

EduBridge



A Project
Report On

Laptop-Shop-Management

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Introduction:-

Our project explains about the E-commerce Shopping, Website name **shoppyTech**. This project mainly explains the various actions related to online shopping. Like selecting product depends on brands, styles then add the favourites to wishlist for buying those products add them in cart select the product which you want to buy and remove the product which you don't want to buy, then buy the product it generates the Bill depends on customer details and product.

Our Project Include Modules:-

- Role Module
- UserRegistration Module
- Product Module
- CartItem Module
- WishList Module

Tools and Technologies Used

- Spring Boot - 2.0.4.RELEASE
- JDK - 1.8 or later
- Spring Framework - 5.0.8 RELEASE
- Hibernate - 5.2.17. Final
- Maven - 3.2+
- IDE - Eclipse or Spring Tool Suite (STS)
- Tomcat - 9.5+
- Thymeleaf - 3.0.9 RELEASE
- Bootstrap – 4, HTML5,CSS3
- MySQL - 8.0.23CE

Software Requirements:

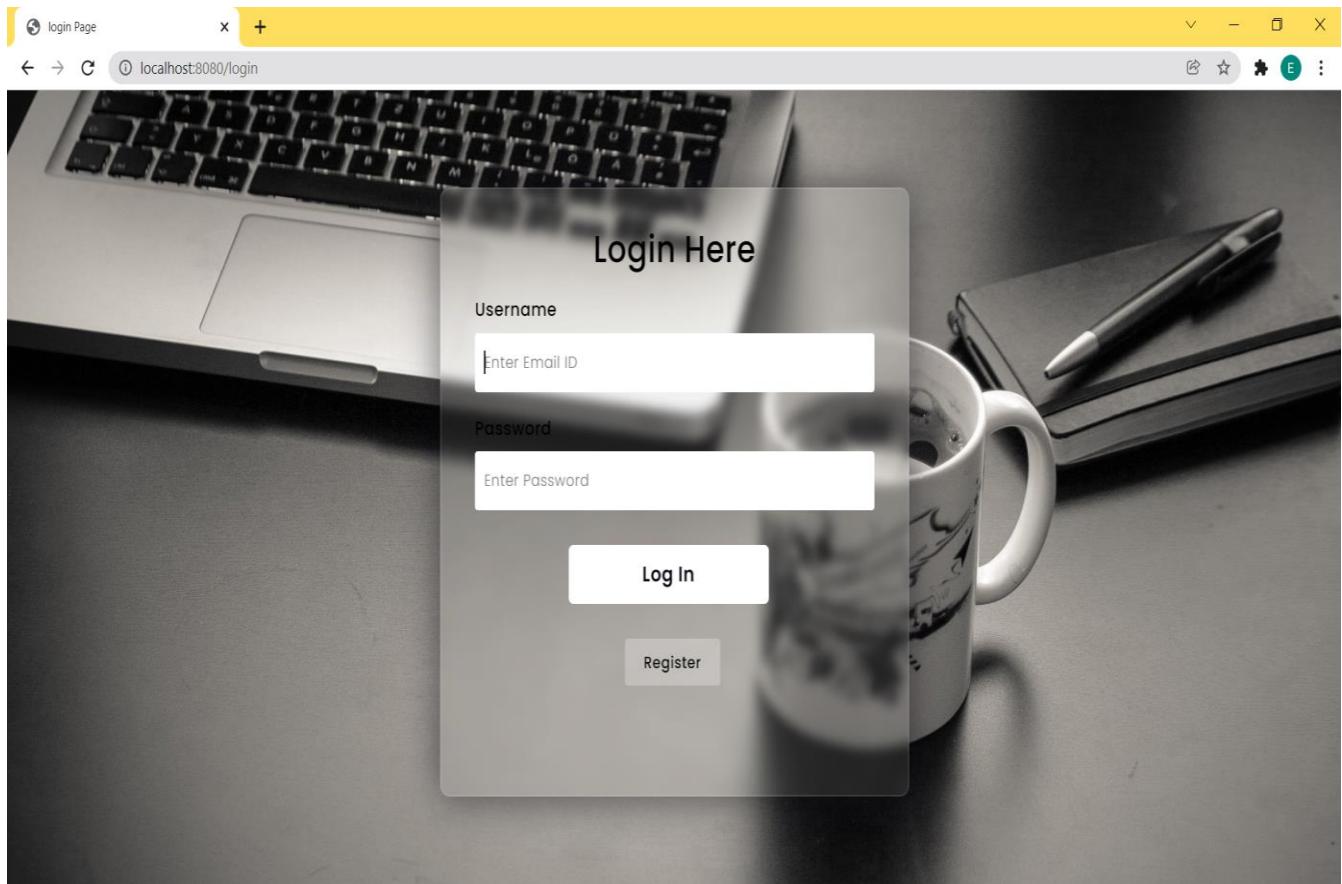
- **Front end:** Spring Suit Tool, SpringBoot REST-API technologies (Version 1.8), Thymeleaf, HTML5, css3, Bootstrap.
- **Back end:** MySQL workbench 8.0.23CE.
- **Middleware/Server:** Apache Tomcat v8.5. IDE: Eclipse IDE for Java EE Developers. Tomcat initialized with port(s): 8080 (http).
- **Browser:** Best result on Google Chrome
- **Operating System:** Window 11.

Dependencies:

- spring-boot-starter-security
- spring-boot-starter-thymeleaf
- spring-boot-starter-web
- spring-boot-devtools
- mysql-connector-java
- spring-boot-starter-data-jpa

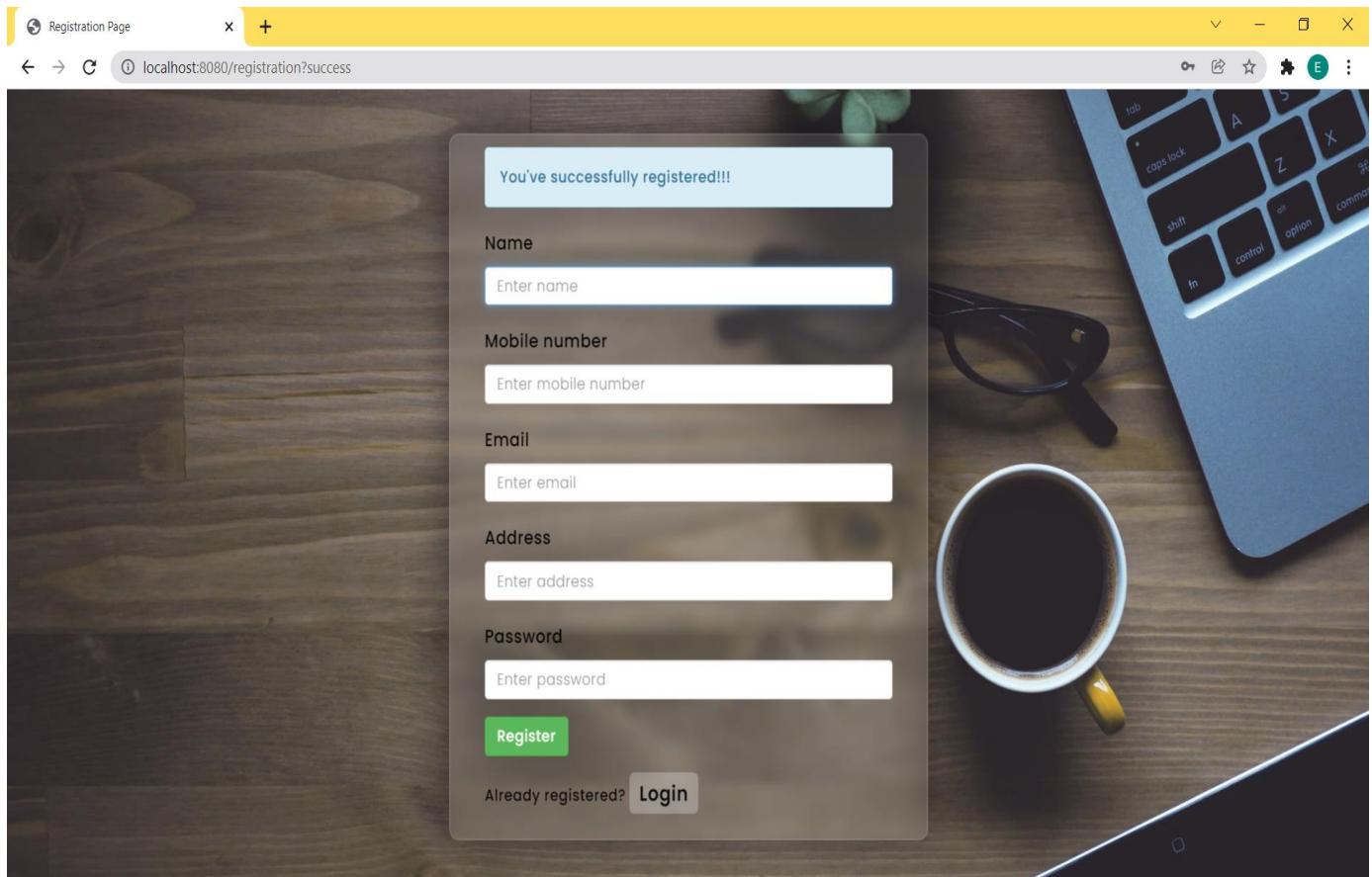
Login and Registration:

Login page:



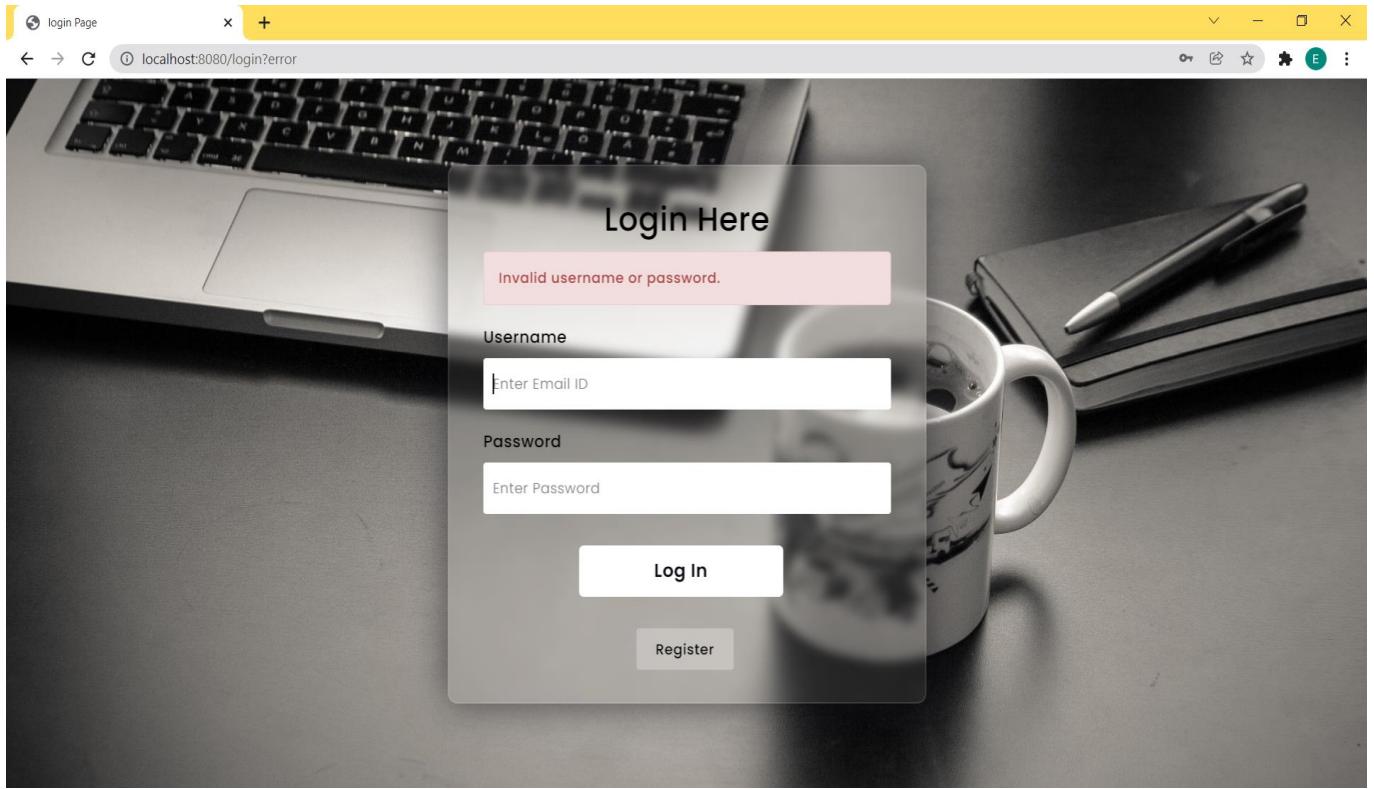
- we have login here by using email and password.
- If we are the new user, register first.

Registration Page:



- Here we have register with our Details
- This is the page where we give all details about ours which continue through this website.
- Fill the form and click register button.
- This Details Store in database.
- By using these details, we have to login.

Login with incorrect details:



- We have to register with correct details otherwise it shows error message.
- Because we store the details in database.
- Fill the details which you register with and click login button.
- It shows Home Page.

Database Details:

Role Table:

The screenshot shows the MySQL Workbench interface with the following details:

- File Bar:** File, Edit, View, Query, Database, Server, Tools, Scripting, Help.
- Navigator:** Schemas (sakila, spring_shoppingcartdb, sys, world) and a list of objects under 'laptop_shop_management'.
- SQL Editor:** Contains the following SQL script:

```
1 •  create database laptop_shop_management;
2
3 •  use laptop_shop_management;
4
5 •  select*from role;
6 •  select*from user;
7 •  select*from users_roles;
```
- Result Grid:** Shows the data for the 'role' table:

id	name
1	ROLE_USER
•	HULL
- Output Panel:** Displays the execution log:

#	Time	Action	Message	Duration / Fetch
1	17:13:14	create database laptop_shop_management	1 row(s) affected	0.000 sec
2	17:13:19	use laptop_shop_management	0 row(s) affected	0.000 sec

User Table:

The screenshot shows the MySQL Workbench interface with the following details:

- File Bar:** File, Edit, View, Query, Database, Server, Tools, Scripting, Help.
- Navigator:** Schemas (sakila, spring_shoppingcartdb, sys, world) and a list of objects under 'laptop_shop_management'.
- SQL Editor:** Contains the following SQL script:

```
1 •  create database laptop_shop_management;
2
3 •  use laptop_shop_management;
4
5 •  select*from role;
6 •  select*from user;
7 •  select*from users_roles;
```
- Result Grid:** Shows the data for the 'user' table:

id	address	email	name	number	password
1	Chennai	zainabai1997@gmail.com	zainab bai	1234567890	\$2a\$10\$gveEZDBPH4owHF82RE5FTO65n2qv...
•	HULL	HULL	HULL	HULL	HULL
- Output Panel:** Displays the execution log:

#	Time	Action	Message	Duration / Fetch
3	17:15:31	select*from role LIMIT 0, 50000	1 row(s) returned	0.016 sec / 0.000 sec
4	17:16:32	select*from user LIMIT 0, 50000	1 row(s) returned	0.000 sec / 0.000 sec

Role-User Table:

The screenshot shows the MySQL Workbench interface. In the top navigation bar, 'File', 'Edit', 'View', 'Query', 'Database', 'Server', 'Tools', 'Scripting', and 'Help' are visible. The 'Navigator' pane on the left lists 'SCHEMAS' with 'sakila', 'spring_shoppingcartdb2', 'sys', and 'world'. A central query editor window titled 'laptop-shop-management' contains the following SQL code:

```
1 • create database laptop_shop_management;
2
3 • use laptop_shop_management;
4
5 • select*from role;
6 • select*from user;
7 • select*from users_roles;
8
```

Below the code, a 'Result Grid' shows a single row of data:

user_id	role_id
1	1

The bottom pane, 'Output', displays the execution history:

#	Time	Action	Message	Duration / Fetch
1	17:13:14	create database laptop_shop_management	1 row(s) affected	0.000 sec
2	17:13:19	use laptop_shop_management	0 row(s) affected	0.000 sec
3	17:15:31	select*from role LIMIT 0, 50000	1 row(s) returned	0.016 sec / 0.000 sec
4	17:16:32	select*from user LIMIT 0, 50000	1 row(s) returned	0.000 sec / 0.000 sec
5	17:16:52	select*from users_roles LIMIT 0, 50000	1 row(s) returned	0.000 sec / 0.000 sec

- In role table we get user **name** and **id**.
- In User Table we get the user details like name, address, email, phone number, password.
- **The password is Encrypted by spring security.**
- By joining the role and user table by using many to many hibernate method create Role-User table by referencing the id of role and user table.

Home Page:

The screenshot shows a web browser window for the URL localhost:8080/homePage. The page has a blue header bar with the website name "shoppyTech.." and navigation links for HOME, ABOUT, CONTACT, CATEGORIES, CART, WISH, and LOGOUT. Below the header is a slogan: "Store. The best way to buy the products you love.". A large image of two laptops is displayed. To the left of the image, there is text: "Better digital experience with Presento" and "We are team of talented designers making services with Laptop.". A blue "Get Started" button is located below this text. The bottom of the screen shows a Windows taskbar with various pinned icons.

About page:

The screenshot shows a web browser window for the URL localhost:8080/aboutPage. The page has a blue header bar with the website name "shoppyTech.." and navigation links for HOME, ABOUT, CONTACT, CATEGORIES, CART, WISH, and LOGOUT. Below the header is a section titled "About Us". The text states: "Our Laptop Shop supplies the very best in contemporary Dublin laptops and Dublin laptop accessories. Our expert team of techies are also available for laptop repairs and laptop." Below this, another paragraph says: "We have Dublin laptops for the avid gamer, the college student, and even for the committed technophobe." A third paragraph states: "All our available laptops have been carefully curated by our technical team for their performance, speed and value for money." To the right of the text is a graphic featuring the letters "ABC" in red, blue, and green boxes, with the word "Integrity" written below it. Three circular icons are shown around the text: "AUDACITY" with a lightning bolt icon, "BIAS FOR ACTION" with a hand pointing up icon, and "CUSTOMER FIRST" with a hand holding a key icon. The bottom of the screen shows a Windows taskbar with various pinned icons.

Contact Page:

The screenshot shows a contact form on a website. The form fields include 'Your name' (text input), 'Your email' (text input), 'Subject' (text input), and 'Your message' (text area). Below the form is a 'Send' button. To the right, there is contact information: a location pin icon followed by 'Bangalore, India.', a phone icon followed by '+91 9876543211', a fax icon followed by '04232 9876543', and an envelope icon followed by 'contactus@lapcraft.com'. The website header 'shoppyTech..' is visible, along with navigation links for HOME, ABOUT, CONTACT, CATEGORIES, CART, WISH, and LOGOUT.

On clicking send Button:

The screenshot shows a success message: 'Your query has been received successfully!!!' in green text. Below it, a smaller note says 'Our team will come back to you within a matter of hours to help you'. At the bottom of the screen, the Windows taskbar is visible with various pinned icons and system status indicators like battery level and network connection.

Product:

Product Database

Create a Table product in database and insert a product.

```
create TABLE product (
    id varchar(20) PRIMARY KEY NOT NULL,
    imglink varchar(255) NOT NULL,
    name varchar(100) NOT NULL,
    descp varchar(255) NOT NULL,
    price double NOT NULL,
    style varchar(100) Not null,
    brand varchar(100) Not null
) ;
```

```
insert into product (id,name,imglink,descp,price,style,brand) values("g1","HP
Victus 16-e0076AX",
"https://vsbytes.com/wp-content/uploads/2021/07/16-e0076AX.webp",
"Ryzen 5 5600H 8GB DDR4 3200MHz RAM 512GB SSD 16.1-inches FHD,
60Hz",66990.00,"gaming","HP");
```

```
insert into product (id,name,imglink,descp,price,style,brand) values("g2","Acer
Nitro AN515-44",
"https://vsbytes.com/wp-content/uploads/2021/07/AN515-44.webp","Ryzen 5
4600H
16GB DDR4 512GB SSD 15.6-inches FHD, 60Hz GTX
1650",79999.99,"gaming","ACER");
```

```
insert into product (id,name,imglink,descp,price,style,brand)
values("g6","ASUS TUF Gaming A15",
"https://vsbytes.com/wp-content/uploads/2021/07/ASUS-TUF-Gaming-A15-
2021-15.6-inch-39.62-cms-FHD-144Hz-AMD-Ryzen-7-4800H.webp",
"AMD Ryzen 7 4800H 8GB DIMM DDR4 512GB SSD 15.6-inches FHD
144Hz",74990.00,"gaming","ASUS");
```

```
insert into product (id,name,imglink,descp,price,style,brand)
values("g3","Lenovo IdeaPad Gaming 3",
"https://vsbytes.com/wp-content/uploads/2020/10/Lenovo-IdeaPad-Gaming-3-
```

AMD-Ryzen-5-4600H-15.6-39.62cms-Full-HD-IPS-120Hz-Gaming-Laptop.webp",
"Ryzen 5 4600H 8GB DDR4 512GB SSD 15.6-inches FHD with 120Hz
1650",63100.00,"gaming","LENOVO");

insert into product (id,name,imglink,descp,price,style,brand)
values("acer1","Acer Nitro AN515-56",
"https://vsbytes.com/wp-content/uploads/2021/06/AN515-56.webp",
"11th Gen i7 11370H 8GB DDR4 1TB SSD 15.6-inch FHD,144Hz GTX
1650",86999.99,"gaming","ACER");

insert into product (id,name,imglink,descp,price,style,brand) values("g4","HP
Pavilion Gaming 15-dk1148TX",
"https://vsbytes.com/wp-content/uploads/2021/07/15-dk1148TX.webp",
"Core i5 8GB DDR4 2933MHz 512GB SSD 15.6-inch FHD, 144Hz GTX
1650",72100.00,"gaming","HP");

insert into product (id,name,imglink,descp,price,style,brand) values("a1","Acer
Aspire 7",
"https://static-
ecapac.acer.com/media/catalog/product/cache/3406b1b44daa08472620e74815b
d5d93/a/s/aspire-7-1_2_2.jpg","10th Generation i5-10300H processor 8 GB of
DDR4 512 GB SSD FHD",54990.00,"newlaptop","ACER");

insert into product (id,name,imglink,descp,price,style,brand) values("a2","Acer
Predator Helios Gaming",
"https://static-
ecapac.acer.com/media/catalog/product/cache/3406b1b44daa08472620e74815b
d5d93/u/n/untitled-2_4_3.jpg","11th Genertion Intel i9-11900 processor 16 GB
of DDR4 1 TB SSD",139999.00,"gaming","ACER");

insert into product (id,name,imglink,descp,price,style,brand) values("a3","Acer
Aspire 3",
"https://static-
ecapac.acer.com/media/catalog/product/cache/3406b1b44daa08472620e74815b
d5d93/a/s/aspire-3-a315-58-fp-primary_image_3.png","11th Generation Intel
Core i5-1135G7 8GB DDR4 128GB SSD 1 TB
HDD",58999.00,"slim","ACER");

```
insert into product (id,name,imglink,descp,price,style,brand) values("a4","Acer Extensa Laptop Intel Pentium Quad Core",
"https://static-
ecapac.acer.com/media/catalog/product/cache/3406b1b44daa08472620e74815b
d5d93/a/c/acer-extensa-15-ex215-21-21g-31-wp-win10-01_1_1.jpg","Intel®
Pentium® Silver N5030 processor 256 GB PCIe NVMe SSD 8
GB",28999.00,"working","ACER");
```

```
insert into product (id,name,imglink,descp,price,style,brand) values("a5","Acer Aspire Vero",
"https://static-
ecapac.acer.com/media/catalog/product/cache/3406b1b44daa08472620e74815b
d5d93/v/e/vero2.jpg","Windows 11 Home 64-bit Core i5-1155G7 Processor
12GB 512GB SSD ",57999.00,"slim","ACER");
```

```
insert into product (id,name,imglink,descp,price,style,brand)
values("l1","IdeaPad Slim 3i (15, Intel)",
"https://www.lenovo.com/medias/lenovo-laptop-ideapad-3-15-intel-
hero.png?context=bWFzdGVyfHJvb3R8MzAzNDQ1fGltYWdlL3BuZ3xoNjY
vaDY2LzEwNzU3MjQxNTAzNzc0LnBuZ3xjMzU3NWY4OGEyYjYzYTEw
OGFIYzhiNWJhODEwYzA1MTlkNDYxODI3ZGQzM2IzYTRhYmY4M2Yz
Y2NjYjhOGJj","
4 GB Soldered DDR4 2666MHz + 4 GB SO-DIMM DDR4
2666MHz",39190.00,"slim","LENOVO");
```

```
insert into product (id,name,imglink,descp,price,style,brand)
values("ASUS1","ASUS Zenbook Pro Duo UX581",
"https://dlcdnwebimags.asus.com/gain/101212fc-bf0a-4af3-836f-
ba3e296ced65/w185/fwebp","Windows 10 9th Gen Intel i9 32 GB memory 1
TB PCIe SSD storage",125000.00,"slim","ASUS");
```

```
insert into product (id,name,imglink,descp,price,style,brand)
values("ASUS2","ASUS Core i9",
"https://rukminim1.flixcart.com/image/832/832/kcauaa80/computer/h/w/c/asus-
na-gaming-laptop-original-imaftgegjf4cqbmq.jpeg?q=70","32 GB/1 TB
SSD/Windows 10 Home/6 GB Graphics/NVIDIA GeForce RTX
2060",269990.00,"newlaptop","ASUS");
```

```
insert into product (id,name,imglink,descp,price,style,brand)
```

```
values("ASUS3","ASUS Vivobook Flip 14",
"https://m.media-amazon.com/images/I/71C-YpFn0zS._AC_UY327_FMwebp_QL65_.jpg","Intel Core i3-10110U 10th Gen,
14 FHD Touch, Laptop 8GB/256GB SSD",46990.00,"newlaptop","ASUS");
```

```
insert into product (id,name,imglink,descp,price,style,brand)
values("ASUS4","ASUS Vivobook K15 OLED",
"https://m.media-
amazon.com/images/I/81US4GKwGCL._AC_UY327_QL65_.jpg","Intel Core
i3-1115G4 11th Gen, Thin and Light Laptop 8GB/512GB
SSD",49009.00,"working","ASUS");
```

```
insert into product (id,name,imglink,descp,price,style,brand)
values("ASUS5","ASUS TUF Dash F15",
"https://m.media-
amazon.com/images/I/81mLxU0CcAL._AC_UY327_QL65_.jpg"," FHD
144Hz, Intel Core i5-11300H 11th Gen, RTX 3050 4GB
Graphics",67990.00,"working","ASUS");
```

```
insert into product(id,name,imglink,descp,price,style,brand) values("h1","HP
ENVY x360 Convert 13-bd0515TU",
"https://in-
media.apjonlinecdn.com/catalog/product/cache/b3b166914d87ce343d4dc5ec51
17b502/c/0/c07613945.png",
"Intel® Core™ i7 processor 512 GB PCIe® NVMe™ TLC
SSD",104999.00,"working","HP");
```

```
insert into product(id,name,imglink,descp,price,style,brand) values("h2","HP
Pavilion x360 Convertible 14-dy1013TU",
"https://in-
media.apjonlinecdn.com/catalog/product/cache/b3b166914d87ce343d4dc5ec51
17b502/2/1/21c1_pavilion_slinky_14_ffplus_naturalsilver_fpr_win10_coreset_t
ent_2_5.png",
"11th Generation 512 GB M.2 SSD 14 Intel Iris Xe
Graphics",88999.00,"slim","HP");
```

```
insert into product(id,name,imglink,descp,price,style,brand) values("h3","HP
Pavilion Aero Laptop 13-be0208AU",
```

"https://in-media.apjonlinecdn.com/catalog/product/cache/b3b166914d87ce343d4dc5ec5117b502/2/1/21c1_pavilion_zurg_13_palerosegold_nt_nonodd_fpr_upccam_free_dos_coreset_frontleft_3.png",
"AMD Ryzen™ 7 processor Windows 11 1 TB HDD M.2 SSD
13.3",86999.00,"Working","HP");

insert into product(id,name,imglink,descp,price,style,brand) values("h4","HP Chromebook x360 AMD 3015CE",
"https://m.media-amazon.com/images/I/81hoonPUdxL.AC_UY327_FMwebp_QL65_.jpg",
" AMD 3015CE-4GB SDRAM/64GB eMMC Storage 14-inch
Touchscreen",30990.00,"slim","HP");

insert into product(id,name,imglink,descp,price,style,brand) values("h5","HP Victus 16 E Series",
"https://i.gadgets360cdn.com/products/large/HP-Victus-DB-897x800-1627278526.jpg?downsize=*:180",
"Windows 10 laptop with a 16.10 8GB of RAM.",59990.00,"working","HP");

insert into product(id,name,imglink,descp,price,style,brand) values("h6","HP Spectre x360 Convertible 13-aw2003TU",
"https://in-media.apjonlinecdn.com/catalog/product/cache/b3b166914d87ce343d4dc5ec5117b502/c/0/c06472419_7.png",
"11th Gen Intel® Core™ i5 processor Windows 10 512 GB SSD
13.3",99999.00,"working","HP");

insert into product (id,name,imglink,descp,price,style,brand)
values("l2","ThinkBook 14 Gen 2 (Intel)",
"https://www.lenovo.com/mediias/ThinkBook-14-Gen-2-Intel-hero.png?context=bWFzdGVyfHJvb3R8NjYwMDh8aW1hZ2UvcG5nfGg2NC9oZjYvMTMwMzMMyMzY0NjM2NDYucG5nfDdlZWU5OGJIYzllYWI0OTM

2NDcyMjMwYzA4ZmY3OWRjZDFkNTI4NjgxNWJhOGRmNmZlYTE3OW
UzODhmOWQyZjM ","8 GB Soldered DDR4
3200MHz",82990.00,"working","LENOVO");

insert into product (id,name,imglink,descp,price,style,brand)
values("l3","Thinkpad E14 11th Gen (Intel)",
"https://www.lenovo.com/medias/Thinkpad-E14-Gen-2-Intel-subseries-
hero.png?context=bWFzdGVyfHJvb3R8NjIwOTZ8aW1hZ2UvcG5nfGhmOC9
oZjEvMTI5OTUxNzcwODcwMDYucG5nfGMwN2NhNDE4N2U1NDU2ZjBj
MDhmN2FmNGUwNDUxNmVINGNhMmIxNDMxNjhhNWEwMTM5ZmRm
ZDNlY2M4NDM0MGE","4 GB SO-DIMM DDR4
3200MHz",48990.00,"working","LENOVO");

insert into product (id,name,imglink,descp,price,style,brand)
values("l4","Lenovo V15 (AMD)",
"https://www.lenovo.com/medias/ww-lenovo-laptop-v15-amd-
hero.png?context=bWFzdGVyfHJvb3R8NDM4OTQyfGltYWdlL3BuZ3xoZT
YvaDg2LzEwNzc4MDE1NzYwNDE0LnBuZ3xjZDdhZjRjMjAzMjgwMDVIY
2I4NjM0YWZlM2UzNGM1MWM4NTAwMzg0YzA1MTFhNDQwMWMzYz
diMzQ5ZWYwYmFi","4 GB Soldered + 4 GB SO-DIMM
,42990.00,"newlaptop","LENOVO");

insert into product (id,name,imglink,descp,price,style,brand) values("l6","Flex
5i (14,Intel)",
"https://www.lenovo.com/medias/Flex5-subseries-hero-
1.png?context=bWFzdGVyfHJvb3R8OTEyODV8aW1hZ2UvcG5nfGg3NC9o
NzUvMTE2MTM3NzAyNTIzMtgucG5nfDFhYmFhY2U1N2M3YmFkOTE3
Yjk3MTY0OGRhYmIxYmI1ZTcwZDY5MjMyODQ3MWY4NmI3MTdiYTE
5NzVINThlYjk","16 GB Soldered DDR4
3200MHz",64800.00,"newlaptop","LENOVO");

insert into product (id,name,imglink,descp,price,style,brand) values("l5","Yoga
7 Gen 6 (14, AMD)",
"https://www.lenovo.com/medias/Yoga-7-Gen-6-14-AMD-SS-
Hero.png?context=bWFzdGVyfHJvb3R8NjM5NjV8aW1hZ2UvcG5nfGhjMi9o
NDgvMTM0NDI3MzUxNzc3NTgucG5nfGNmZTcxNjE5ZTA3ZjkyYjliZmFl
OTBkYjlkMWY5MGMzODRIYzBhMmM4N2ZjY2I3ZjFlZDQwNzRlZDYxO
GExZmE","16 GB Soldered LPDDR4x
4266MHz",94490.00,"newlaptop","LENOVO");

Product Table:

The screenshot shows the MySQL Workbench interface with the following details:

- Schemas:** The current schema is `laptop_shop_management`.
- Table Definition:**

```

10 • create TABLE product (
11     id varchar(20) PRIMARY KEY NOT NULL,
12     imglink varchar(255) NOT NULL,
13     name varchar(100) NOT NULL,
14     descpr varchar(255) NOT NULL,
15     price double NOT NULL,
16     style varchar(100) Not null,
17     brand varchar(100) Not null
18 );
19 • select * from product;
    
```
- Result Grid:** Shows the data inserted into the `product` table. The data includes various laptop models like Acer Aspire, Acer Nitro, ASUS Zenbook, and more, with details such as brand, description, image link, name, price, style, and ID.
- Action Output:** Displays the log of SQL insert statements executed at 17:31:17, showing 5 rows affected for each statement.

- We insert a product in database

Categories page image:

The screenshot shows a web application with the following interface elements:

- Header:** Categories, localhost:8080/categoriesPage, shoppyTech.., HOME, ABOUT, CONTACT, CATEGORIES, CART, WISH, LOGOUT.
- Section Headers:** Categories, HP Laptops, Acer Laptops, Asus Laptops, Lenovo Laptops.
- Product Cards:**
 - HP Laptops:** INSTOCK! ★★★★☆, GO NOW, New laptop image.
 - Acer Laptops:** INSTOCK! ★★★★☆, GO NOW, Thin laptop image.
 - Asus Laptops:** INSTOCK! ★★★★☆, GO NOW, Gaming laptop image.
 - Lenovo Laptops:** INSTOCK! ★★★★☆, GO NOW, Working laptop image.
- Bottom Navigation:** Home, Search, Cart, Wish, Logout.

HP Laptop:

The screenshot shows a list of six HP laptop models on the shoppyTech website:

- HP Victus 16-e0076AX** (GAMING)
Ryzen 5 5600H 8GB DDR4 3200MHz RAM 512GB SSD 16.1-inches FHD, 60Hz
Price: ₹ 69990.0 - 34 reviews
- HP Pavilion Gaming 15-dk1148TX** (GAMING)
Core i5 8GB DDR4 2933MHz 512GB SSD 15.6-inch FHD, 144Hz GTX 1650
Price: ₹ 92100.0 - 34 reviews
- HP ENVY x360 Convert 13-bd0515TU** (WORKING)
Intel® Core™ i7 processor 512 GB PCIe® NVMe™ TLC SSD
Price: ₹ 104990.0 - 34 reviews
- HP Pavilion x360 Convertible 14-dy1013TU** (SLIM)
11th Generation i5 112 GB M.2 SSD 14 Intel Iris Xe Graphics
Price: ₹ 89990.0 - 34 reviews
- HP Pavilion Aero Laptop 13-be0208AU** (WORKING)
AMD Ryzen™ 7 processor Windows 11 1 TB HDD M.2 SSD 13.3
Price: ₹ 89999.0 - 34 reviews
- HP Chromebook x360 AMD 3015CE** (SLIM)

The interface includes a top navigation bar with links for HOME, ABOUT, CONTACT, CATEGORIES, CART, WISH LIST, and LOGOUT. A search bar and a "Wish list" button are also present.

Acer laptop:

The screenshot shows a list of seven Acer laptop models on the shoppyTech website:

- Acer Aspire 7** (NEWLAPTOP)
10th Generation i5-10300H processor 8 GB of DDR4 512 GB SSD FHD
Price: ₹ 54990.0 - 34 reviews
- Acer Predator Helios Gaming** (GAMING)
11th Generation Intel® i9-11900 processor 16 GB of DDR4 1 TB SSD
Price: ₹ 139999.0 - 34 reviews
- Acer Aspire 3** (SLIM)
11th Generation Intel Core i5-1135G7 8GB DDR4 120GB SSD 1TB HDD
Price: ₹ 59990.0 - 34 reviews
- Acer Extensa Laptop Intel Pentium Quad Core** (WORKING)
Intel® Pentium® Silver N5030 processor 256 GB PCIe NVMe SSD 8 GB
Price: ₹ 28999.0 - 34 reviews
- Acer Aspire Vero** (SLIM)
Windows 11 Home 64-bit Core i5-1155G7 Processor 12GB 512GB SSD
Price: ₹ 57999.0 - 34 reviews
- Acer Nitro AN515-56** (GAMING)

The interface includes a top navigation bar with links for HOME, ABOUT, CONTACT, CATEGORIES, CART, WISH LIST, and LOGOUT. A search bar and a "Wish list" button are also present.

ASUS laptop:

The screenshot shows a web browser displaying a list of ASUS laptops on a shopping website. The page has a blue header with the text "shoppyTech..". Below the header, there's a navigation bar with links for "HOME", "ABOUT", "CONTACT", "CATEGORIES", "CART", "WISH LIST", and "LOGOUT". The main content area is titled "Laptops". It lists six different ASUS laptop models, each with a thumbnail image, the model name, a brief description, price, and two buttons: "Add to cart" and "Wish list".

- ASUS Zenbook Pro Duo UX581**
Windows 10 9th Gen Intel i9 32 GB memory 1 TB PCIe SSD storage
Price: ₹ 125000.0 34 reviews
- ASUS Core i9**
NEW LAPTOP
32 GB/1 TB SSD/Windows 10 Home/5 GB Graphics/NVIDIA GeForce RTX 2060
Price: ₹ 250000.0 34 reviews
- ASUS Vivobook Flip 14**
NEW LAPTOP
Intel Core i3-10110U 10th Gen, 14 FHD Touch, Laptop 8GB/512GB SSD
Price: ₹ 45000.0 34 reviews
- ASUS Vivobook K15 OLED**
WORKING
Intel Core i5-1135G7 11th Gen, Thin and Light Laptop 8GB/512GB SSD
Price: ₹ 49000.0 34 reviews
- ASUS TUF Dash F15**
WORKING
FHD 144Hz, Intel Core i5-11300H 11th Gen, RTX 3050 4GB Graphics
Price: ₹ 75000.0 34 reviews
- ASUS TUF Gaming A15**
GAMING

The browser interface includes a top bar with tabs, a search bar, and a status bar at the bottom showing "6:11 PM 30-Jan-22".

Lenovo laptop:

The screenshot shows a web browser displaying a list of Lenovo laptops on a shopping website. The layout is similar to the ASUS page, with a blue header "shoppyTech..", a navigation bar, and a "Laptops" section. It lists five Lenovo laptop models, each with a thumbnail, model name, description, price, and "Add to cart" and "Wish list" buttons.

- Lenovo IdeaPad Gaming 3**
GAMING
Ryzen 5 4600H 8GB DDR4 512GB SSD 15.6-inches FHD with 120Hz 165Hz
Price: ₹ 63100.0 34 reviews
- IdeaPad Slim 3i (15, Intel)**
SLIM
4 GB Soldered DDR4 2800MHz + 4 GB SO-DIMM DDR4 2800MHz
Price: ₹ 39100.0 34 reviews
- ThinkBook 14 Gen 2 (Intel)**
WORKING
8 GB Soldered DDR4 3200MHz
Price: ₹ 52990.0 34 reviews
- Thinkpad E14 11th Gen (Intel)**
WORKING
4 GB SO-DIMM DDR4 3200MHz
Price: ₹ 45990.0 34 reviews
- Lenovo V15 (AMD)**
NEW LAPTOP
4 GB Soldered + 4 GB SO-DIMM
Price: ₹ 42990.0 34 reviews
- Yoga 7 Gen 6 (14, AMD)**
NEW LAPTOP

The browser interface includes a top bar with tabs, a search bar, and a status bar at the bottom showing "6:11 PM 30-Jan-22".

New Laptop:

The screenshot shows a list of six new laptops:

- Acer Aspire 7 (NEWLAPTOP)
10th Generation i5-10300H processor 8 GB of DDR4 512 GB SSD FHD
Price: ₹ 54990.0 34 reviews
- ASUS Core i9 (NEWLAPTOP)
32 GB/1 TB SSD/Windows 10 Home/8 GB Graphics/NVIDIA GeForce RTX 2000
Price: ₹ 209990.0 34 reviews
- ASUS Vivobook Flip 14 (NEWLAPTOP)
Intel Core i3-10110U 10th Gen. 14 FHD Touch. Laptop 8GB/256GB SSD
Price: ₹ 45990.0 34 reviews
- Lenovo V15 (AMD) (NEWLAPTOP)
4 GB Soldered + 4 GB SO-DIMM
Price: ₹ 42990.0 34 reviews
- Yoga 7 Gen 6 (14, AMD) (NEWLAPTOP)
16 GB Soldered LPDDR4x 4266MHz
Price: ₹ 14490.0 34 reviews
- Flex 5i (14, Intel) (NEWLAPTOP)

The browser interface includes a yellow header bar, a blue navigation bar with links like HOME, ABOUT, CONTACT, CATEGORIES, CART, WISH, and LOGOUT, and a taskbar at the bottom.

Thin Laptop:

The screenshot shows a list of six thin laptops:

- Acer Aspire 3 (SLIM)
11th Generation Intel Core i5-1135G7 8GB DDR4 128GB SSD 1TB HDD
Price: ₹ 55990.0 34 reviews
- Acer Aspire Vero (SLIM)
Windows 11 Home 64-bit Core i5-11550T Processor 12GB 512GB SSD
Price: ₹ 57990.0 34 reviews
- ASUS Zenbook Pro Duo UX581 (SLIM)
Windows 10 9th Gen Intel® 8 32 GB memory 1 TB PCIe SSD storage
Price: ₹ 125000.0 34 reviews
- HP Pavilion x360 Convertible 14-dy1013TU (SLIM)
11th Generation 512 GB M.2 SSD 14 Intel Iris X Graphics
Price: ₹ 38990.0 34 reviews
- HP Chromebook x360 AMD 3015CE (SLIM)
AMD 3015CE-4GB SDRAM/84GB eMMC Storage 14-inch Touchscreen
Price: ₹ 30990.0 34 reviews
- IdeaPad Slim 3i (15, Intel) (SLIM)

The browser interface includes a yellow header bar, a blue navigation bar with links like HOME, ABOUT, CONTACT, CATEGORIES, CART, WISH, and LOGOUT, and a taskbar at the bottom.

Gaming Laptop:

Displaying laptops

localhost:8080/categories/gaming

shoppyTech..

Laptops



Acer Predator Helios Gaming
GAMING

11th Generation Intel i9-11900 processor | 16 GB of DDR4 | 1TB SSD
Price: ₹ 130000.00 | 34 reviews

Add to cart  Wish list 



Acer Nitro AN515-56
GAMING

11th Gen i7 | 11270H | 8GB DDR4 | 1TB SSD | 15.6-inch FHD | 144Hz | GTX 1650
Price: ₹ 85000.00 | 34 reviews

Add to cart  Wish list 



HP Victus 16-e0076AX
GAMING

Ryzen 5 5600H | 8GB DDR4 | 3200MHz RAM | 512GB SSD | 16.1-inches FHD | 60Hz
Price: ₹ 60000.00 | 34 reviews

Add to cart  Wish list 



Acer Nitro AN515-44
GAMING

Ryzen 5 4600H | 16GB DDR4 | 512GB SSD | 15.6-inches FHD | 60Hz | GTX 1650
Price: ₹ 70000.00 | 34 reviews

Add to cart  Wish list 



Lenovo IdeaPad Gaming 3
GAMING

Ryzen 5 4500H | 8GB DDR4 | 512GB SSD | 15.6-inches FHD with 120Hz | 1650
Price: ₹ 63100.00 | 34 reviews

Add to cart  Wish list 



HP Pavilion Gaming 15-dk1148TX
GAMING

ENG IN 6:12 PM 30-Jan-22

Working Laptop:

Displaying laptops

localhost:8080/categories/working

shoppyTech..

HOME ABOUT CONTACT CATEGORIES CART WISH LOGOUT

Laptops

Acer Extensa Laptop Intel Pentium Quad Core
WORKING

Intel® Pentium® Silver N4020 processor 256 GB PCIe NVMe SSD 8 GB

Price: ₹ 28999.0 34 reviews

Add to cart 🛒 Wish list ❤

ASUS Vivobook K15 OLED

WORKING

Intel Core i3-1115G4 11th Gen, Thin and Light Laptop 8GB/512GB SSD

Price: ₹ 40000.0 34 reviews

Add to cart 🛒 Wish list ❤

ASUS TUF Dash F15

WORKING

FHD 144Hz; Intel Core i5-11300H 11th Gen, RTX 3050 4GB Graphics

Price: ₹ 61990.0 34 reviews

Add to cart 🛒 Wish list ❤

HP ENVY x360 Convert 13-bd0515TU

WORKING

Intel® Core™ i7 processor 512 GB PCIe NVMe™ TLC SSD

Price: ₹ 149999.0 34 reviews

Add to cart 🛒 Wish list ❤

HP Pavilion Aero Laptop 13-be0208AU

WORKING

AMD Ryzen™ 7 processor Windows 11 1 TB HDD M.2 SSD 13.3

Price: ₹ 89999.0 34 reviews

Add to cart 🛒 Wish list ❤

HP Victus 16 E Series

WORKING

Cart and Wishlist:

Cart Table:

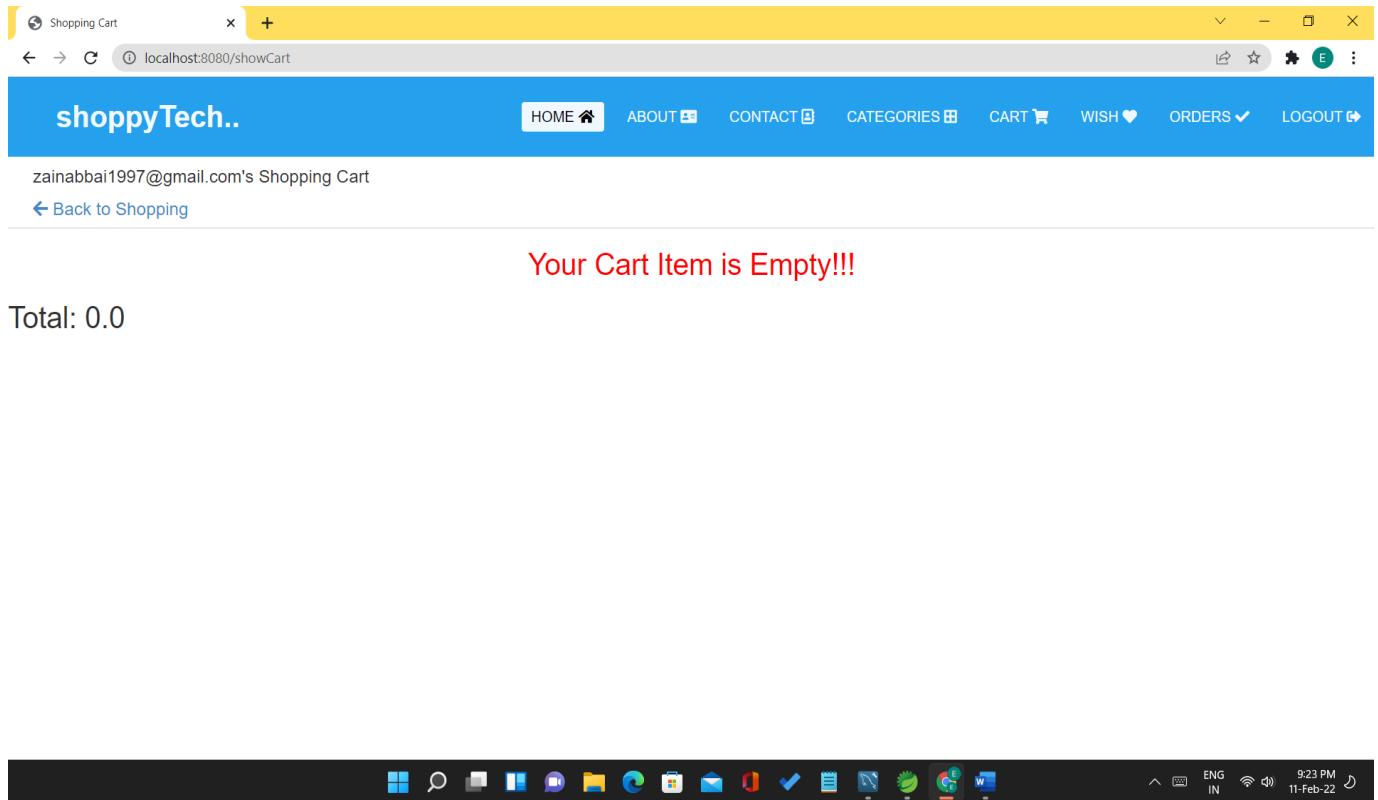
```
CREATE TABLE cart_items (
    id int auto_increment,
    product_id varchar(20) not null,
    user_email varchar(100) not null,
    PRIMARY KEY (id),
    FOREIGN KEY (product_id) REFERENCES product(id)
);
```

Wish List:

```
CREATE TABLE wish_list (
    id int auto_increment,
    product_id varchar(20) not null,
    user_email varchar(100) not null,
    PRIMARY KEY (id),
    FOREIGN KEY (product_id) REFERENCES product(id)
);
```

Customer I:(Zainab)

Empty Cart:



- We allocate separate cart and whish list space foe every customer, we allocate this by using customer email address.
- In this cart and whislist we add and remove a product according to our whish.
- On clicking **Add to cart** the product is add on cart.
- On click **wish list** product is added on wishlist.
- By clicking remove button data is removed.

Cart:

Shopping Cart x + localhost:8080/showCart

shoppyTech..

zainabbai1997@gmail.com's Shopping Cart

[Back to Shopping](#)

HP Victus 16-e0076AX
Ryzen 5 5600H 8GB DDR4 3200MHz RAM 512GB SSD 16.1-inches FHD, 60Hz
Price: ₹ 66990.0



[Wish list](#) [Remove](#)

HP Victus 16 E Series
Windows 10 laptop with a 16.10 8GB of RAM.
Price: ₹ 59990.0



[Wish list](#) [Remove](#)

Total: 126980.0

[Checkout](#)

Windows taskbar: ENG IN 9:25 PM 11-Feb-22

Wishlist:

Wish List Cart x + localhost:8080/showWishList

shoppyTech..

[Back to Shopping](#)



ASUS Vivobook Flip 14
Price: ₹ 46990.0

[Remove](#) [Add to cart](#)



HP Victus 16-e0076AX
Price: ₹ 66990.0

[Remove](#) [Add to cart](#)



Acer Aspire Vero
Price: ₹ 57990.0

[Remove](#) [Add to cart](#)

Windows taskbar: ENG IN 9:26 PM 11-Feb-22

Cart Table:

The screenshot shows the MySQL Workbench interface with the 'laptop_shop_management' database selected. In the SQL editor, the following SQL code is run:

```
15
16 • CREATE TABLE cart_items (
17     id int auto_increment,
18     product_id varchar(20) not null,
19     user_email varchar(100) not null,
20     PRIMARY KEY (id),
21     FOREIGN KEY (product_id) REFERENCES product(id)
22 );
23 • select * from cart_items;
24
```

The Result Grid shows the following data:

id	product_id	user_email
3	g1	zannabai1997@gmail.com
4	h5	zannabai1997@gmail.com
*	NULL	NULL

In the Action Output pane, the following log entries are shown:

#	Time	Action	Message	Duration / Fetch
35	21:04:11	insert into product (id,name,imglink,descp,price,style,brand) values('14','Lenovo V15 (AMD)',"https://w...",1 row(s) affected0.000 sec		
36	21:04:11	insert into product (id,name,imglink,descp,price,style,brand) values('16','Flex 5 (14,Intel)',"https://www.j...",1 row(s) affected0.000 sec		
37	21:04:11	insert into product (id,name,imglink,descp,price,style,brand) values('15','Yoga 7 Gen 6 (14, AMD)',"http...",1 row(s) affected0.000 sec		
38	21:04:11	commit	0 row(s) affected0.016 sec	
39	21:27:06	select * from cart_items LIMIT 0, 50000	2 row(s) returned0.000 sec / 0.000 sec	

➤ In this id 1and 2 is removed by using delete by id.

Wishlist:

The screenshot shows the MySQL Workbench interface with the 'laptop_shop_management' database selected. In the SQL editor, the following SQL code is run:

```
29 • select * from cart_items;
30
31 • CREATE TABLE wish_list (
32     id int auto_increment,
33     product_id varchar(20) not null,
34     user_email varchar(100) not null,
35     PRIMARY KEY (id),
36     FOREIGN KEY (product_id) REFERENCES product(id)
37 );
38 • select * from wish_list;
39
```

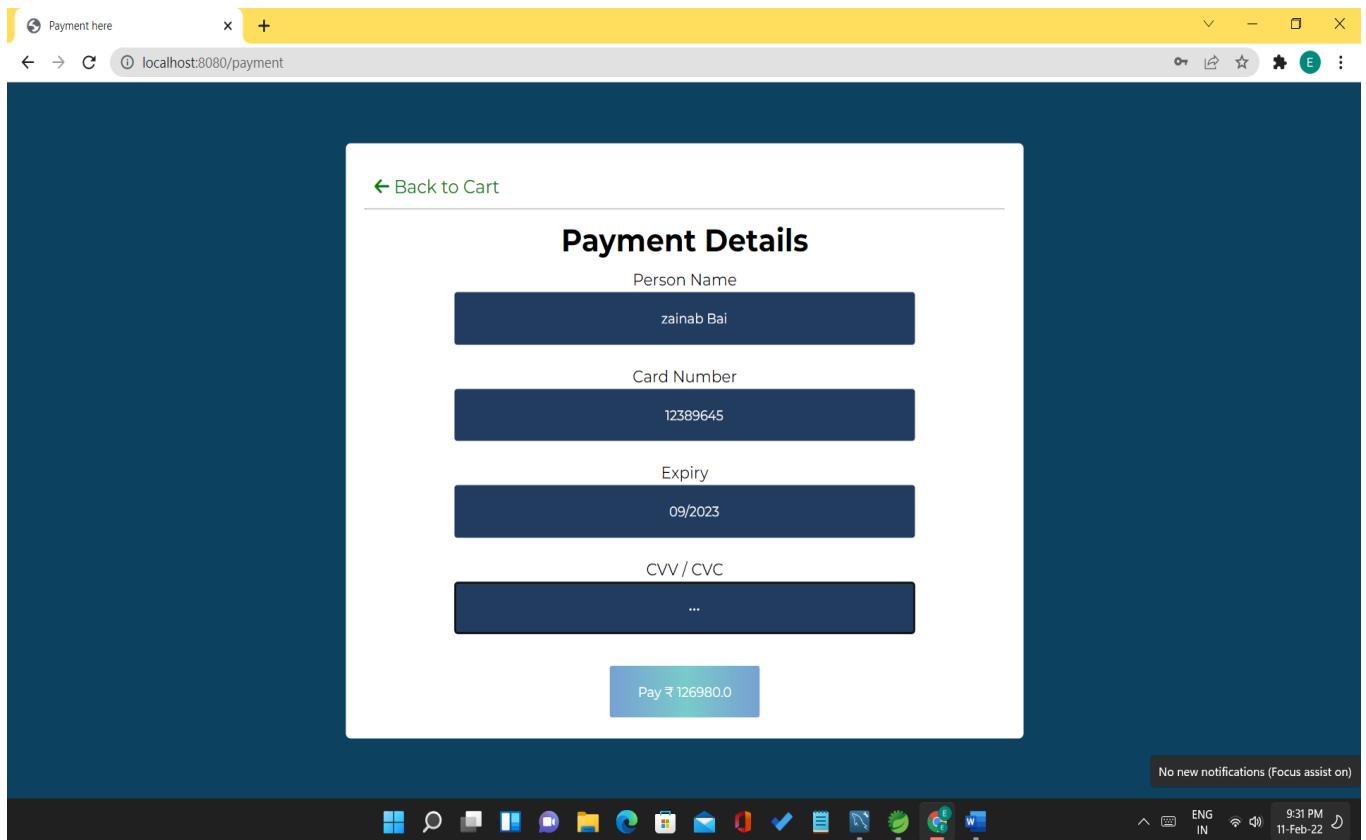
The Result Grid shows the following data:

id	user_email	product_id
2	zannabai1997@gmail.com	acer1
*	NULL	NULL

In the Action Output pane, the following log entries are shown:

#	Time	Action	Message	Duration / Fetch
1	18:20:29	use laptop_shop_management	0 row(s) affected0.000 sec	
2	18:20:45	select * from wish_list LIMIT 0.50000	1 row(s) returned0.000 sec / 0.000 sec	

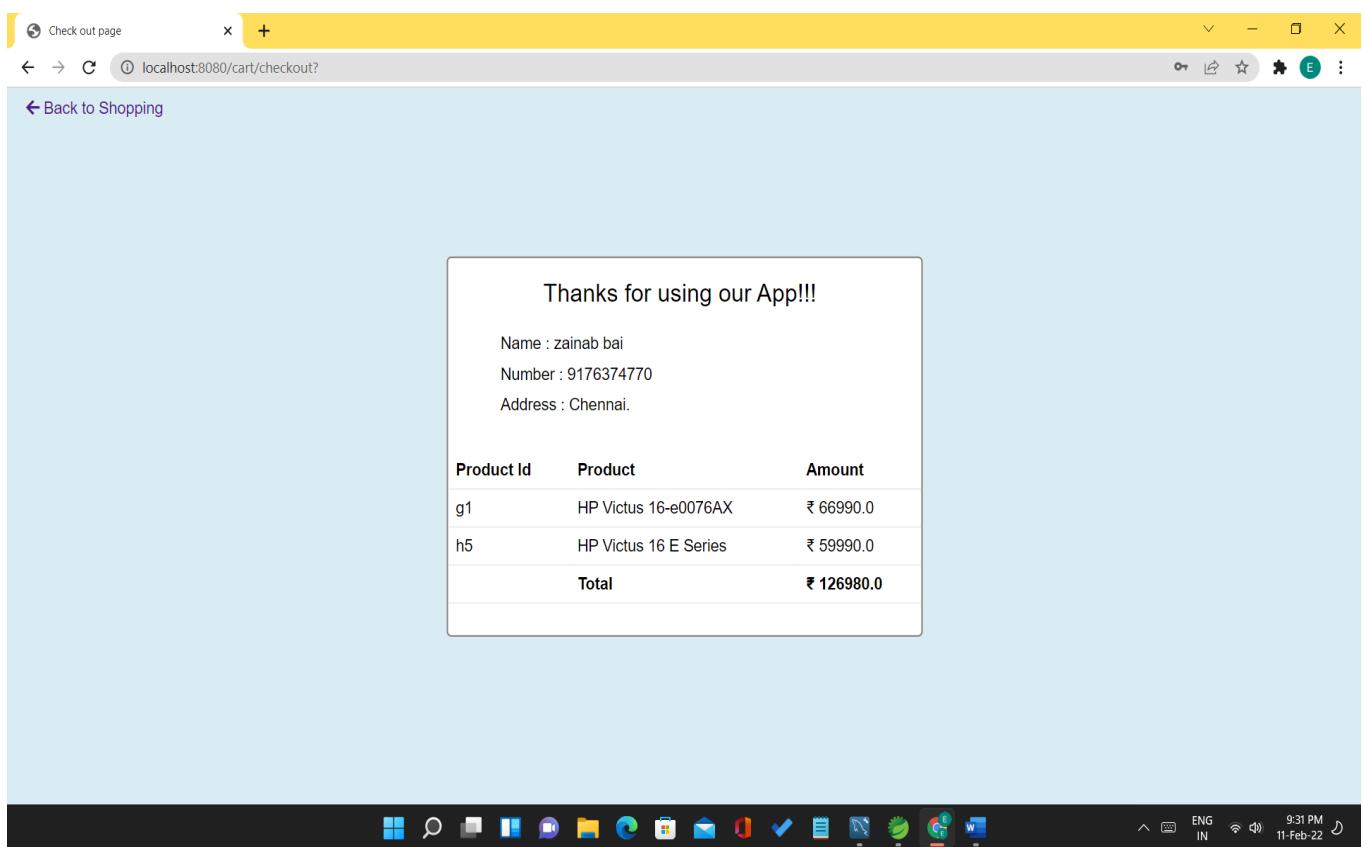
Payment page:



Checkout:

On clicking the checkout button, it prints the bill for that cart item.

Bill:



Order Table:

The screenshot shows the MySQL Workbench interface. In the top navigation bar, the database is set to 'Local instance MySQL80'. The main area displays a query editor with the following SQL code:

```
165 • select * from user;
166 • select * from users_roles;
167 • select * from product;
168 • select * from cart_items;
169 • select * from wish_list;
170 • select * from orders;
171 • commit;
172
```

The 'Result Grid' tab shows the data for the 'orders' table:

	id	user_email	product_id
▶	1	zainabbi1997@gmail.com	g1
▶	2	zainabbi1997@gmail.com	h5
•	NULL	NULL	NULL

The 'Output' tab shows the execution history:

#	Time	Action	Message	Duration / Fetch
1	21:32:32	use laptop_shop_management	0 row(s) affected	0.000 sec
2	21:32:38	select * from orders LIMIT 0, 50000	2 row(s) returned	0.000 sec / 0.000 sec

Logout:

The screenshot shows a web browser window with the URL 'localhost:8080/login?logout'. A modal dialog box is displayed with the heading 'Login Here' and the message 'You have been logged out.' Below the message are two input fields labeled 'Username' and 'Password', both containing placeholder text 'Enter Email ID' and 'Enter Password' respectively. At the bottom of the modal are 'Log In' and 'Register' buttons. The background of the browser window shows a blurred image of a laptop keyboard, a coffee mug, and a pen.

Customer II (Tom):

The screenshot shows the MySQL Workbench interface. In the SQL editor, a script is being run:

```
6 • select*from role;
7 • select*from user;
8 • select*from users_roles;
9
10 • create TABLE product (
11     id varchar(20) PRIMARY KEY NOT NULL,
12     implink varchar(255) NOT NULL;
```

The Result Grid displays the output of the 'user' query:

#	id	address	email	name	number	password
1	Chennai	zainabhai1997@gmail.com	zainab bai	1234567890		\$2a\$10\$9qvEZDBPH4owf\$2a\$10\$9qvEZDBPH4owfHF82RE5FT065n25qvU2j0EZpPT6qMDTOCOTKA.Jm...
2	Bangalore	tom123@gmail.com	Tom	3456789012		\$2a\$10\$4MtbhW8/5t15YYDtgS.RuB8dnh...

In the Session tab, the output of the 'user' query is shown:

Action Output	Time	Action	Message	Duration / Fetch
1	19:33:04	use laptop_shop_management	0 row(s) affected	0.000 sec
2	19:33:15	select*from user LIMIT 0, 50000	2 row(s) returned	0.000 sec / 0.000 sec

that user by using email address.

Empty Cart:

The screenshot shows a web browser window for 'shoppyTech..'. The URL is 'localhost:8080/showCart'. The page displays the user's shopping cart information:

tom123@gmail.com's Shopping Cart

[Back to Shopping](#)

Total: 0.0

[Checkout](#)

The browser taskbar at the bottom shows various application icons.

Cart with product:

S Shopping Cart x +
localhost:8080/showCart

shoppyTech..

HOME ABOUT CONTACT CATEGORIES CART WISH ORDERS LOGOUT

tom123@gmail.com's Shopping Cart
Back to Shopping

ASUS TUF Dash F15
FHD 144Hz, Intel Core i5-11300H 11th Gen, RTX 3050 4GB Graphics
Price: ₹ 67990.0

IdeaPad Slim 3i (15, Intel)
4 GB Soldered DDR4 2666MHz + 4 GB SO-DIMM DDR4 2666MHz
Price: ₹ 39190.0

Total: 107180.0

Checkout

Windows taskbar: 9:50 PM 11-Feb-22 ENG IN

Wishlist:

S Wish List Cart x +
localhost:8080/showWishList

shoppyTech..

HOME ABOUT CONTACT CATEGORIES CART WISH ORDERS LOGOUT

Back to Shopping

HP Chromebook x360 AMD 3015CE
Price: ₹ 30990.0

Flex 5i (14,Intel)
Price: ₹ 64800.0

Remove

Add to cart

Windows taskbar: 9:50 PM 11-Feb-22 ENG IN

Add and Removal of Customer II database:

Cart:

The screenshot shows the MySQL Workbench interface with the following details:

- Schemas:** The current schema is "laptop_shop_management".
- Query Editor:** The code shown is:

```
15
16 • CREATE TABLE cart_items (
17     id int auto_increment,
18     product_id varchar(20) not null,
19     user_email varchar(100) not null,
20     PRIMARY KEY (id),
21     FOREIGN KEY (product_id) REFERENCES product(id)
22 );
23 • select * from cart_items;
```
- Result Grid:** The result of the query shows two rows of data:

id	product_id	user_email
6	ASUSS	tom123@gmail.com
8	I1	tom123@gmail.com
*	HULL	HULL
- Output Window:** Shows the history of actions taken:

#	Time	Action	Message	Duration / Fetch
1	21:52:05	use laptop_shop_management	0 row(s) affected	0.000 sec
2	21:52:12	select * from cart_items LIMIT 0, 50000	2 row(s) returned	0.000 sec / 0.000 sec

- In this product of customer II is added and removed.

Wishlist:

The screenshot shows the MySQL Workbench interface. In the top navigation bar, the database is set to 'Local instance MySQL80'. The 'Schemas' pane on the left lists several databases, with 'laptop_shop_management' selected. The 'Tables' section under this schema contains 'books_db', 'employeemanagement', 'laptop_shop_management', 'placementmanagement', 'quartz_demo', 'sakila', 'sms', and 'spring_shoppingcartdb'. The central query editor window displays the following SQL code:

```
CREATE TABLE wish_list (
    id int auto_increment,
    product_id varchar(20) not null,
    user_email varchar(100) not null,
    PRIMARY KEY (id),
    FOREIGN KEY (product_id) REFERENCES product(id)
);
select * from wish_list;
select * from product where style='newlaptop';
```

The 'Result Grid' pane below the code shows the results of the first two queries:

ID	Product ID	User Email
3	ASUS3	zainabba1997@gmail.com
4	g1	zainabba1997@gmail.com
5	a5	zainabba1997@gmail.com
7	h4	tom123@gmail.com
9	l6	tom123@gmail.com

The 'Output' pane at the bottom shows the log of actions taken:

#	Time	Action	Message	Duration / Fetch
1	21:52:05	use laptop_shop_management	0 row(s) affected	0.000 sec
2	21:52:12	select * from cart_items LIMIT 0, 50000	2 row(s) returned	0.000 sec / 0.000 sec
3	21:53:07	select * from wish_list LIMIT 0, 50000	5 row(s) returned	0.000 sec / 0.000 sec

Payment Page:

The screenshot shows a web browser window with the URL 'localhost:8080/payment'. The page title is 'Payment here'. The main content is a 'Payment Details' form:

Back to Cart

Payment Details

Person Name: Tom

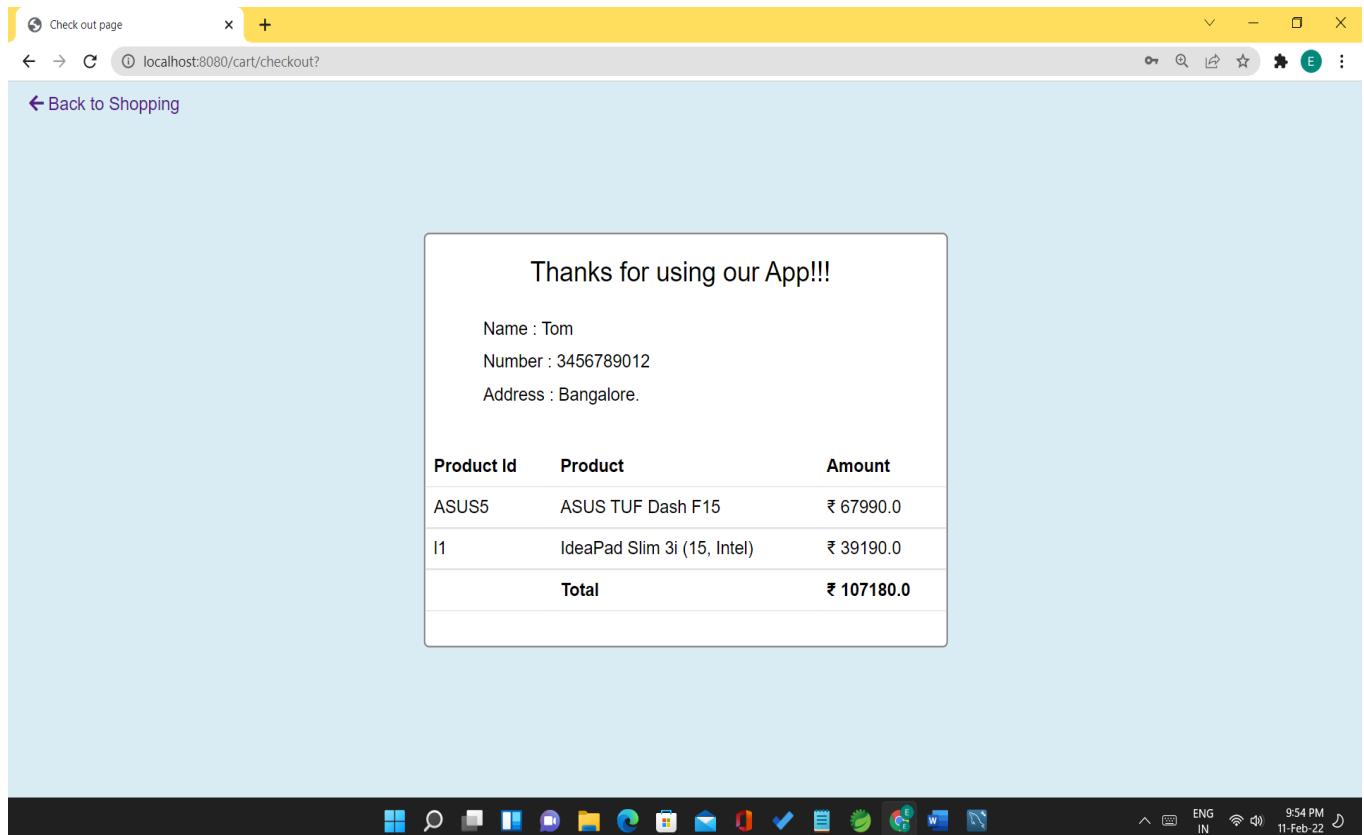
Card Number: 1234 5678 123456

Expiry: 09-2029

CVV / CVC: [redacted]

Pay ₹ 107180.0

Checkout:



Order Table:

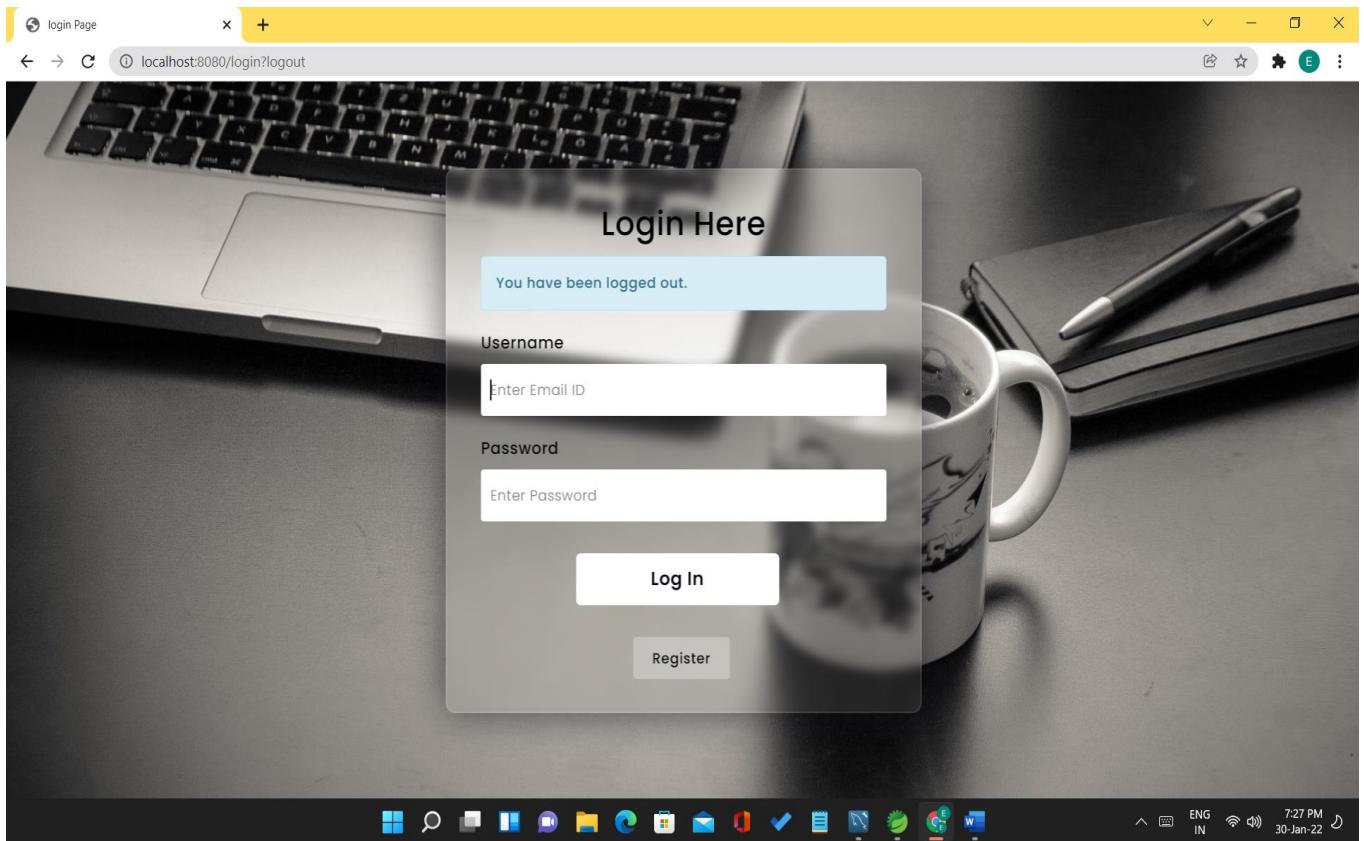
The screenshot shows the MySQL Workbench interface. The left sidebar shows the Navigator with the 'laptop_shop_management' schema selected. The central pane displays the 'orders' table in a Result Grid format. The table has four columns: id, user_email, product_id, and quantity. The data shows four rows of orders placed by different users. Below the table, the 'Output' pane shows the execution history of the query used to retrieve the data.

id	user_email	product_id	quantity
1	zainabai1997@gmail.com	g1	1
2	zainabai1997@gmail.com	h5	1
3	tom123@gmail.com	ASUS5	1
4	tom123@gmail.com	I1	1
*	NULL	NULL	NULL

Output:

#	Time	Action	Message	Duration / Fetch
1	21:57:19	use laptop_shop_management	0 row(s) affected	0.000 sec
2	21:57:26	select * from orders LIMIT 0, 50000	4 row(s) returned	0.000 sec / 0.000 sec

Logout:



Thank You