

STORE MANAGEMENT SYSTEM

BY

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INDIVIDUAL DATABASE APPLICATION ASSESSMENT

EC5070 DATABASE SYSTEMS

SEMESTER 5

DEPARTMENT OF COMPUTER ENGINEERING

UNIVERSITY OF JAFFNA

Problem Statement for <JANAHITHA DB PROJECT>

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<09/09/2022>

HIGH LEVEL PROBLEM SUMMARY

<JANAHITHA enterprises is medium scale developed company that owns a name in the society but still runs on a local database and taking steps to change the systems into an online platform > < The primary success criteria is to implement an online web based database management system> <The main scope of this project is to give the company a database management system to keep and handle records effectively and update the system continuously on time for users to know the quantities of products on sale >

DETAILED PROBLEM STATEMENT

PART 1: FUNCTION

<Janahitha company is an Intermediate hardware distributing company which sells ironworks and all hardware related objects like Qt bars, cement , and pipes. They are mainly sold in large stocks to the customers who are owners of small scale hardware company. So the transactions happen so fast and in large scales. So the objects that were able to take an hour ago might not be available now. So the customers had to be sent off as they didn't have required amount of items. That is where the need of continuously updating and web based distributing database management system comes in. And as the company does considerable amount of money transactions being everything in a database management system is of utmost importance. company has one owner and 5 managing officers and around 10 employees. The company dals with lots of institutions and companies as in both buying side and selling side they have to work in collaborate with them. And managers have to work on the salaries of employees also. So The main purpose of this database management system is to provide the company a more reliable online database management system and web page with distributing data.

>

PART 2: TIME

<Upto today the company has a database on a local host and it is not updating daily. Using that we can only get the information about available items till the date it was updated. All the accounts are in written format. And my near goal is to have an online data management system for the Company and to build a view webpage for customers.

The long goal is to implement an online ordering system also .>

KEY STAKEHOLDERS

Sarath Rudrigo *Owner/Managing director*

Faiz rees *Manager*

Emplyeesof
company/
customers *Users*

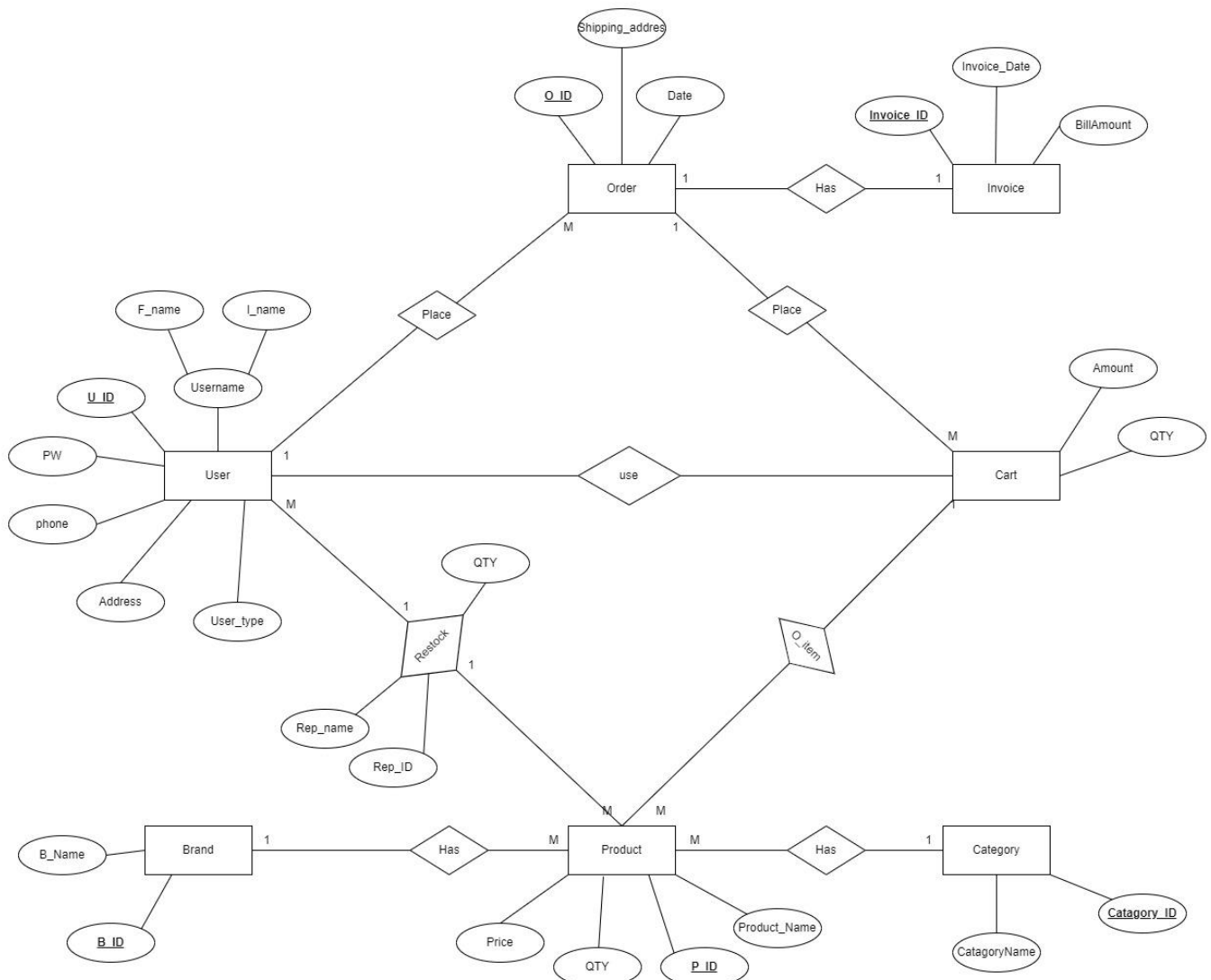
Problem Statement Guide 3 September, 2003

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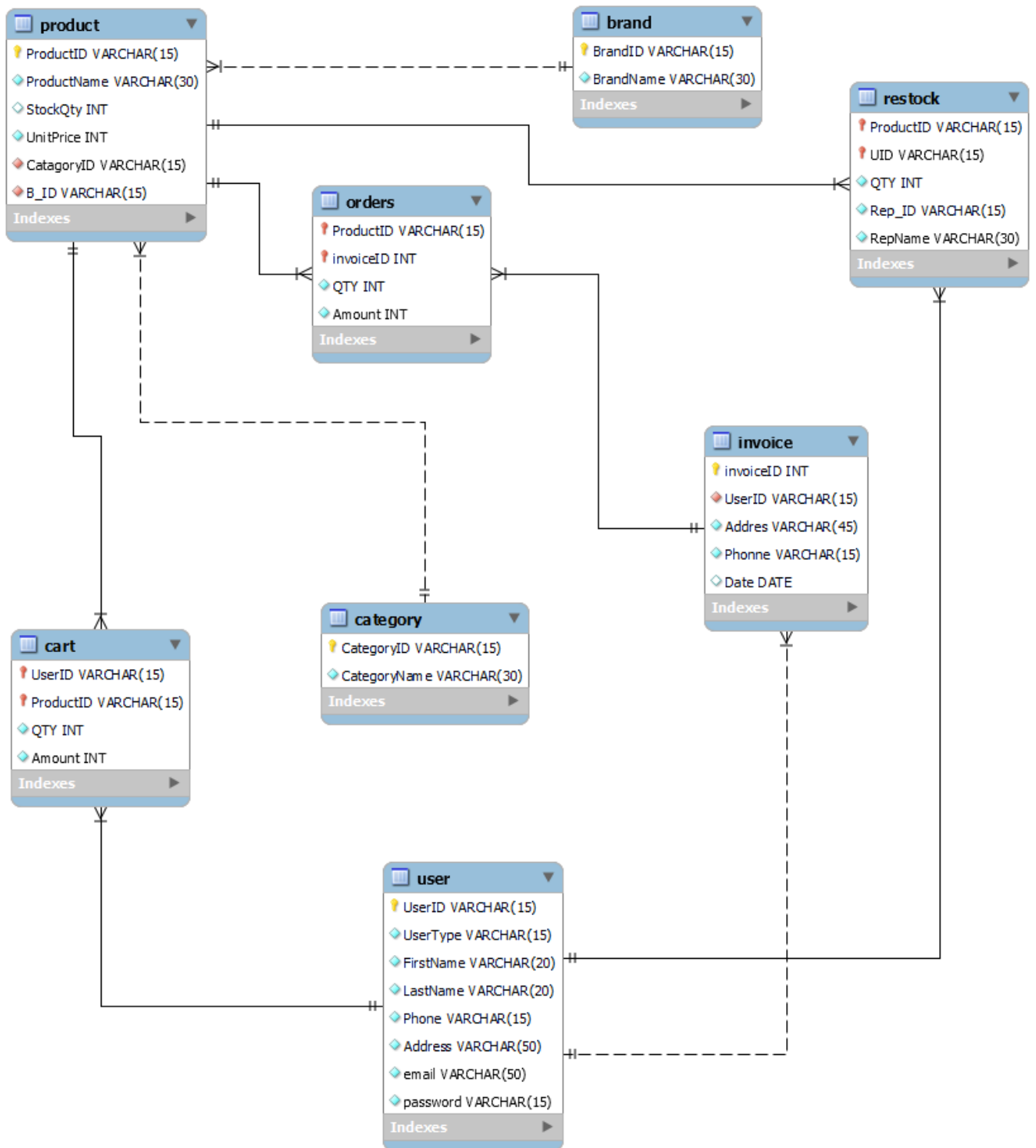
REVISION HISTORY

Date	Version	Reason for change	Author
10/11/2022	1.0	INITIAL RELEASE	WIJETHUNGA P.M.L.R

ER DIAGRAM

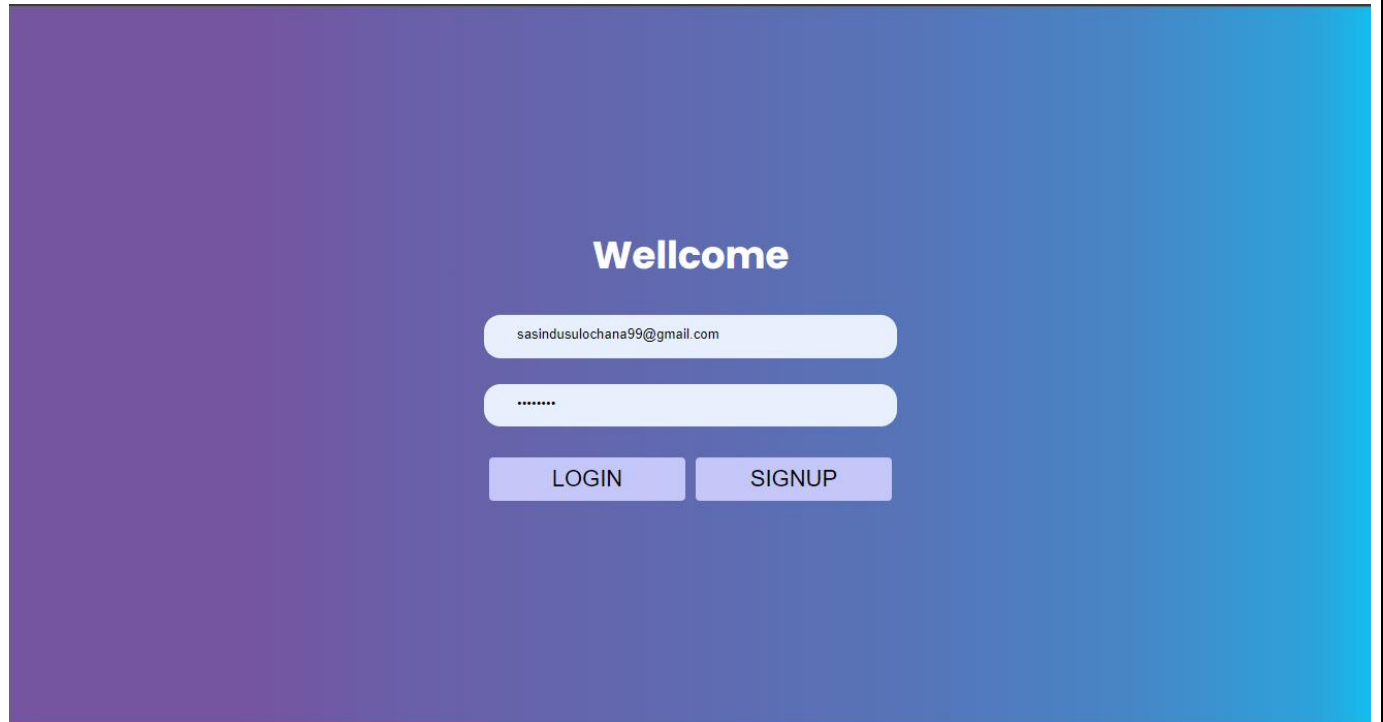


RELATION SCHEMA

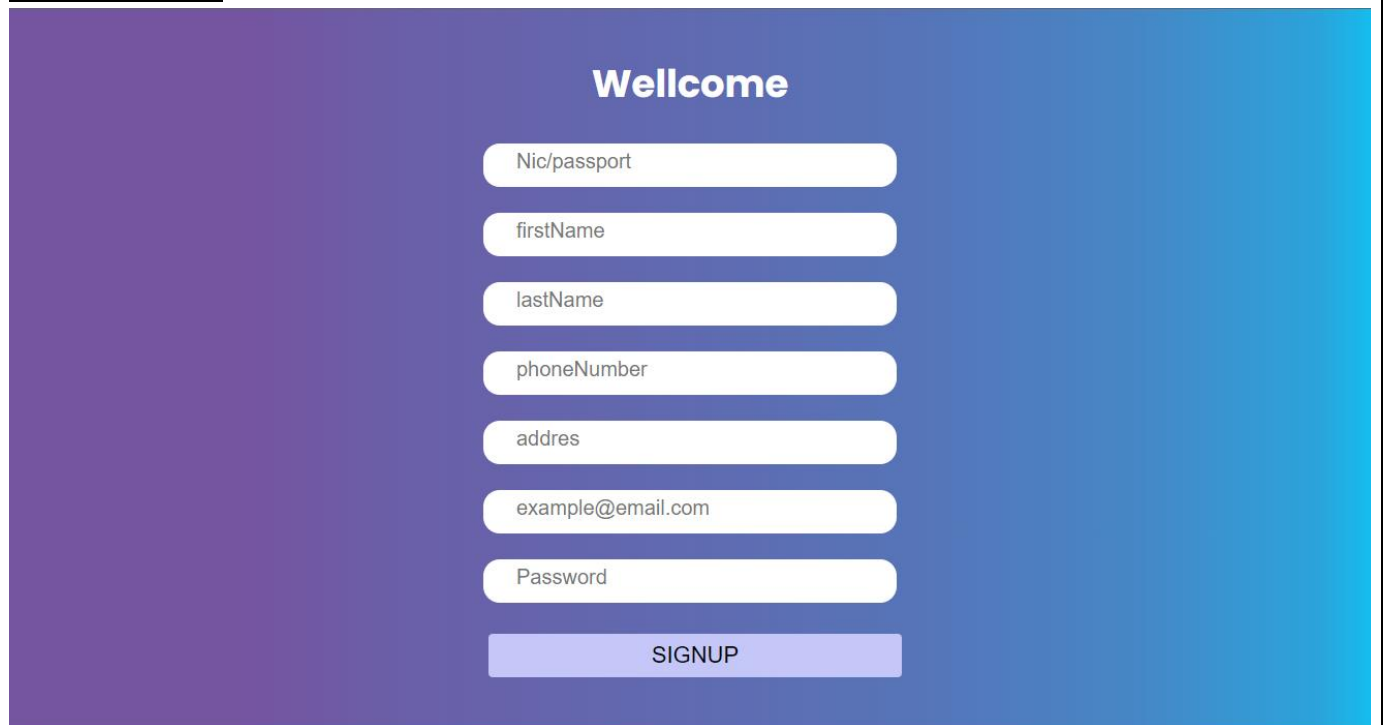


GITHUB REPO :

LOGIN PAGE

A login page with a blue-to-purple gradient background. It features a 'Wellcome' heading, an email input field with the placeholder 'sasindusulochana99@gmail.com', a password input field with masked characters '*****', and two buttons labeled 'LOGIN' and 'SIGNUP'.

SIGNUP PAGE

A signup page with a blue-to-purple gradient background. It features a 'Wellcome' heading and several input fields for registration details: 'Nic/passport', 'firstName', 'lastName', 'phoneNumber', 'addres', 'example@email.com', and 'Password'. A 'SIGNUP' button is positioned at the bottom of the form.

MAIN PAGE

+94 777444875

Lahirurandima789@gmail.com

Theme FAQ'SNeed HelpSri Lanka

sasindusulochana99@gmail.com

JANAHITHA

Search and hit enter....

All Category

4

Categories

HomeCartUser AccountTrack My OrderContact

	Product Name	Brand	Unit Price	Availlyble Qty	123....	ADD CART
QT Bar	QT bar 10mm	melwa	1550	1500	...QTY...	ADD CART
PVC Pipe	BOX Bar 1'	melwa	684	5561	...QTY...	ADD CART
Roofing	BOX Bar 1' 1/4	melwa	6846	84	...QTY...	ADD CART
Box Bar	BOX Bar 1' 1/2	melwa	684	684	...QTY...	ADD CART
GI Pipe	BOX Bar 2'	melwa	648	54	...QTY...	ADD CART
Plane Bar	QT bar 12mm	melwa	1950	1950	...QTY...	ADD CART
Flat Bar	Lanwa 3"	melwa	5450	3460	...QTY...	ADD CART
Shaft Bar						
Amano Sheet						
Cement						
Nail						

CART

+94 777444875

Lahirurandima789@gmail.com

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sasindusulochana99@gmail.com

JANAHITHA

Search and hit enter....

All Category

4

Categories

HomeCartUser AccountTrack My OrderContact


	Product Name	Brand	Quantity	123....	UPDATE	REMOVE
QT Bar	BOX Bar 1'	melwa	3453	...QTY...	UPDATE	REMOVE
PVC Pipe	BOX Bar 1' 1/4	melwa	150	...QTY...	UPDATE	REMOVE
Roofing	BOX Bar 2'	melwa	12	...QTY...	UPDATE	REMOVE
Box Bar	Lanwa 3"	melwa	45	...QTY...	UPDATE	REMOVE
GI Pipe						
Plane Bar						
Flat Bar						
Shaft Bar						
Amano Sheet						
Cement						
Nail						

Total :



PLACE ORDER

CLEAR CART

ORDER CONFIRM PAGE



All Category



Categories ▾

HomeCartUser AccountTrack My OrderContact

confirm the order

phoneNumber

Shipping addres

CONFIRM

USED QUARYES

```
/**
 * to login user already registered
 */
app.post("/login",(req,res)=>{
  const email = req.body.email;
  const password = req.body.password;
  connection.query("SELECT email, password FROM USER WHERE email = ? AND password = ?",[email,password] ,(err,result)=>{
    if(err){
      res.send({err:err});
    }
    if(result.length>0){
      console.log(result);
      res.send(result);
    }
    else{
      console.log("Wrong username/password combination");
      res.send({message:"Wrong username/password combination!"});
    }
  });
});
```

```

/**
 * to register new user and save it in database
 */

app.post("/signup/",(req,res)=>{
  const UserID = req.body.UserID;
  const UserType = req.body.UserType;
  const FirstName = req.body.FirstName;
  const LastName = req.body.LastName;
  const Phone = req.body.Phone;
  const Address = req.body.Address;
  const email = req.body.email;
  const password = req.body.password;
  connection.query("INSERT INTO USER
(UserID,UserType,FirstName,LastName,Phone,Address,email,password) VALUES
(?,?,?,?,?,?,?,?)",[UserID,UserType,FirstName,LastName,Phone,Address,email,password] ,(err,result)=>{
    if(err){
      res.send({err:err});
    }
    else{
      res.send(result);
    }
  });
});

app.get("/category", (req,res)=>{
  console.log("category");
  connection.query("SELECT CategoryName,CategoryID FROM category", (err,result)=>{
    if(err){
      res.send({err:err});
    }
    else{
      res.send(result);
    }
  });
});

/*To get all cart item that preticular user have
*/
app.post("/cart/show", (req,res) =>{
  const email = req.body.email;
  connection.query("SELECT Product.ProductID, Product.ProductName ,Brand.BrandName,
cart.QTY ,cart.Amount FROM cart JOIN Product ON cart.ProductID = product.ProductID JOIN
brand ON product.B_ID = Brand.BrandID join user on cart.UserID = user.UserID WHERE
user.email = ?",
[email], (err,result)=>{
    if(err){
      res.send({err:err});
    }
    else{
      res.send(result);
    }
  });
});
})

```



```

/**
 * To get all product that belong to a category
 */
app.get("/category1", (req, res) => {
  const CategoryName = req.body.CategoryName;
  console.log("arff")
  connection.query("SELECT Product.ProductName, Brand.BrandName FROM category join
product on category.CategoryID = product.CatagoryID join Brand on Brand.BrandID=
product.B_ID where CategoryName = ?",
  [CategoryName], (err, result) => {
    if (err) {
      res.send({ err: err });
    }
    else {
      res.send(result);
      console.log(result);
    }
  });
});

/**
 * to update the cart item when user add or remove item from cart
 */
app.post("/cart/update", (req, res) => {
  const email = req.body.email;
  const ProductID = req.body.ProductID;
  const QTY = req.body.updatedQty;
  console.log(email);
  console.log(ProductID);
  console.log(QTY);
  connection.query("UPDATE cart SET QTY = ?, Amount = (select product.UnitPrice from
product where product.ProductID=?) * ? WHERE UserID = (select user.UserID from user where
user.email=?) AND ProductID = ?",
  [QTY, ProductID, QTY, email, ProductID], (err, result) => {
    if (err) {
      res.send({ err: err });
    }
    else {
      res.send(result);
    }
  });
});
}
);

```

```

/**
 * to add new item to cart
 */
app.put("/addcart",(req,res)=>{
    const email = req.body.email;
    const ProductID = req.body.ProductID;
    console.log(email);
    console.log(ProductID);
    const QTY = req.body.QTY;
    console.log(QTY);

    connection.query("INSERT INTO cart (UserID,ProductID,QTY,Amount) VALUES ((SELECT
UserID FROM USER WHERE email = ?),?,?,(SELECT UnitPrice FROM Product WHERE ProductID =
?)*?)",
    [email,ProductID,QTY,ProductID,QTY],(err,result)=>{
        if(err){
            res.send({err:err});
        }
        else{
            res.send(result);
            console.log(result);
        }
    });
});

/**
 * to delete item from cart
 */
app.post("/cart/deleteone",(req,res)=>{
    const email = req.body.email;
    const ProductID = req.body.ProductID;
    console.log(email);
    console.log(ProductID);
    connection.query("DELETE FROM cart WHERE UserID = (SELECT UserID FROM USER WHERE email
= ?) AND ProductID = ?",
    [email,ProductID],(err,result)=>{
        if(err){
            res.send({err:err});
        }
        else{
            res.send(result);
            console.log(result);
        }
    });
});

```

```

/**
 * delete all item from cart when user checkout
 */
app.post("/cart/deleteall",(req,res)=>{
  const email = req.body.email;
  console.log(email);
  connection.query("DELETE FROM cart WHERE UserID = (SELECT UserID FROM USER WHERE email
= ?)",
  [email],(err,result)=>{
    if(err){
      res.send({err:err});
    }
    else{
      res.send(result);
      console.log(result);
    }
  });
});
/**
 * Number Of Item in cart
 */
app.post("/cart/items/",(req,res)=>{

  const email = req.body.email;
  connection.query("SELECT COUNT(*) as length FROM cart WHERE UserID = (SELECT
USER.UserID FROM USER WHERE email = ?)",
  [email],(err,result)=>{
    if(err){
      res.send({err:err});
    }
    else{
      res.send(result);
    }
  });
});

```

```

/**
 * To get all product item and there brand
 */
app.get("/product",(req,res)=>{
    connection.query("SELECT Product.ProductID, Product.ProductName,
Product.UnitPrice, Product.StockQty, Brand.BrandName  FROM product join Brand on
Brand.BrandID= product.B_ID",(err,result)=>{
        if(err){
            res.send({err:err});
        }
        else{
            res.send(result);
        }
    });
});

/**
 * add to invoice
 */
app.post("/order/invoice",(req,res)=>{
    const email = req.body.email;
    const Amount = req.body.total;
    const Address = req.body.Address;
    connection.query("INSERT INTO invoice (UserID,InvoiceDate,BilAmount,Address)
VALUES ((SELECT UserID FROM USER WHERE email = ?),?,?,?)",
[email,new Date(),Amount,Address],(err,result)=>{
        if(err){
            res.send({err:err});
        }
        else{
            res.send(result);
        }
    });
});
}
);

```

```

/**
 * get sum of all item amount in cart
 *
 */

app.post("/cart/total",(req,res)=>{
    const email = req.body.email;
    connection.query("SELECT SUM(Amount) as total FROM cart WHERE UserID = (SELECT
UserID FROM USER WHERE email = ?)",
    [email],(err,result)=>{
        if(err){
            res.send({err:err});
        }
        else{
            res.send(result);
        }
    });
});

app.post("/category/serchByCategory",(req,res)=>{
    /* const CategoryID = req.query.CategoryID;
    console.log(CategoryID) */
    const CategoryID = req.body.CategoryID;
    connection.query("SELECT Product.ProductID, Product.ProductName,
Product.UnitPrice, Product.StockQty, Brand.BrandName FROM product join Brand on
Brand.BrandID= product.B_ID WHERE product.CatagoryID= ?",
    [CategoryID],(err,result)=>{
        if(err){
            res.send({err:err});
        }
        else{
            res.send(result);
        }
    });
});

/* *
 * place order
 * add deta to invoice
 * getting details from cart and invoice table
 * then add data to order
 * then delete all item from cart
 * then update product stock
 * */
app.post("/order/placeorder",(req,res)=>{
    console.log("place order");
    const email = req.body.email;
    const Address = req.body.Address;
    const Phone = req.body.Phone;

```

```

    connection.query("INSERT INTO invoice (UserID,adres,phone) VALUES ((SELECT UserID
FROM USER WHERE email = ?),?,?)",
    [email,Address,Phone]);
    connection.query("SELECT *,invoiceID FROM cart join invoice WHERE
cart.UserID=invoice.(SELECT UserID FROM USER WHERE email = ?)",
    [email],(err,result)=>{
        if(err){
            res.send({err:err});
        }
        else{
            console.log(result);
            result.forEach(element => {
                connection.query("INSERT INTO orders (ProductID,invoiceID,QTY) VALUES
(?,?,?)",
                [element.ProductID,element.invoiceID,element.QTY]);
                connection.query("DELETE FROM cart WHERE UserID = (SELECT UserID FROM
USER WHERE email = ?)",
                [email]);
                connection.query("UPDATE product SET StockQty = StockQty - ? WHERE
ProductID = ?",
                [element.QTY,element.ProductID]);
            });
        }
    });
}
);

```