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1. INTRODUCTION

Most of the students face the issue of losing access to a marketplace like COS during lockdowns and early in-time in hostels and are starved for basic necessities. The vendors, as well, are faced with the issue of decreased sales and food wastage. This made some of the vendors on our campus go into online mode, but that couldn't create an impact either. Through our project, we intend to help digitalise the shops in order to help them achieve a better profit margin as well as to make the students' lives a bit less hectic. We propose building a website that will unite all the vendors on our campus and will bring them on a unified platform where students can order things from anywhere on the campus directly to their hostels without worrying about hostel in-times and COVID regulations.

1.1 OBJECTIVES

- 1. To provide students with an easy method to purchase things from various merchants on campus.
- 2. Using a common platform, bring together multiple suppliers on campus.
- 3. It would save time and contact between the buyer and the seller in the event of a covid pandemic.

1.2 TARGET AUDIENCE

With classes, hectic social lives and constantly walking for long periods of time in the campus, the simple and bland mess food simply doesn't cut it for students, many of which look for tastier and more fulfilling food options. This also turns out to be quite troublesome for students as they have to walk long distances to visit general stores to meet their daily necessities.

Our website targets these people who want convenient and good quality products which are easily accessible to them in their hostel rooms, even in odd hours where one might find themselves struggling to get hold of basic needs.

Vendors across the campus, whether it be food stalls or general purpose stores, can register on our website and students can request their services.

1.3 PRODUCT SCOPE

Our project which will initially begin with serving the customers inside our institute's campus, won't just stop there. We plan on constant improvement, both in terms of features and the scope of this project. A significant part of our efforts will depend on how the initial versions are perceived by the customers and will also depend on their worthy feedback.

However, we do have some future visions in our minds. Some of them are:

- Expanding our project so that other colleges and universities may also use it
- Adding a 'favourites' feature which will allow users to save their most frequent orders for easy ordering
- Adding filters to sort items based on various categories
- A feature to enable chatting between customers and sellers for a seamless experience
- A feature to schedule delivery time to ensure that a customer may receive his order when he needs it the most
- A 'minimum order value' feature for sellers who want to take advantage of it so that their resources may not be wasted for deliveries less than a specified amount

2. REQUIREMENT ANALYSIS

2.1 User Interaction with the website:

The following are the actions that users can take on our web application:

- Searching for products on the home page or throughout the website, and how or on what basis. Products can be found by searching for them by product name, category, brand, and so on.
- Users will be able to maintain a cart, they can add their products, remove their products and can also be able to see their total payment of products in their cart, then can proceed to checkout with payment.
- Adding products to a wish-list. This can help users to add their basic requirements that they want to buy and also add some products that they found of their like or interest.
- Creating an account with their personal details is mandatory for buying products. The user must be logged in to place orders, while creating an account they have to give their personal details such as their address, phone number etc.
- The customers will be provided with the option to rate the products they buy, so that it can help others while exploring products.

2.1.1 Seller console

This part deals with functionality of sellers that they are provided with:

- Seller will be able to maintain inventory of their products. They can add or remove products, change their price, change availability.
- Seller will be notified when stock of a product reaches a particular threshold, so that they can refill the stocks before it becomes out of stock and if any issues they will notify customers that particular product is out of stocks.
- Sellers are responsible for adding their product's description images, price (sales/offers), and their own description like who are they and what do they sell.

2.1.2 Admin Console

The aspects that admin can control from the backend and included the following:

- Product Management All product metadata, such as its images, descriptions, seller information, and prices. The administrator should be able to control this data, such as adding, removing, and editing products.
- Content management The front-end design of the website, i.e. the static pages that a user views. To attract and keep traffic, it's critical to design an appealing and successful website.
- Master Management In addition to product data, other
 masters must be controlled on the back end. Country, state,
 and city masters, as well as seller masters, are some
 examples. When a user provides a pin code while entering a
 shipping address, for example, pin code masters assist in
 extracting a city.

2.2 Management of inventory and logistics, as well as order fulfilment:

Remember how we add some products to our wish lists and when it's time to buy them, some of the products go out of stock. Or when a sale is announced at midnight, but you log in the next morning to find that the items on sale were purchased the night before. We've all been in similar situations. This administration is critical on the backend to maintain the website up to date with the most recent figures. All logistics and stock details should be preserved in a robust system, whether new products are added, products are returned or exchanged, or orders are despatched. Additionally, some organisations require fulfilment systems that can be used by the dispatch and customer service teams once the products have been ordered. As a result, we're including all of this features in our project. We will also provide a database to sellers so that they can see product stock levels and refill them when they reach the threshold limit. If there is an issue, they should notify customers that the item is out of stock. Admin will have access to it as well.

2.3 Checkout and Payment for Users

- Before placing an order, users must first create an account and register, as they will be requested to fill out their personal information.
- There are a variety of payment alternatives available, including cash on delivery, e-wallets, and third-party payment gateways. Vendors are chosen based on the needs of the company.
- The costs and techniques of shipping, these can either be kept up to date in the backend or set static.

3. APPLICATION FEATURES AND DESCRIPTION

The user can login using their account on the website. The features and functions provided to the user will depend on the account type(customer/seller) that they used to authenticate into the web application. The user will be provided with the following features: Customer account-

- Browse available sellers and their products and services
- Place order for the available items (within delivery service hours)
- Add descriptive reviews for the products and store
- Access purchase history
- · Maintain a shopping cart

Seller account-

- Maintain an inventory of the products and services offered by the store
- · Accept or deny the order requests received
- · Make changes in the price of their products and services
- · Change the order delivery service hours

4. SOFTWARE REQUIREMENT

4.1 Front end:

 HTML - HTML is the code that is used to structure a web page and its content. It can be assisted by technologies such as Cascading Style Sheets and scripting languages such as JavaScript

- CSS CSS is the language we use to style an HTML document. CSS describes how HTML elements should be displayed.
- JavaScript JavaScript is a programming language that is one of the core technologies of the World Wide Web, alongside HTML and CSS. It can power features like interactive images, carousels, and forms.
- React React is a free and open-source front-end JavaScript library for building user interfaces based on UI components.
- Redux Redux is an open-source JavaScript library for managing and centralising application state. It is most commonly used with libraries such as React for building user interfaces.

4.2 Back end:

- NodeJS Node.js is an open-source, cross-platform, backend JavaScript runtime environment that runs on the V8 engine and executes JavaScript code outside a web browser. It is used for traditional web sites and back-end API services.
- ExpressJS Express.js, or simply Express, is a back end web application framework for Node.js. The primary use of Express is to provide server-side logic for web and mobile applications, and as such it's used all over the place.
- MongoDB MongoDB is a source-available cross-platform document-oriented database program. It provides different ways to perform aggregation operations on the data like aggregation pipeline, map reduce or single objective aggregation commands.

5. OPERATING ENVIRONMENT

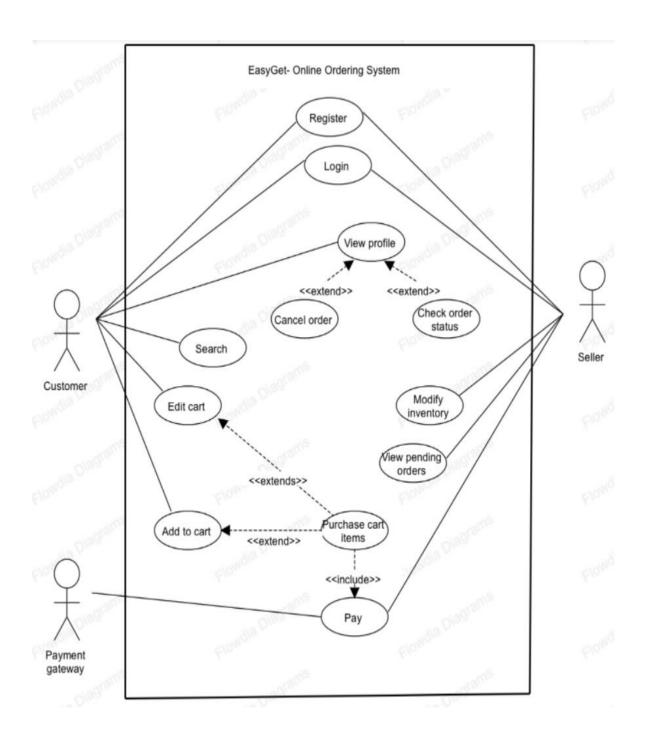
5.1 Operating System Constraint

System should be compatible and will smoothly runon Web version 6.0 or above.

5.2 Device Constraint

The EASY GET's core system and its user(customer/seller) interfaces should be compatible with tablets, mobile phones and desktops/laptops. However, running on small web mobile devices(like smart watches) is not necessary.

- 6. ANALYSIS PHASE
- **6.1 USE CASE DIAGRAM**



6.2 USE CASE TEMPLATES

1. Use Case Title	Register
2. Abbreviated Title	Register
3. Use Case ID	1
4. Actors	Customer

5. Description

New users can register themselves as customers using the Register feature by providing valid login credentials and more personal information and other required details.

5.1. Pre Conditions

1. Customer ID should be unique.

5.2. Task Sequence

- 1. Click on Sign Up/Register button.
- 2. Fill out all the columns with relevant info.
- 3. Click on Submit button.

5.3. Post Conditions

1. Customer can now login into his/her account with the registered credentials.

1. Use Case Title	Login
2. Abbreviated Title	Login
3. Use Case ID	2
4. Actors	Customer

5. Description

Customers who have already registered can login into their accounts and place orders or maintain carts.

5.1. Pre Conditions

1. Customer should have a registered account.

5.2. Task Sequence

- Go to the login page.
 Enter your credentials.
- 3. Click on login button.

5.3. Post Conditions

- 1. Customer will be logged into their account if credentials are valid.
- 2. Error message will be displayed if customer has entered wrong credentials.

1. Use Case Title	View Profile
2. Abbreviated Title	View Profile
3. Use Case ID	3
4. Actors	Customer

5. Description

View Profile feature allows the customer to view their personal details, past orders, payment info,etc...

5.1. Pre Conditions

1. Customer must be logged in to his/her account.

5.2. Task Sequence

- 1. Login into your account.
- 2. Click on View Profile button

5.3. Post Conditions

1. Customer profile page will be displayed

1. Use Case Title	Cancel Order
2. Abbreviated Title	Cancel Order
3. Use Case ID	4
4. Actors	Customer

5. Description

The Cancel Order feature allows the customer to cancel the orders they have placed. This has to be done within 5 minutes of placing an order.

5.1. Pre Conditions

- Customers must have placed an order.
 The order placed by the customer should be within 5 minutes of placing the order.

- 5.2. Task Sequence1. Go to View Profile > My Orders.2. Select the order that is to be cancelled.
- 3. Click on cancel order.

5.3. Post Conditions

- 1. The order will be cancelled.
- 2. Refund will be initiated.

1. Use Case Title	Search
2. Abbreviated Title	Search
3. Use Case ID	5
4. Actors	Customer

5. Description

With this search facility, customer can specify any search criteria to apply to products and find the products he/she needs

5.1. Pre Conditions

Customers must have access to the site.

5.2. Task Sequence

- 1. Search Bar will be shown on the screen.
- 2. Type the name or part of the category of the product you want to search for.
- 3. Click on the search button and you will get desired results.

5.3. Post Conditions

- 1. Customers can view desired results.
- 2. Customers can go for another search.

1. Use Case Title	Edit Cart
2. Abbreviated Title	Edit Cart
3. Use Case ID	6
4. Actors	Customer

5. Description

Edit Cart can allow the customer to modify the quantity of items in the cart or to remove the items from the cart.

5.1. Pre Conditions

1. Customers must be logged in.

5.2. Task Sequence

- 1. Click on the cart button to land on the edit cart page.
- 2. Customers can then use the designated buttons like remove from cart, or the quantity button to edit craft.

5.3. Post Conditions

- 1. Customers can purchase the items in the cart.
- 2. Customers can continue shopping for more items.

1. Use Case Title	Add to cart
2. Abbreviated Title	Add to cart
3. Use Case ID	7
4. Actors	Customer

5. Description:-

When a customer finds the product they want, they can add the product to the shopping cart. The system stores and tracks the information about products.

5.1. Pre Conditions:-

Customer should be registered and logged in.

5.2. Task Sequence:-

- 1. Customer enter the product to be searched.
- 2. The system searches the product in the database.
- 3.If customer find their product they can add it to cart.

5.3. Post Conditions:-

- 1. Customer can now proceed to payment.
- 2. Customer can also remove the product from cart.

1. Use Case Title	Purchase Items
2. Abbreviated Title	Purchase Items
3. Use Case ID	9
4. Actors	Customer

5. Description:-

This facility gives customers the facility of selecting a product and adding them to cart and confirming the order and moving towards payment.

5.1. Pre Conditions:-

Customers should be logged in so that they can add to cart the desired product or can pay for it.

5.2. Task Sequence:-

- 1.Customer have to search for their product.
- If they can see their desired product then they have to add the product in cart or can pay for them.

5.3. Post Conditions:-

- 1. Customer are allowed to add products to the cart.
- 2. They can proceed to payment after adding it to the cart.

1. Use Case Title	Pay
2. Abbreviated Title	Pay
3. Use Case ID	8
4. Actors	Customer

5. Description:-

Using this facility customer can move to checkout and can proceed to payment by selecting one of the payment options.

5.1. Pre Conditions:-

Customer should be logged in and have product in cart for payment.

5.2. Task Sequence:-

- 1.Customer have to select a payment option.
- 2. Now they have to verify their details.
- 3.Confirm their payment.

5.3. Post Conditions:-

- 1.If payment was successful then inform the seller.
- 2.If payment was not successful, inform customer about it and ask them for payment.

1. Use Case Title	View pending orders
2. Abbreviated Title	View pending orders
3. Use Case ID	10
4. Actors	Seller

5. Description:-

This facility provides sellers with the feature of viewing their pending orders that need to be delivered to the respective customers.

5.1. Pre Conditions:-

Seller must be logged in to their dashboard.

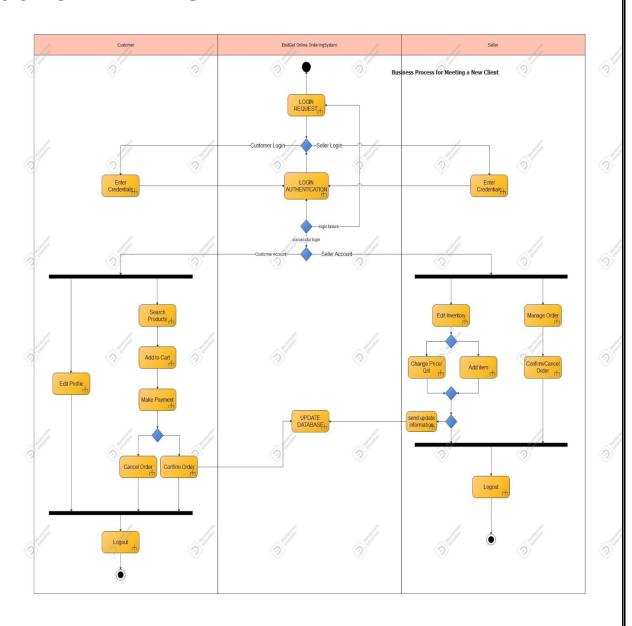
5.2. Task Sequence:-

- 1. Seller will go to their dashboard.
- 2. Then they can see their orders which are pending.

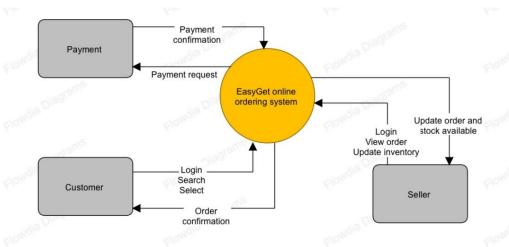
5.3. Post Conditions:-

1. After seeing their pending order if any they have to see their inventory and update it accordingly.

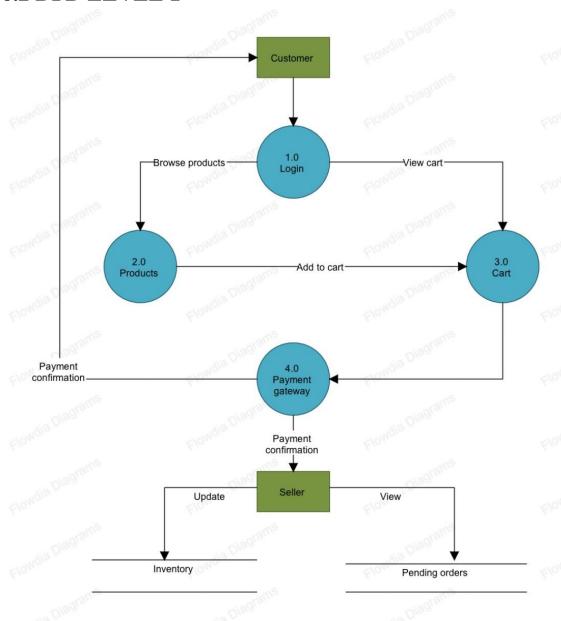
6.3 ACTIVITY DIAGRAM



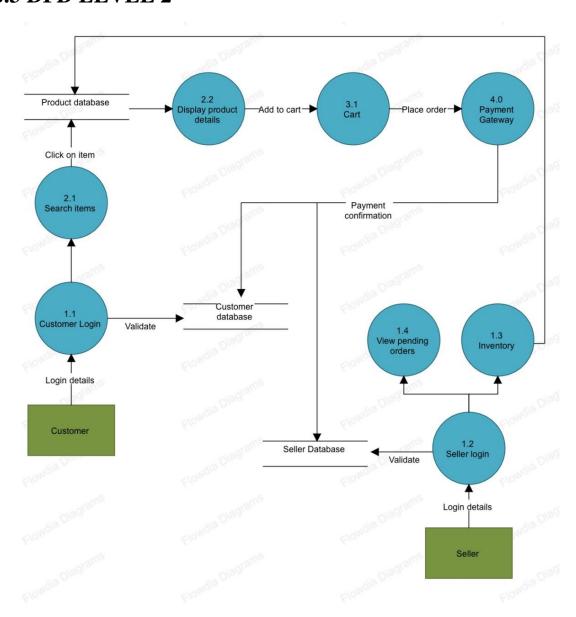
6.1 DFD LEVEL 0



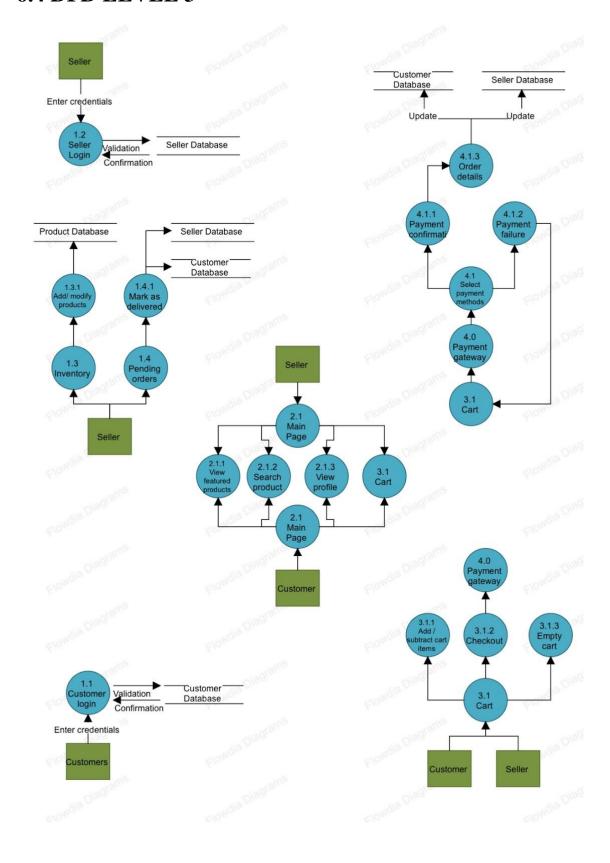
6.2 DFD LEVEL 1



6.3 DFD LEVEL 2

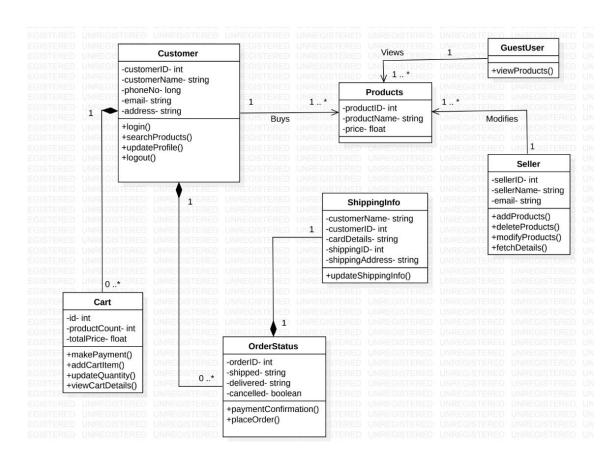


6.4 DFD LEVEL 3



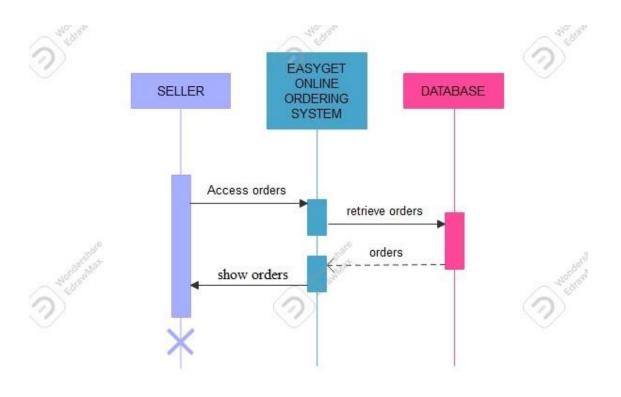
7. DESIGN PHASE

7.1 CLASS DIGRAM

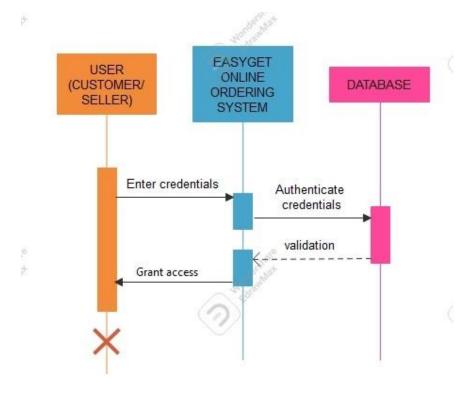


7.2 SEQUNECE DIAGRAM

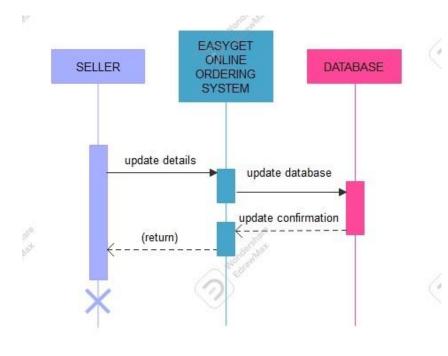
VIEW PENDING ORDERS



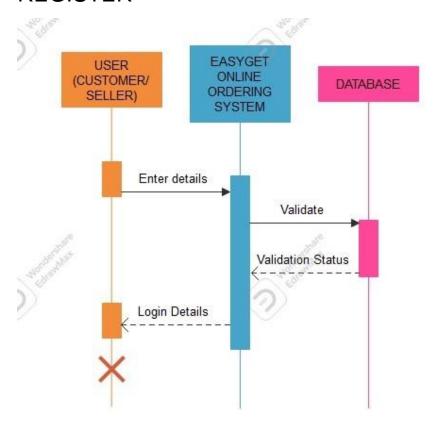
LOGIN



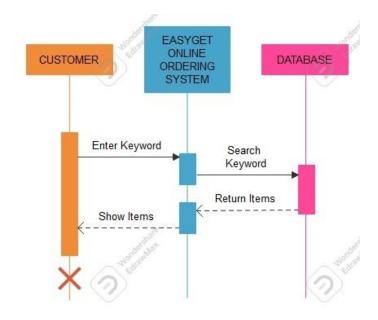
MODIFY INVENTORY



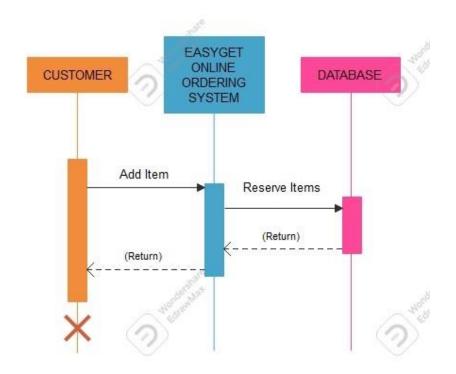
REGISTER



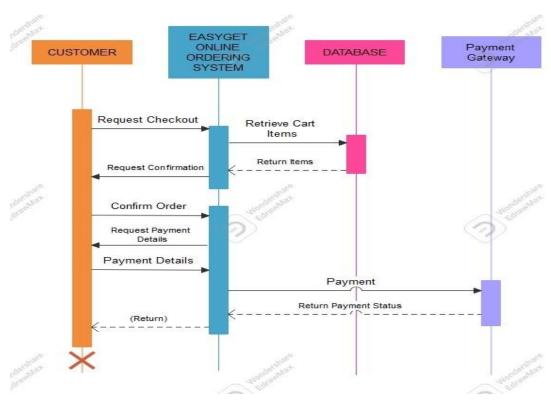
SEARCH



ADD TO CART

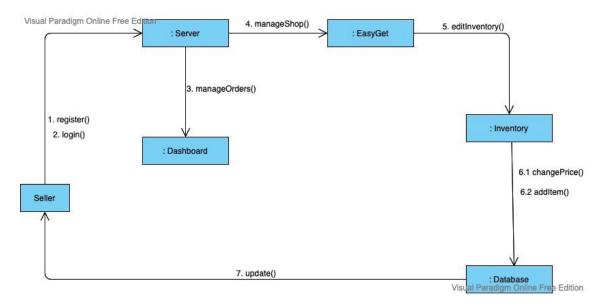


PURCHASE CART ITEMS



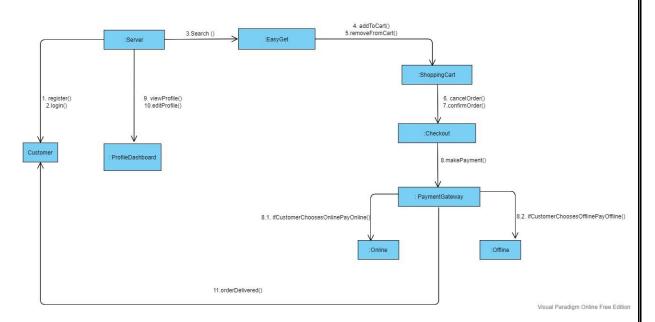
7.3 COLLABORATION DIAGRAM

SELLER



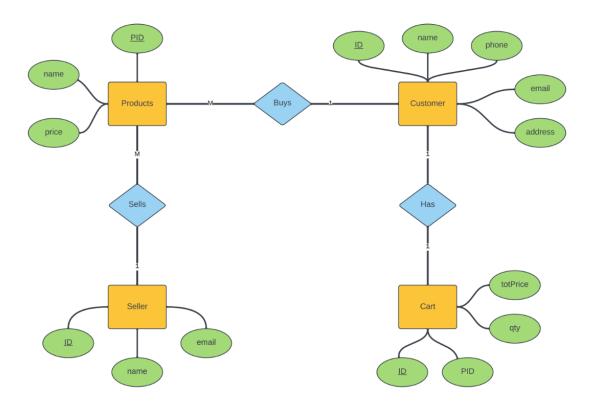
CUSTOMER

Visual Paradigm Online Free Edition Collaboration Diagram (Customer point of view)

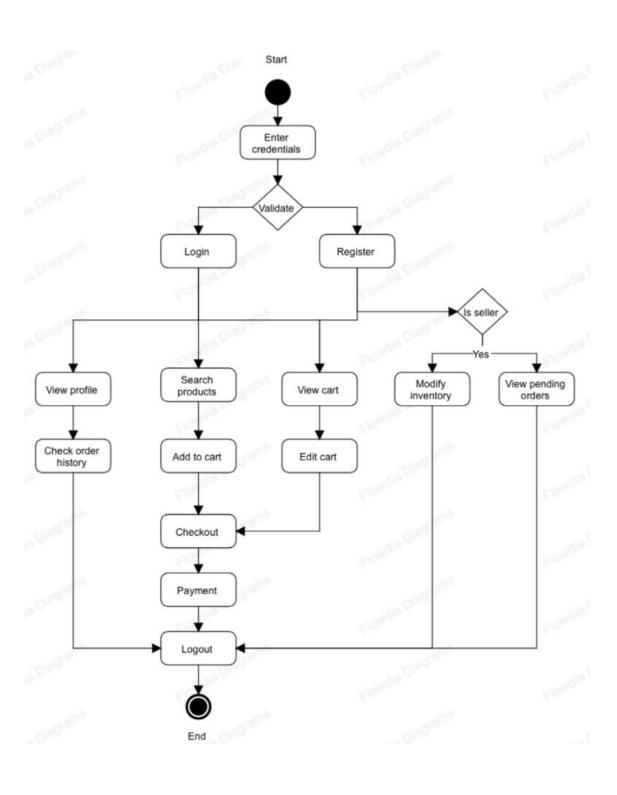


8. DATABASE DIAGRAMS

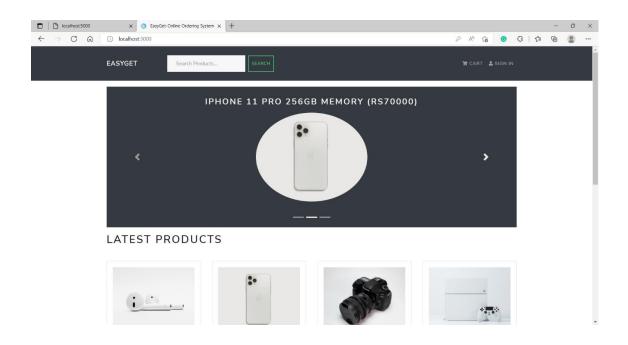
8.1 ER DIAGRAM

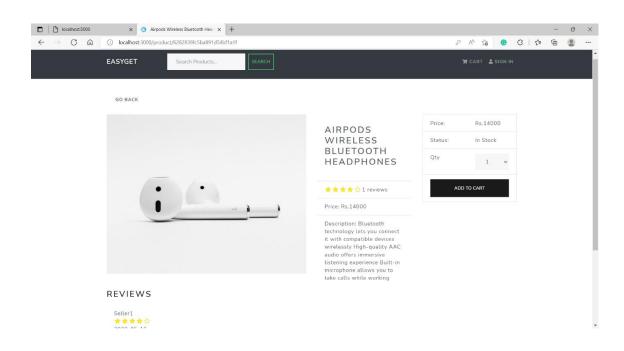


8.2 STATE CHART DIAGRAM



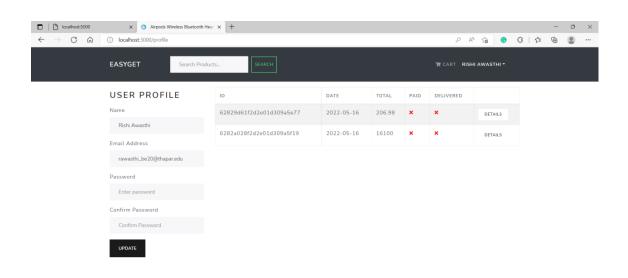
9. IMPLEMENTATION (SCREENSHOTS)



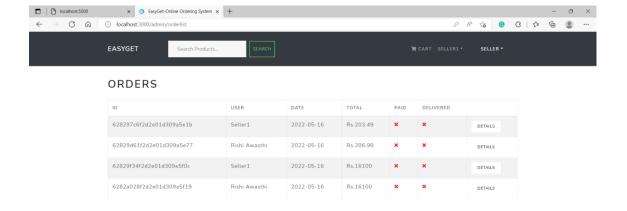




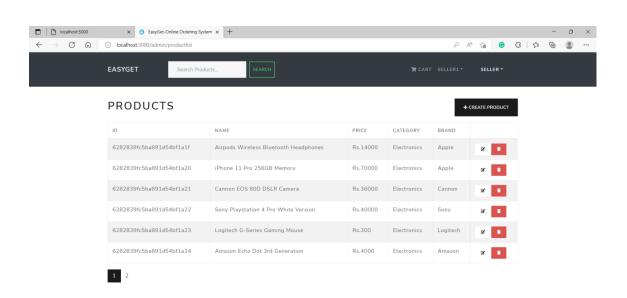
EasyGet 2022



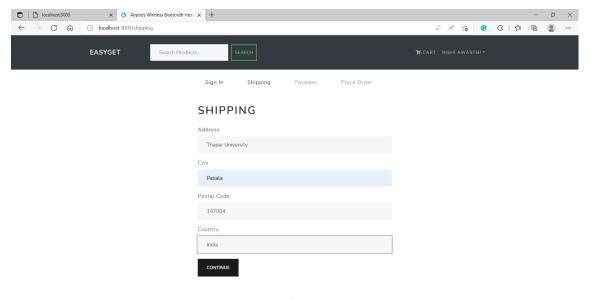
EasyGet 2022



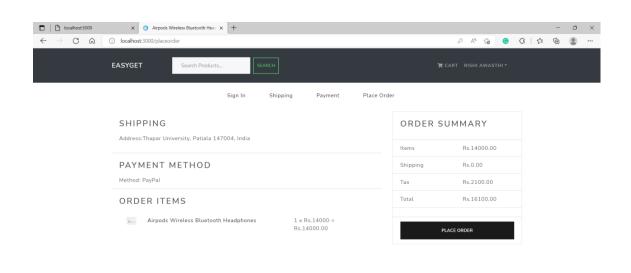
EasyGet 2022



EasyGet 2022



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