventory to update the quantity for branch and product using their respective ID’s.It will update the available quantity of stock.

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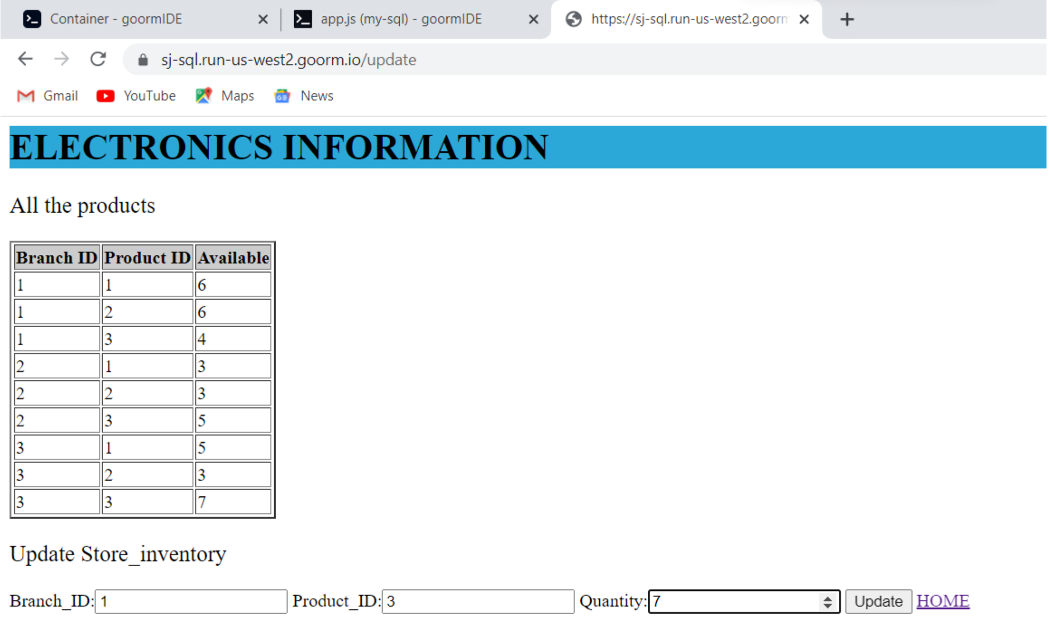

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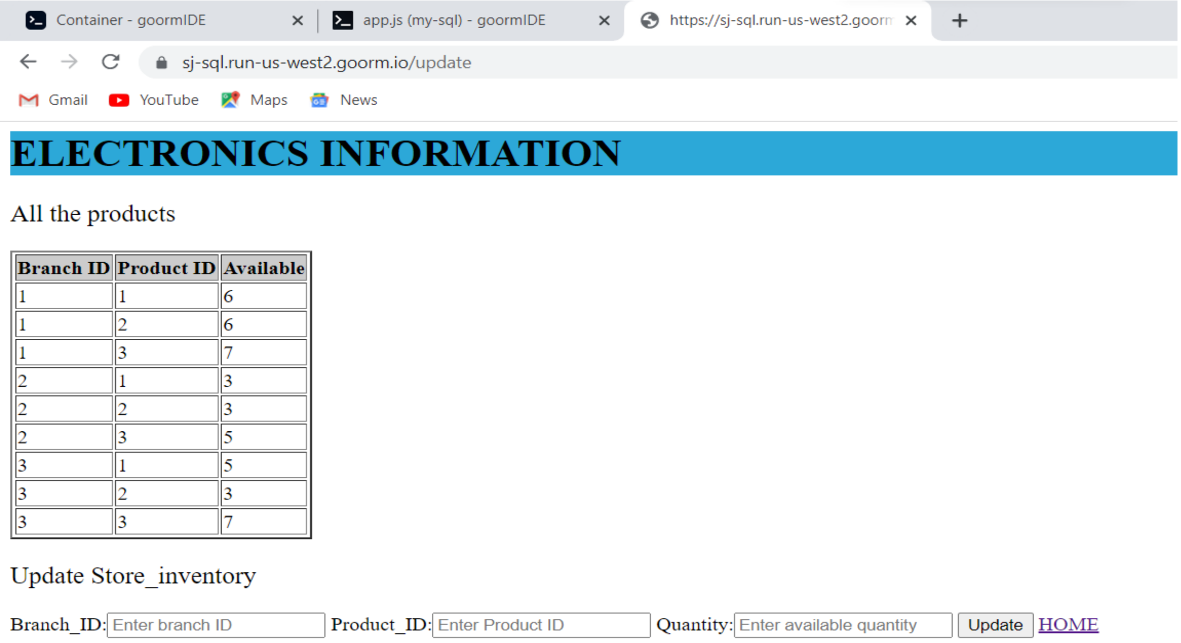
ELECTRONICS INFORMATION

All the products

Branch ID	Product ID	Available
1	1	6
1	2	6
1	3	4
2	1	3
2	2	3
2	3	5
3	1	5
3	2	3
3	3	7

Update Store_inventory

Branch_ID: 1 Product_ID: 3 Quantity: 7 Update HOME



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ELECTRONICS INFORMATION

All the products

Branch ID	Product ID	Available
1	1	6
1	2	6
1	3	7
2	1	3
2	2	3
2	3	5
3	1	5
3	2	3
3	3	7

Update Store_inventory

Branch_ID: Enter branch ID Product_ID: Enter Product ID Quantity: Enter available quantity Update HOME

Delete page is used for deleting the products from database using the product ID.

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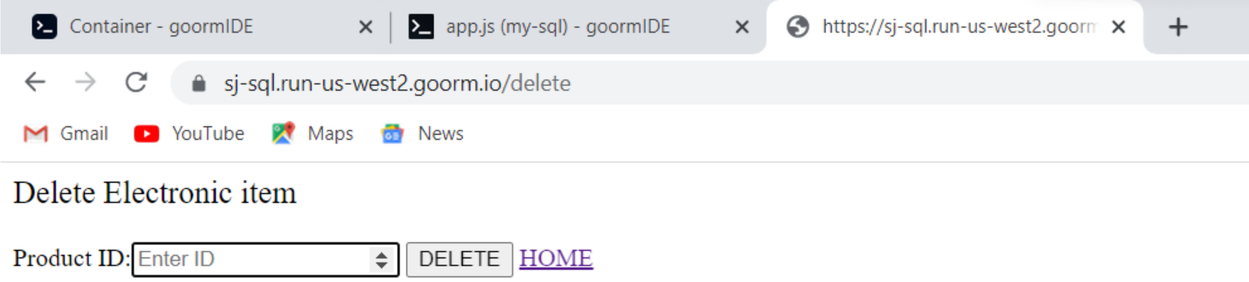
Deleting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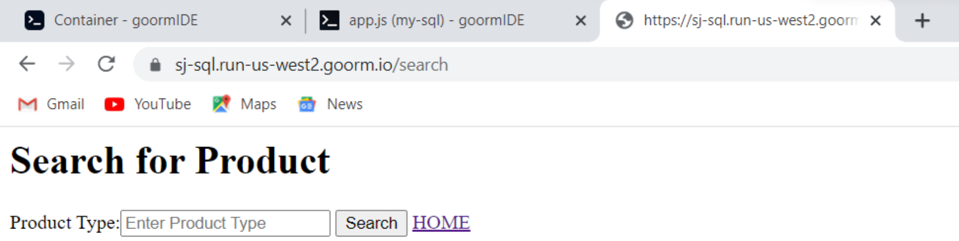
Delete Electronic item

Product ID: Enter ID DELETE HOME

Search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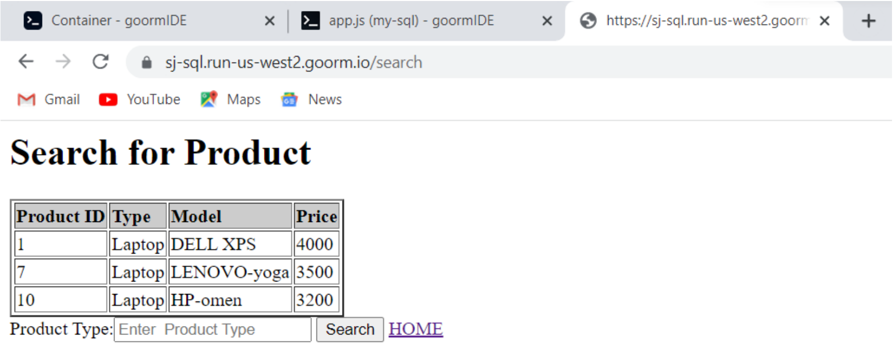
Search for Product

Product Type: Enter Product Type Search HOME

WE can search using product type(i.e Tv,Laptop,Monitor etc..)and it will display all the propducts of that type

Searched Product



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Search for Product

Product ID	Type	Model	Price
1	Laptop	DELL XPS	4000
7	Laptop	LENOVO-yoga	3500
10	Laptop	HP-omen	3200

Product Type: Enter Product Type

3. DATABASE DESIGN

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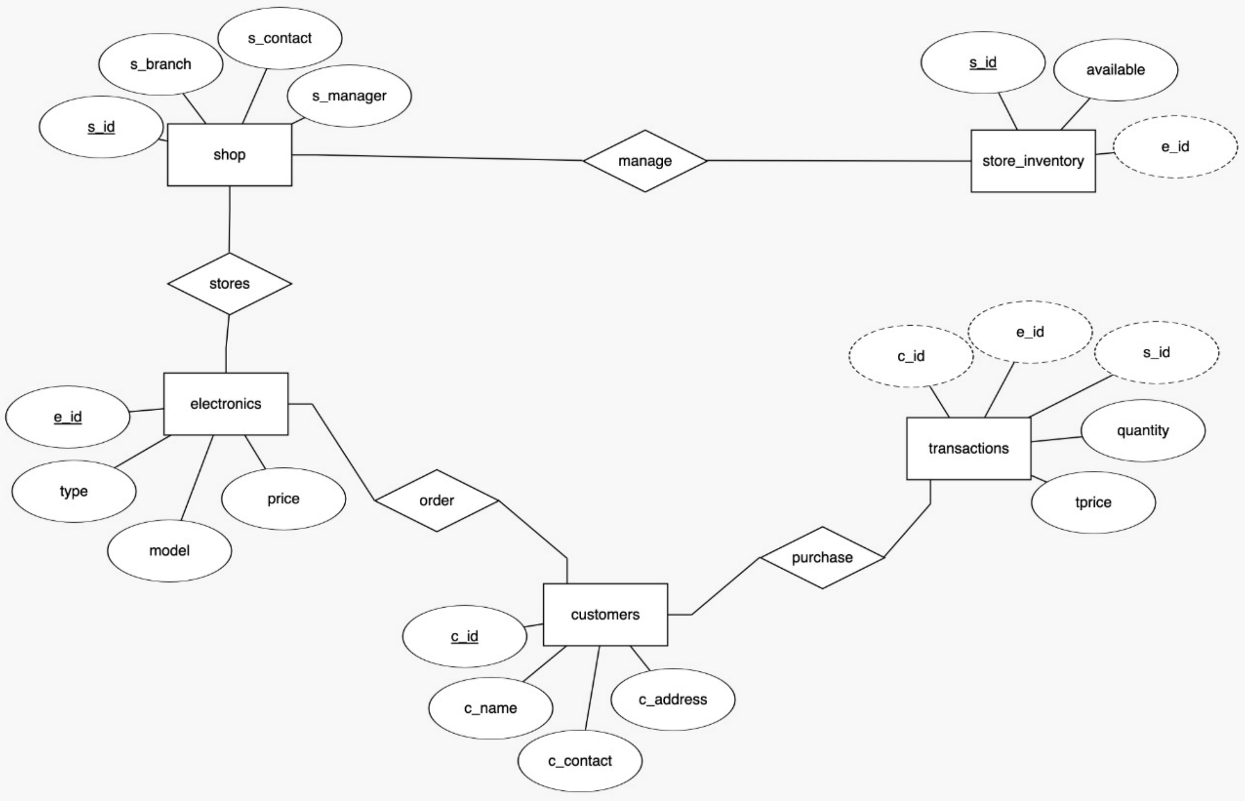
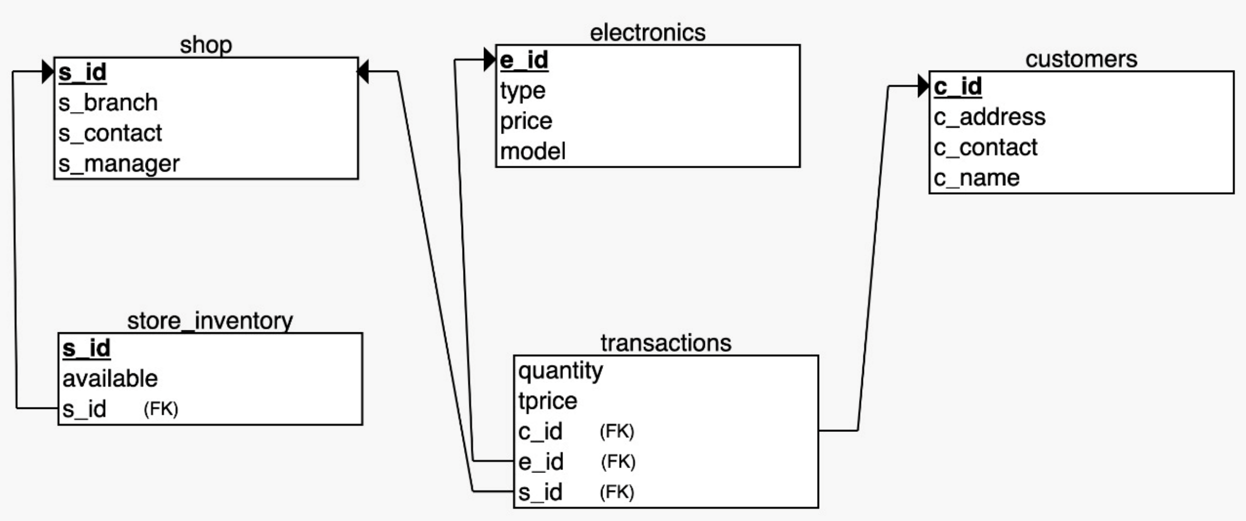
3.1 ENTITY RELATIONSHIP DIAGARAM

Below is the ER diagram, which shows the tables used in the database, attributes related to the table and the relationships between the tables in inventory management system.



3.2 SCHEMA DIAGRAM

Below is the Schema diagram, which shows the tables used in the database, attributes related to the table and constraints in the database like Unique, primary key and foreign key.



3.3 RELATIONAL SCHEMA

Below is the Relational Schema diagram, which shows the tables used in the database, attributes related to the table and constraints in the database like primary key and foreign key in written format.

```
shop(s_id int AUTO_INCREMENT,s_branch varchar(20),s_contact
varchar(20),s_manager varchar(20), primary key(s_id));

electronics(e_id int AUTO_INCREMENT,type varchar(20),model varchar(20),price
numeric check(price>=0),primary key(e_id));
```

```
customers(c_id int AUTO_INCREMENT,c_name varchar(20),c_contact
numeric,c_address varchar(20),primary key(c_id));

store_inventory(s_id int,e_id int,available int check(available>0),foreign key(s_id)
references shop(s_id) on delete cascade on update cascade, foreign key(e_id)
references electronics(e_id) on delete cascade on update cascade);

create table transactions(c_id int ,e_id int,s_id int,quantity int default 1
check(quantity>=1),tprice numeric check(tprice>=0),
                    foreign key(c_id) references customers(c_id) on delete cascade on update
cascade,
                    foreign key(e_id) references electronics(e_id) on delete cascade on
update cascade,
                    foreign key(s_id) references shop(s_id) on delete cascade on update
cascade
                    );
```

4. LIMITATIONS

4. LIMITATIONS

Electronics store management system currently has the following limitations:

- While modifying stock in the application, we can only modify price and quantity they can’t update remaining details like branch and name related to the product.
- We don’t have an option to add new branches to the database, currently only fixed branches are inserted.
- We don’t have an option to add/update transactional details to the database and dynamic .

5. CONCLUSION AND FUTURE SCOPE

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5.1 CONCLUSION

Properly managing Electronics store can affect a business to major extent and having insight into your stock at any given time is critical to get successes in business. so, Electronics management system is a web-based application that allows to create, update and delete stock. It helps the user to maintain their inventory accurately. It is useful for users in checking their stock and allow them to contact to branches by providing stock details.

5.2 FUTURE SCOPE

The project has more potential to grow. Besides, we will include more widgets to the system. Like

- For mobile applications.
- We are also planning to enhance the interface so that it looks more attractive.
- User registrations.
- Admin functionality, so that admin can have full control over the application.

REFERENCES

REFERENCES

References for the project development has taken from the following websites.

1. https://www.w3schools.com/
2. https://getbootstrap.com/
3. https://codeforgeek.com/express-nodejs-tutorial/