

IT4020 Modern Topics in IT 4th Year, 1st Semester

Group Project 4- Group Report

Group ID – MTIT-028

Submitted By:

Registration Number	Name	Workload (Micro-Services)	
IT19121802	Sharmilan S	Payment Management	
IT19241760	Nilakshana R	Product Management	
IT 19029832	Kithusshand R	Order Management	
IT19119618	Sriram R	User Management	

Introduction

ES is exactly analogous to a marketplace on the internet. ES (also referred as EC, e-commerce) consist primarily of the distributing, buying, selling, marketing, and servicing of products or services over electronic systems such as the internet and other computer networks. E-commerce follows – that is, buyers and sellers exchange and transport goods from one place to another. But rather than conducting business in the tradition way-in stores and other "brick and mortar" buildings or through mail order catalogs and telephone operators- in e- commerce buyers and sellers transact business over networked computers.

E-commerce also has some disadvantages, however. Consumers are reluctant to buy someproducts online. Online furniture business, for example, have failed for the most part because customers want to test the comfort of an expensive item such as a sofa before they purchase it. Consumers also need to be reassured that credit card transaction are secure and that their privacy is respected.

1. Members' Details and Workload Allocation

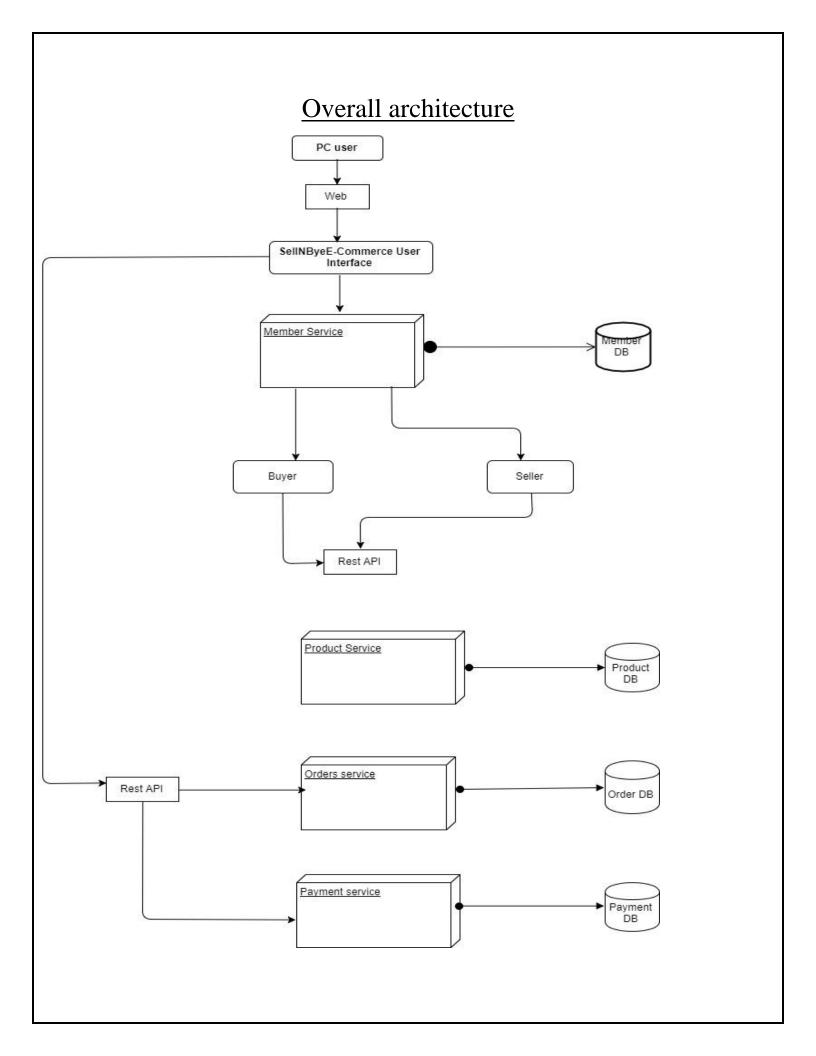
IT Number	Name	Web Service	Description of the Web Service
IT19121802	Sharmilan S	Payment Management	 Add Payment Details Update Payment Details. Delete Payment Details. View Payment Details.
IT19241760	Nilakshana.R	Product Management	 Add a new product. View product details Update product details Delete product fromsystem.
IT 19029832	Kithusshand R	Order Management	Add OrderUpdate OrderDelete OrderView Order
IT19119618	Sriram R	User Management	Add UserUpdate UserDelete UserView User

 $\textbf{Clickable Link (VCS repo)} - \underline{https://github.com/SharmBB/MTIT-4}$

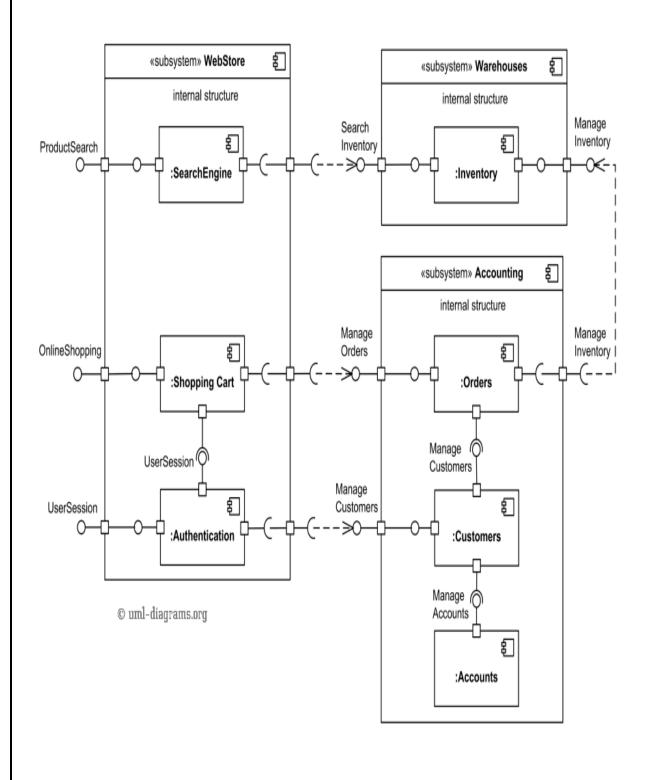
Tools and Technology used in this project.

Technology: Laravel, PHP web framework

Database: MySQL Database.



Component Diagram



5. Individual Services

Student IT Number: IT19121802 Web Service: Payment Management

Service Development

Technologies Used: Laravel, PHP web framework

IDE : Visual Studio
 Database : MySQL
 Testing : Insomnia

//Read

API for get all the Payment details in the database (GET Request)

URL: http://127.0.0.1:8000/api/getPayment

Resource: PaymentService

Request: GET getPayment

Responce: benefactor,payer,amount,account_Number,bank

//Insert

API for register Payment to the database (POST Request)

URL: http://127.0.0.1:8000/api/add

Request: POST add

Media: Application form URL Encoded

{

```
"benefactor": "Sharmilan",
```

"payer": "Nilu",

"amount": "2000",

"accountNumber": "200034678",

```
"bank": "Commercial Bank"
}
Response: {
 "errorMessage" = false,
  message = "Payment Added Successfully"
//Delete
API for Delete Payment to the database (DELETE Request)
URL: http://127.0.0.1:8000/api/deletePayment
Request: DELETE deletePayment
Media: Application form URL Encoded
     "id":5
Response: {
 "errorMessage" = false,
  message = "Payment details Deleted Successfully"
```

}

//Update

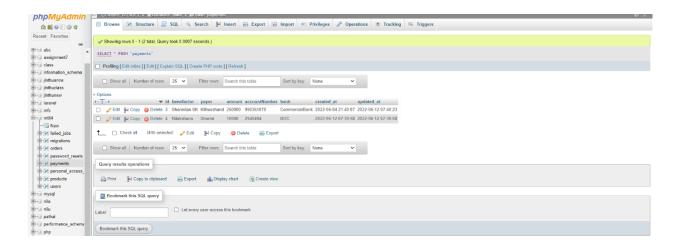
API for Update Payment to the database (PUT Request)

Testing Methodology and Results

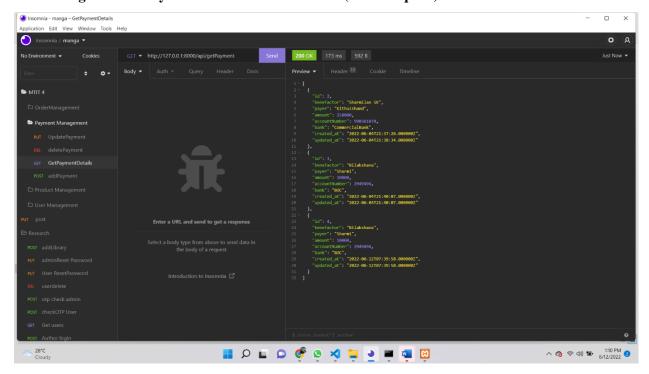
Test ID	Test Description	Test Inputs	Expected Output	Actual Output	Result (pass/fail)
01	Inserting Data	" benefactor ":" Sharmilan ", " payer ":" Nilu ", " amount ":"2000", "accountNumber":"20003468, " bank ":" Commercial Bank "	Inserted successfully	Inserted successfully	Pass
02	Updating Data	" id ":3, " benefactor ":" Sharmilan ", " payer ":" Nilu ", " amount ":"2000", "accountNumber":"20003468, " bank ":" Commercial Bank "	Updated successfully	Updated successfully	Pass
03	Deleting Data	id = 3	Deleted successfully	Deleted successfully	Pass

Screenshots

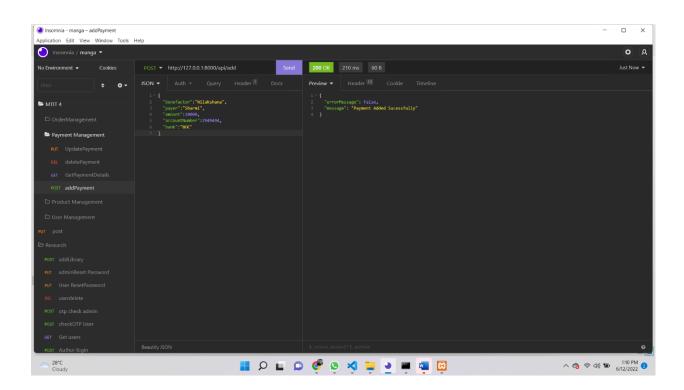
Database



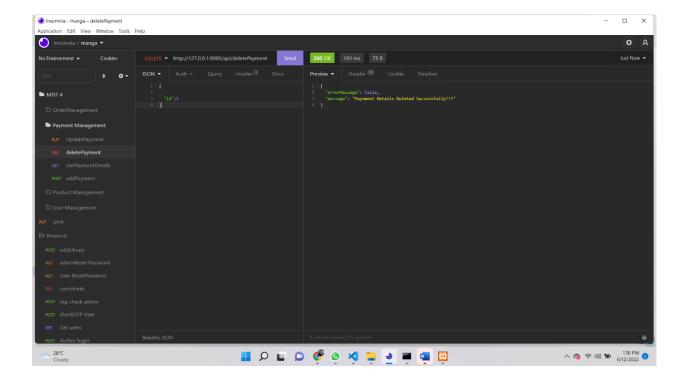
API for get all the Payment details in the database (GET Request)



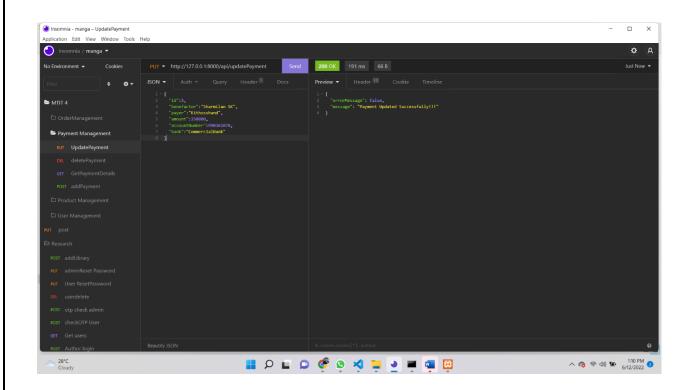
API for register Payment to the database (POST Request)



API for Delete Payment to the database (DELETE Request)



API for Update Payment to the database (PUT Request)



```
Student IT Number: IT19241760 Web Service: Product Management
```

```
//Read
API for get all the Product details in the database (GET Request)
URL: http://127.0.0.1:8000/api/getProduct
Request: getProduct
Responce: Product_ID, Product Name, Product Type, Price Quantity
//Insert
API for register Product to the database (POST Request)
URL: http://127.0.0.1:8000/api/addProduct
Request: POST api/addProduct
Media: JSON
      "productID": "P005",
      "productName": "running shoe",
     "productType":"Shoes",
     "price":3000,
     "Quantity":25
Response:
                     "errorMessage": false,
```

"message": "Product Added Sucessfully"

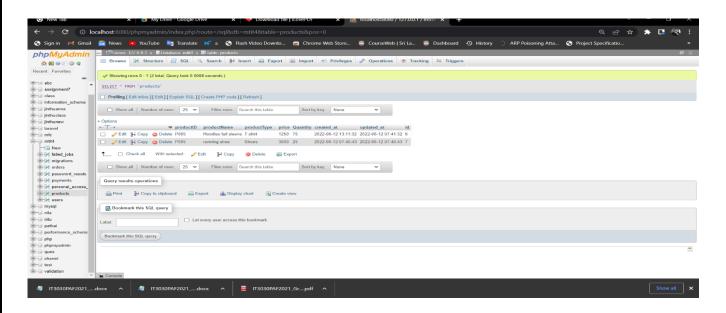
```
//Delete
API for Delete Product to the database (DELETE Request)
URL: http://127.0.0.1:8000/api/deleteProduct
Request: DELETE api/deleteProduct
Media: Application JSON
{
     "id":5
Response:
 {
     "errorMessage": false,
     "message": "Product Deleted Successfully!!!"
}
//Update
API for Update Product to the database (PUT Request)
URL: http://127.0.0.1:8000/api/update
Request: PUT api/update
Media: Application JSON
{
     "productID": "P005",
     "productName":"Hoodies full sleeve",
     "productType":"T shirt",
     "price":1250,
     "Quantity":75,
     "id":6
}
```

Testing Methodology and Results

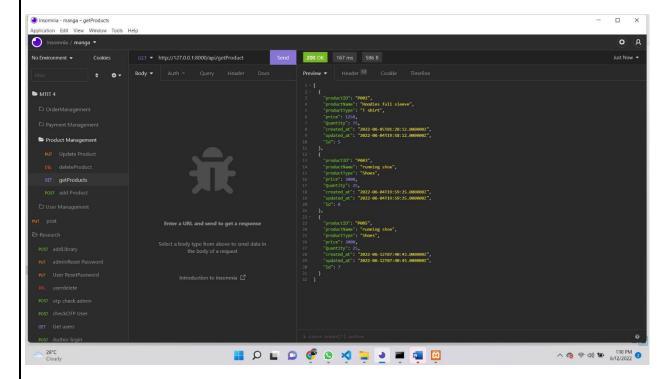
Test	Test	Test Inputs	Expected	Actual	Result
ID	Description		Output	Output	(pass/fail)
01	Inserting Data	"productID":"P005", "productName":"runningshoe", "productType":"Shoes",	Inserted successfully	Inserted successfully	Pass
		"price":3000, "Quantity":25			
02	Updating Data	"productID":"P005", "productName":"Hoodies fullsleeve", "productType":"T shirt", "price":1250, "Quantity":75, "id":6	Updated successfully	Updated successfully	Pass
03	Deleting Data	id= 1	Deleted successfully	Deleted successfully	Pass

Screenshots

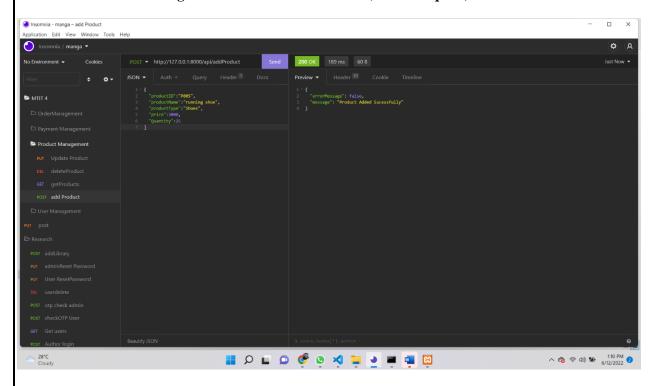
Database



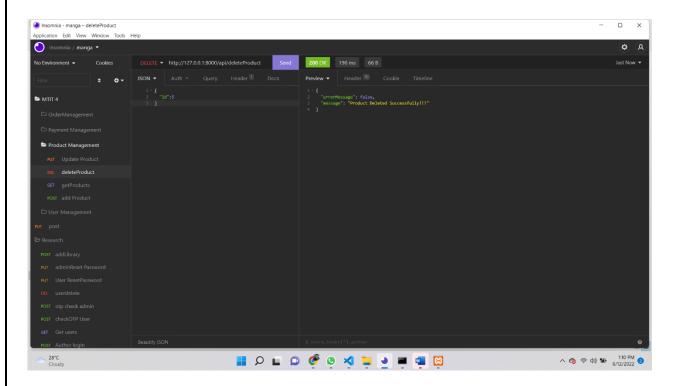
API for get all the Product details in the database (GET Request)



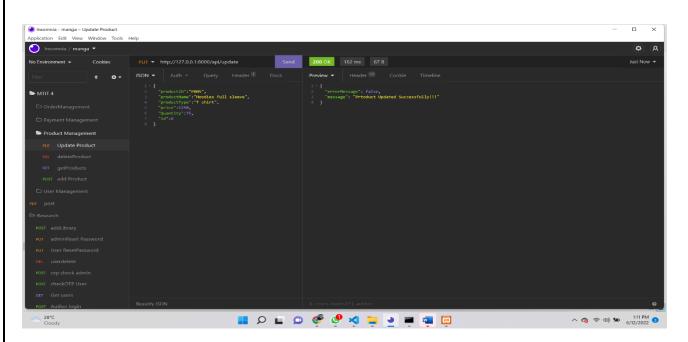
API for register Product to the database (POST Request)



API for Delete Product to the database (DELETE Request)



API for Update Product to the database (PUT Request)



```
Student IT Number: IT19029832
                                            Web Service: Order Management
//Read
API for get all the Product details in the database (GET Request)
URL: http://127.0.0.1:8000/api/getOrders
Request: getOrders
Responce: productName, orderAddress, phoneNumber, email, totalCost, customer_name
//Insert
API for register Order to the database (POST Request)
URL: http://127.0.0.1:8000/api/addOrder
Media: JSON
     "customer_name":"ram",
      "productName": "shoe",
      "orderAddress": "dehiwala",
     "phoneNumber":776165366,
     "email": "ram@gmail.com",
     "totalCost":3500
Response:
             {
                    "errorMessage": false,
                    "message": "Order Placed Sucessfully"
```

API for Delete Orders to the database (DELETE Request)

URL: http://127.0.0.1:8000/api/deleteOrder

//Delete

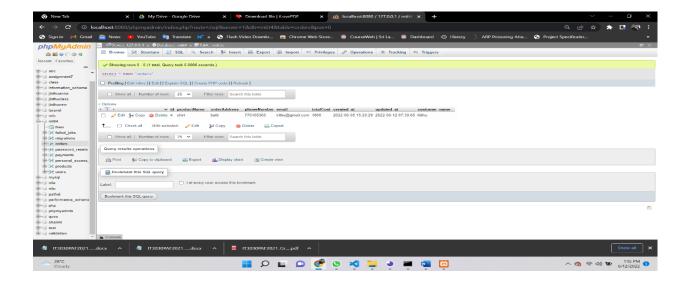
```
Request: DELETE
 Media: Application JSON
 {
       "id":5
 Response:
  {
       "errorMessage": false,
       "message": "Product Deleted Successfully!!!"
 }
 //Update
 API for Update Order to the database (PUT Request)
 URL: http://127.0.0.1:8000/api/updateOrder
Request: PUT
 Media: Application JSON
 {
       "id":4,
       "customer_name":"Kithu",
       "productName": "shirt",
       "orderAddress": "batti",
       "phoneNumber":776165366,
       "email":"kithu@gmail.com",
       "totalCost":1800
 }
 Response: {
       "errorMessage": false,
       "message": "Order Updated Successfully!!!"
 }
```

Testing Methodology and Results

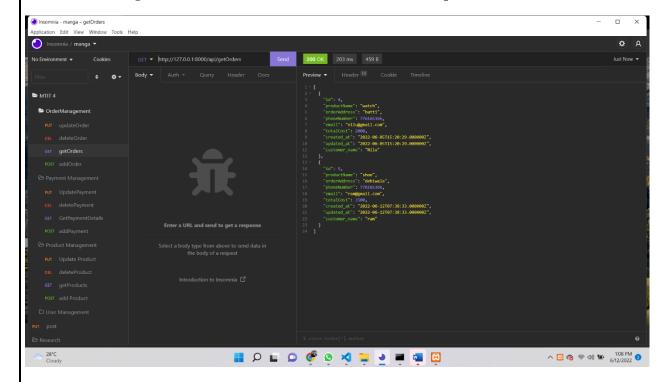
Test	Test	Test Inputs	Expected	Actual	Result
ID	Description		Output	Output	(pass/fail)
01	Inserting Data	"customer_name":"ram",	Inserted	Inserted	Pass
		"productName":"shoe",	successfully	successfully	
		"orderAddress": "dehiwala",			
		"phoneNumber":776165366,			
		"email":"ram@gmail.com",			
		"totalCost":3500			
02	Updating Data	W. 4W. A	Updated	Updated	Pass
		"id":4,	successfully	successfully	
		"customer_name":"Kithu",			
		"productName":"shirt",			
		"orderAddress":"batti",			
		"phoneNumber":776165366,			
		"email":"kithu@gmail.com",			
		"totalCost":1800			
03	Deleting Data	id= 1	Deleted	Deleted	Pass
			successfully	successfully	

Screenshots

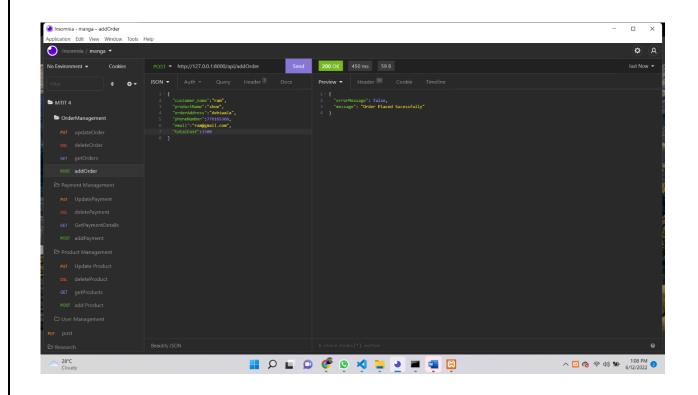
Database



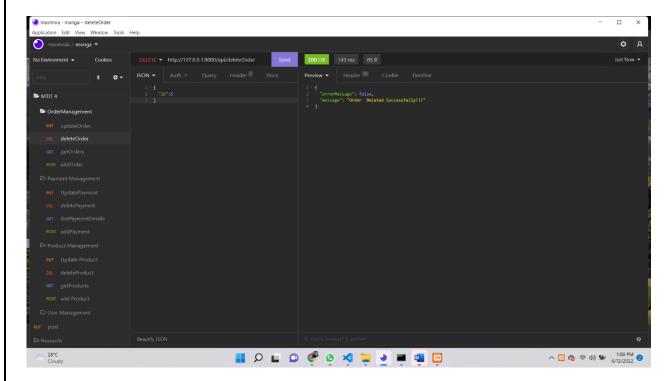
API for get all the Order details in the database (GET Request)



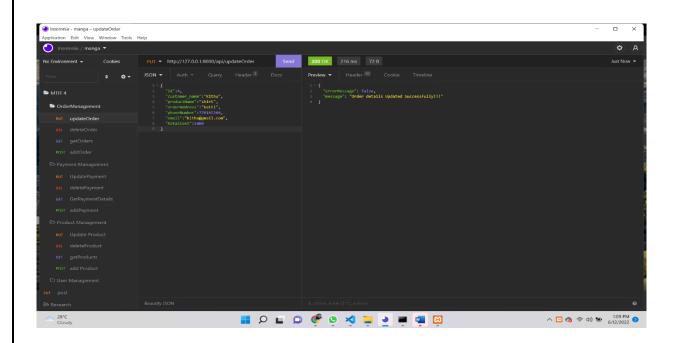
API for register Order to the database (POST Request)



API for Delete Orde to the database (DELETE Request)



API for Update Order to the database (PUT Request)



```
//Read
 API for get all the User details in the database (GET Request)
 URL: http://127.0.0.1:8000/api/get
 Request: GET api/get
 Responce: User's Details like name, email,
 address
 //Insert
 API for register user to the database (POST Request)
 URL: http://127.0.0.1:8000/api/addUser
 Request: POST api/addUser
 Media: Application JSON
       "name":"Kithusshand",
       "email": "kithusshand0@gmail.com",
       "password":"Kithusshand@99",
       "phone":"0772502342"
 Response:
       "errorMessage": false,
       "message": "User Added Sucessfully"
}
```

```
//Delete
API for Delete User to the database (DELETE Request)
URL: http://127.0.0.1:8000/api/deleteUser
Request: DELETE api/deleteUser Media:
Application JSON
      "id":8
}
Response:
{
      "errorMessage": false,
      "message": "User Deleted Successfully!!!"
}
//Update
API for Update User to the database (PUT Request)
URL: http://127.0.0.1:8000/api/updateUser
Request: PUT api/updateUser
Media: Application JSON
```

"id":8,

Response: {

}

"name": "sharmilan",

"phone":"0772502342"

"errorMessage": false,

"email":"kithu0@gmail.com",
"password":"Kithusshand@99",

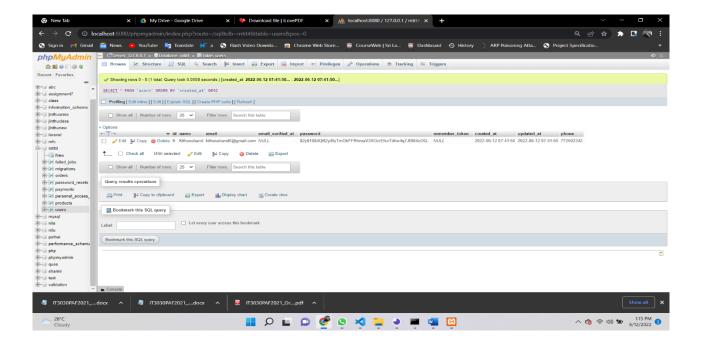
"message": "User Updated Successfully!!!"

Testing Methodology and Results

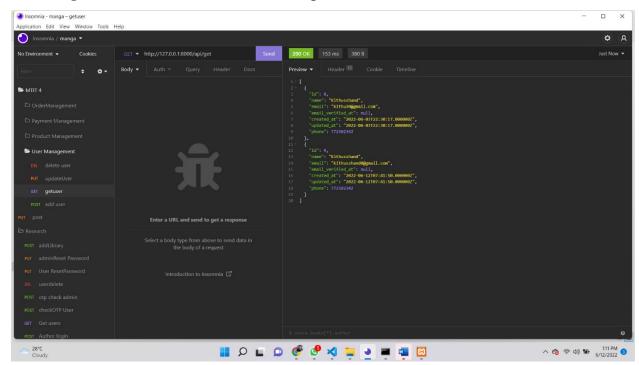
Test ID	Test Description	Test Inputs	Expected Output	Actual Output	Result (pass/fail)
01	Inserting Data	"name":"Kithusshand", "email":"kithusshand0@gmail.com", "password":"Kithusshand@99", "phone":"0772502342"	Inserted successfully	Inserted successfully	Pass
02	Updating Data	"id":8, "name":"sharmilan", "email":"kithu0@gmail.com", "password":"Kithusshand@99", "phone":"0772502342"	Updated successfully	Updated successfully	Pass
03	Deleting Data	id = "1"	Deleted successfully	Deleted successfully	Pass

Screenshots

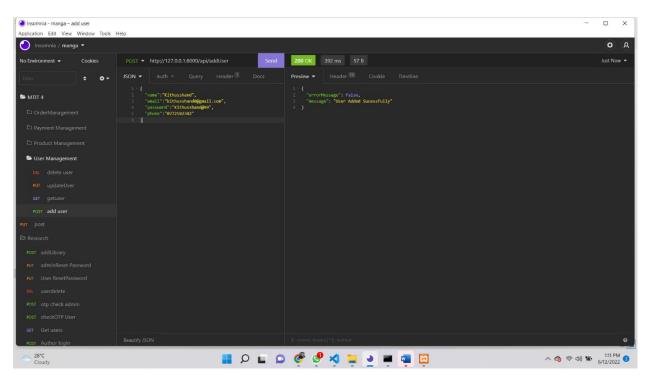
Database



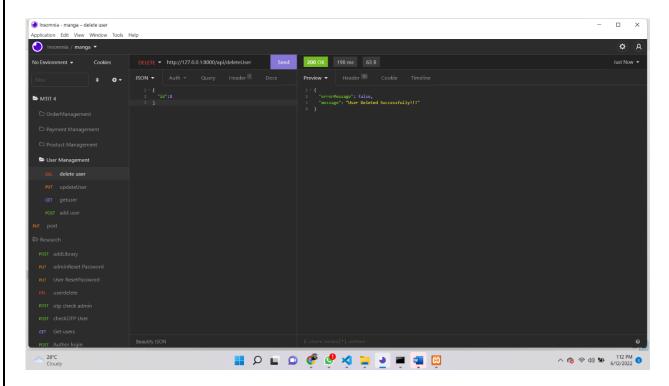
API for get all the User details in the (GET Request)



API for register User to the database (POST Request)



API for Delete User to the database (DELETE Request)



API for Update User to the database (PUT Request)

