



INSTITUTE FOR ADVANCED COMPUTING AND SOFTWARE DEVELOPMENT AKURDI, PUNE

Documentation On

"E-Commerce Website" E-DAC SEPT 2020

Submitted By:

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1. Introduction

Document Purpose

The advancement in Information Technology and internet penetration has greatly enhanced various business processes and communication between Admin/Seller and their customers who are purchasing the products. This E-Commerce Website is developed to provide the following services:

Enhance Business Processes:

To be able to use internet technology to project to the global world instead of limiting their services to their local domain alone, thus increase their return on investment (ROI).

E-Commerce Website:

A tool through which admin can Create a Product and provide many functionalities to them. The admin also receives some set of functionalities which help in managing the webiste.

Problem Statement

Existing system for a Local Shop is based on our traditional way keeping records and details on paper and registers. Access of these details and papers are not granted to common member in absence of the authority. It is hard to manage all the society system with pen and paper. It gets really hard to maintain the records and then keep track of past records. Hence this system is proposed to overcome the flaws of the existing system and giving power to the admin of the website so that he/she will be able to manage the website easily.

Product Scope

This project traverses a lot of areas ranging from business concept to computing field, and required to perform several researches to be able to achieve the project objectives. The area covers include:

- Node JS and React Technologies used for the development of the Web application.
- General customers as well as the Admin/Seller will be able to use the system effectively.
- Web-platform means that the system will be available for access 24/7 except when there is a temporary server issue which is expected to be minimal.

Aims & Objectives

Specific goals are: -

- To produce a web-based system that allow the admin to add new products and provide functionalities to its customers.
- To ease admin to help him in his work to add and track order details efficiently.

Overall Description

Product Perspective:

2.1.1 Existing system function:

Existing system for a society is based on our traditional way keeping records and details on paper and registers. Access of these details and papers are not granted to common member in absence of the authority. For voting for various designations (secretary, treasurer, chairman, etc) in society members need to be present on site for voting. Due to some unavoidable reasons some members cannot cast vote. Proposed system has a facility for voting online which will provide anytime anywhere access.

• III. PROPOSED SYSTEM

Product functionality:

E-Commerce Website provides the features for admin, seller and customer. It includes several functionalities describes as below:

Admin:

It provides facility to add, update, delete and view the order details who are purchasing a particular product in the website. We can view their details and also update it if that particular

Any product is sold to any new customer but it he ordered any product from one buyer then for his second order he have choose the product of same seller.

Benefits of E-Commerce Website

- This E-commerce website is fully functional and flexible.
- It is very easy to use.
- This E-Commerce Website helps in back office administration by streamlining and standardizing the procedures.
- It saves a lot of time, money and labour.
- Eco-friendly: The monitoring of the Website and the overall business becomes easy and includes the least of paper work.
- The application acts as an office that is open 24/7.

- It increases the efficiency of the management at offering quality services to the customers.
- It provides custom features development and support with the application.

Users and Characteristics:

Admin/Seller:

- Admin can login to the system.
- View the list of all users in the website.
- View the list of all the products in the website
- View the list of all orders placed from the website
- Add new Product.
- Delete new/existing product.
- Update new/existing product.
- View order details of end user.

End Users:

- USers can login to the system.
- View his/her personal details.
- View order.
- Buy Product.
- Update their personal credentials.

Operating Environment:

Server Side:

Processor: Intel® I3 processor 3500 series

HDD: Minimum 500GB Disk Space

RAM: Minimum 2GB

OS: Windows 10, Linux

Database: MongoDB

Client Side (minimum requirement):

Processor: Intel Dual Core

HDD: Minimum 80GB Disk Space

RAM: Minimum 1GB **OS:** Windows 7, Linux

Design and Implementation Constraints:

- The application will use Html, JavaScript, jQuery and css as main web technologies.
- Several types of validations make this web application a secured one and unauthorised Injections can also be prevented.
- Since E-Commerce Website is a web-based application, internet connection must be established.
- The E-Commerce Website will be used on PCs and will function via internet or intranet in any web browser.

Specific Requirement

External Interface Requirements:

User Interfaces:

- All the users will see the same page when they enter in this website. This page will display few products.
- After being authenticated by correct username and password, user will be redirect to their corresponding profile where they can do various activities.
- The user interface will be simple and consistence, using terminology commonly understood by intended users of the system. The system will have simple interface, consistence with standard interface, to eliminate need for user training of infrequent users.

Hardware Interfaces:

- No extra hardware interfaces are needed.
- The system will use the standard hardware and data communication resources.
- This includes, but not limited to, general network connection at the server/hosting site, network server and network management tools.

Application Interfaces:

OS: Windows 7, Linux

Web Browser:

The system is a web-based application; clients need a modern web browser such as Mozilla Firebox, Internet Explorer, Opera, and Chrome. The computer must have an Internet connection in order to be able to access the system.

Communications Interfaces:

- This system uses communication resources which includes but not limited to, HTTP protocol for communication with the web browser and web server and TCP/IP network protocol with HTTP protocol.
- This application will communicate with the database that holds all the user, product and orders information. Users can contact with server side through HTTP protocol by means of a function that is called HTTP Service. This function allows the application to use the data retrieved by server to fulfil the request fired by the user.

System Design

Activity Diagram

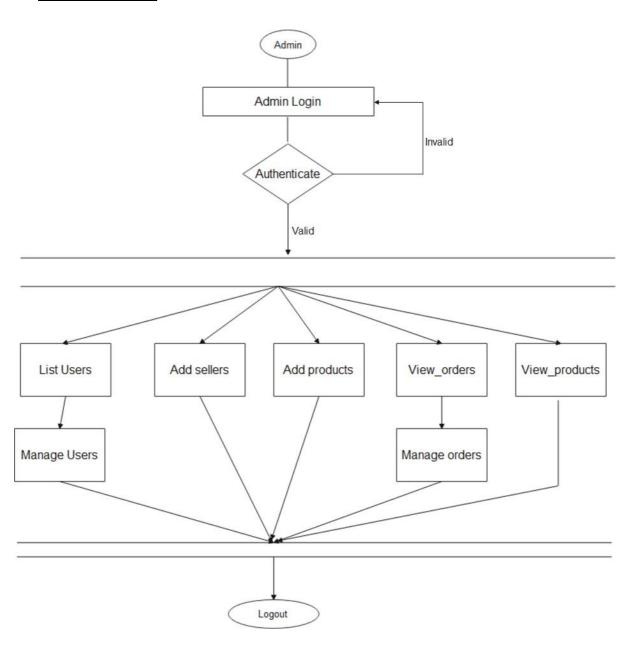


Figure 1: Admin Activity Diagram

IACSD

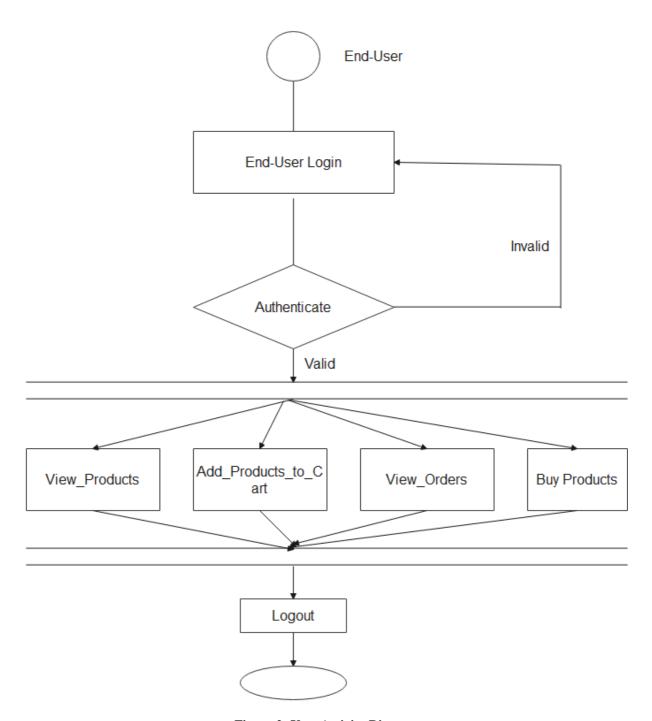


Figure 2: User Activity Diagram

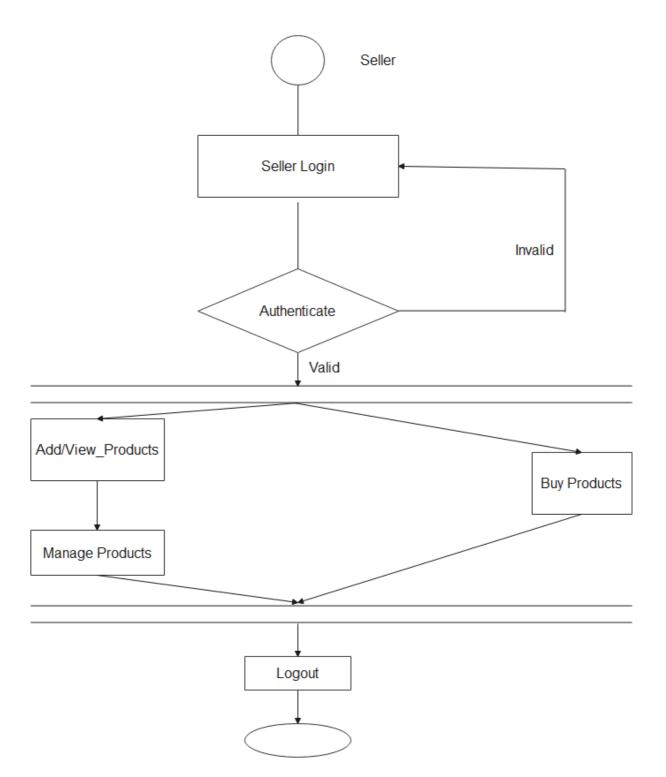
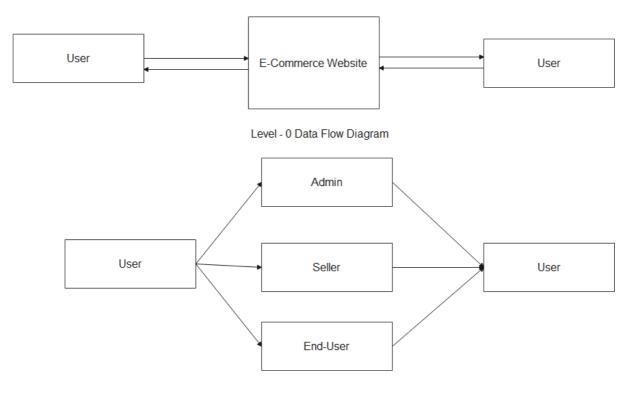


Figure 3: Seller Activity Diagram

Data Flow Diagram



Level - 1 Data Flow Diagram

Figure 4: Level 0 Data Flow Diagram Figure 5: Level 1 Data Flow Diagram

IACSD



Figure 6: Level 2 Data Flow Diagram for Admin

Use Case Diagram

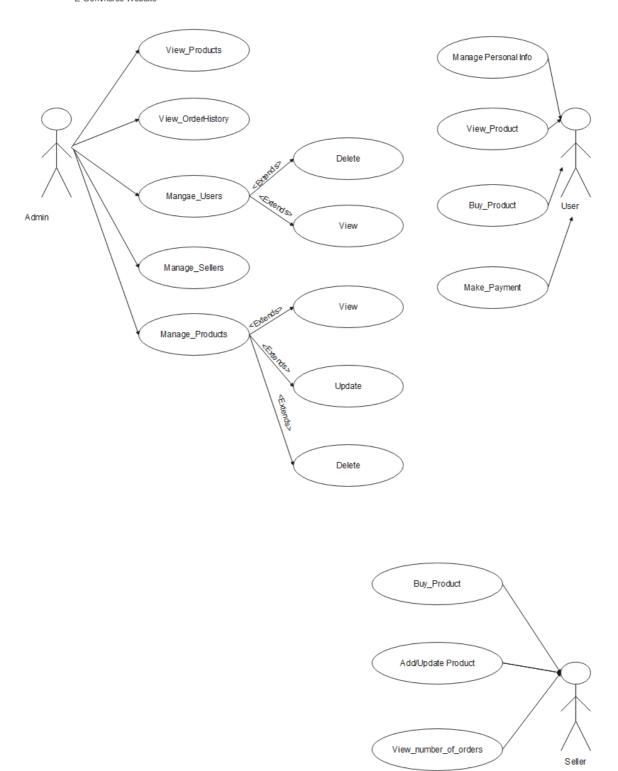


Figure 7: Use Case Diagram

ER Diagram

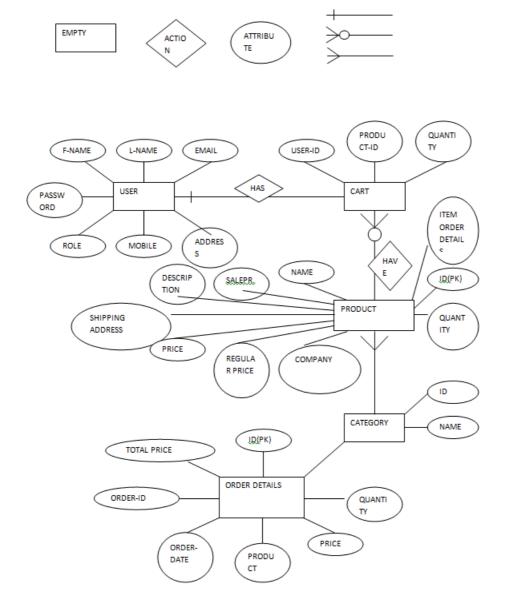


Figure 8 Use Case Diagram

Class Diagram:-

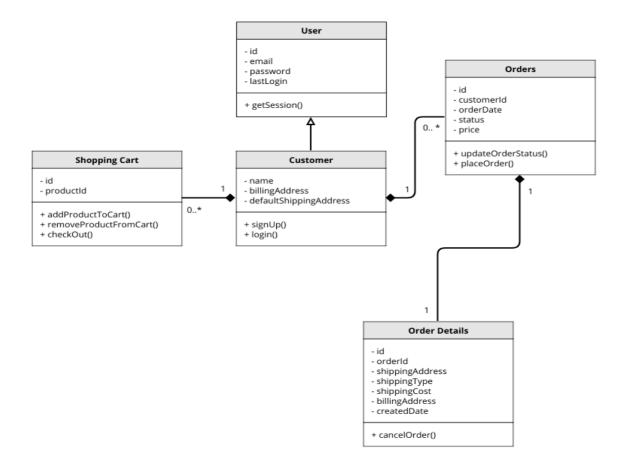


Table Structure

Products:

```
f
  name: { type: String, required: true, unique: true },
  seller: {
    type: mongoose.Schema.Types.ObjectID,
    ref: 'User' },
  image: { type: String, required: true },
  brand: { type: String, required: true },
  category: { type: String, required: true },
  description: { type: String, required: true },
  price: { type: Number, required: true },
  countInStock: { type: Number, required: true },
  rating: { type: Number, required: true },
  numReviews: { type: Number, required: true },
  reviews: [reviewSchema],
},
{
  timestamps: true,
```

End-Users:

```
{
  name: { type: String, required: true },
  email: { type: String, required: true, unique: true },
  password: { type: String, required: true },
  isAdmin: { type: Boolean, default: false, required: true },
  isSeller: { type: Boolean, default: false, required: true },
  seller: {
    name: String,
    logo: String,
    description: String,
    rating: { type: Number, default: 0, required: true },
    numReviews: { type: Number, default: 0, required: true },
  },
},
{
  timestamps: true,
}
```

IACSD Orders:

```
{
    name: { type: String, required: true },
```

```
qty: { type: Number, required: true },
      image: { type: String, required: true },
      price: { type: Number, required: true },
      product: {
        type: mongoose.Schema.Types.ObjectId,
        ref: 'Product',
        required: true,
      },
    },
  shippingAddress: {
    fullName: { type: String, required: true },
    address: { type: String, required: true },
    city: { type: String, required: true },
   postalCode: { type: String, required: true },
    country: { type: String, required: true },
  },
  paymentMethod: { type: String, required: true },
  paymentResult: {
   id: String,
   status: String,
   update time: String,
    email_address: String,
  itemsPrice: { type: Number, required: true },
  shippingPrice: { type: Number, required: true },
  taxPrice: { type: Number, required: true },
  totalPrice: { type: Number, required: true },
  user: { type: mongoose.Schema.Types.ObjectId, ref: 'User', required: true
 seller: {
   type: mongoose.Schema.Types.ObjectId,
    ref: 'User'},
  isPaid: { type: Boolean, default: false },
  paidAt: { type: Date },
  isDelivered: { type: Boolean, default: false },
 deliveredAt: { type: Date },
},
{
  timestamps: true,
```

Conclusion

E-Commerce Website puts forth the actual working of a local shop. Administration, management, payment calculation, seller management, user management, product mangament etc. similar to a shops are the key features of our project. User can access services and functionalities from the website anywhere and anytime for their own comfort.

Future Scope

This project can be enhanced further by adding Discount coupons.. The software is flexible enough to be modified and implemented as per future requirements. We have tried our best to present this free and user–friendly website to our customers as well as sellers. Email alerts for various happenings in the website can be added to the system so that users do not miss the updates and happenings of the website.

7.0 References

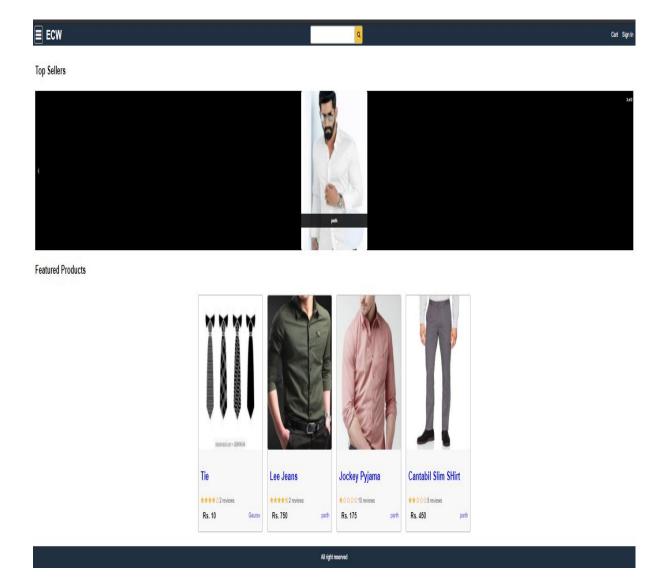
[1] Amazon Website.

ONLINE REFERENCE

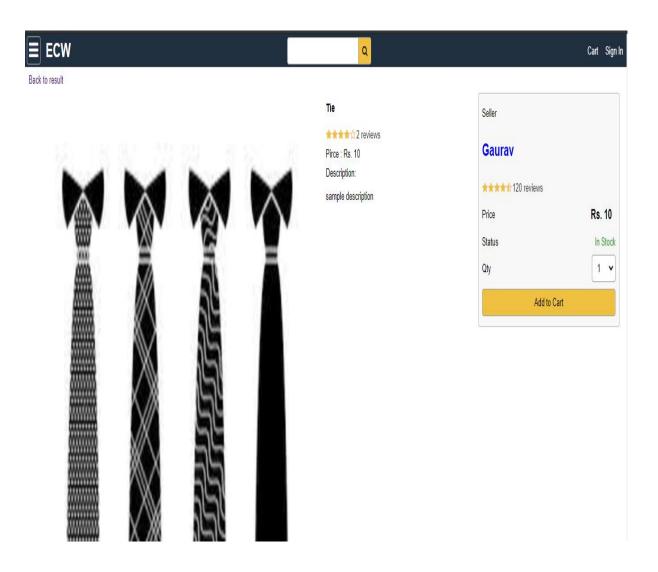
- [2] https://www.youtube.com/watch?v=IXxEdhA7fig
- [3] https://youtu.be/qO4JsQ2VY-M

Screenshots of our Website :-

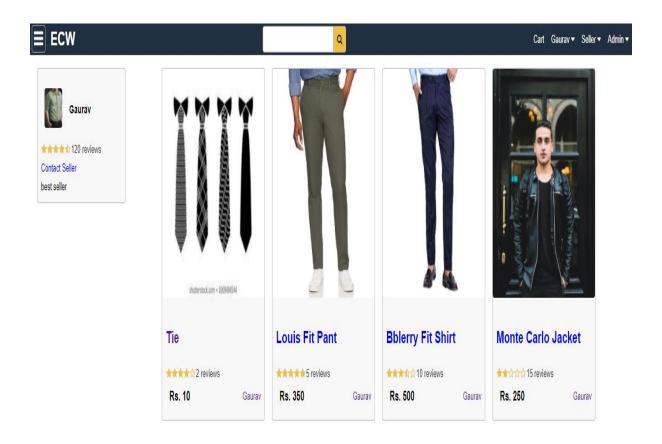
HomeScreen :-



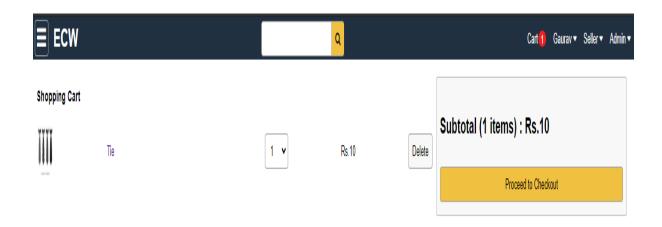
ProductScreen :-



SellerScreen :-



CartScreen :-



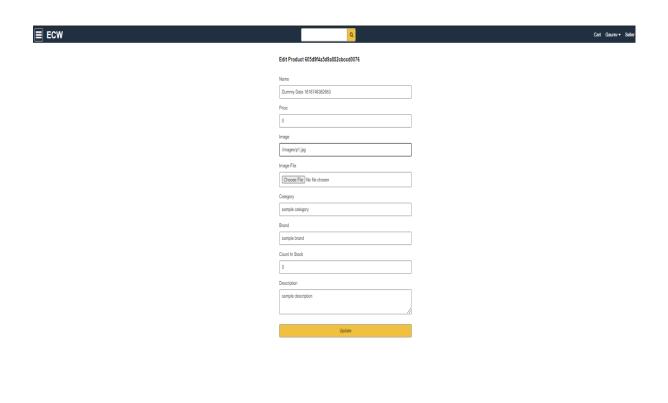
LoginScreen :-

ECW	Q	Cart Sign
	Sign In	
	Email address	
	Enter email	
	Password	
	Enter password	
	Circ. In	
	Sign In	
	New customer? Create your account	

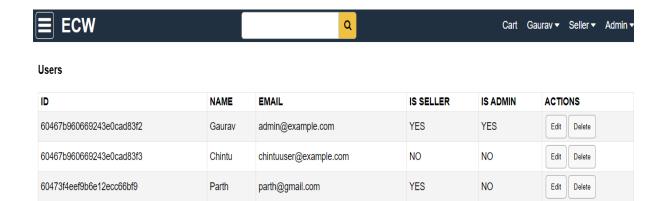
CreateAccountScreen:-

—		
≡ ECW	<u>a</u>	Cart Sign In
	Create Account	
	News	
	Name	
	Enter name	
	Email address	
	Enter email	
	Password	
	Enter password	
	Confirm Password	
	Enter confirm password	
	Register	
	Already have an account? Sign-In	
	All right reserved	

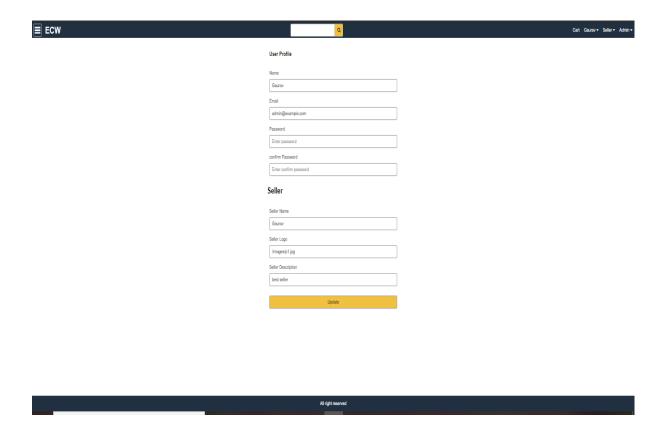
CreateProductScreen:-



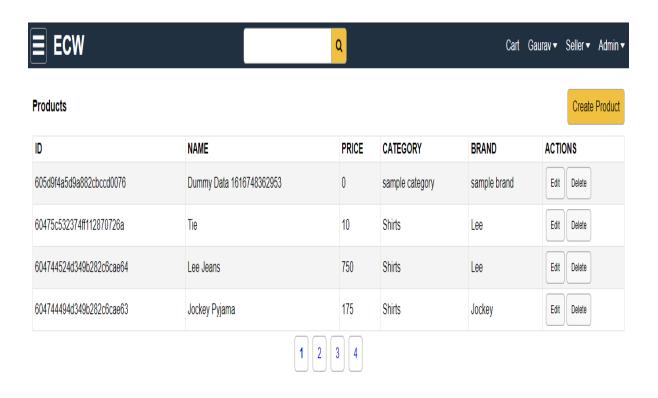
UserListScreen:-



User/SellerProfileScreen:-



AdminProductListScreen:-



EditProductScreen:-

≣ ECW	a	Cart Gaunev • Seller • Admi	'n▼
	Edit Product 605d9f4a5d9a882cbccd0076		
	Name		
	Dummy Data 1616748362953		
	Price		
	0		
	Image		
	/mages/p1.jpg		
	Image File		
	Choose File No file chosen		
	Category		
	sample category		
	Brand		
	sample brand		
	Count In Stock		
	0		
	Description		
	sample description		
	//		
	Update	1	

OrderDetailsScreen:-



OTHER COTTOLING WAS TOO THE COURSE

