



AMITY SCHOOL OF ENGINEERING AND TECHNOLOGY

A Summer Internship report on “Tuck Shop Stationery Management System”

By

Anushka Pendharkar (BCSE1629)

Ch. Jyothi (BCSE1630)

Harshita Ola (BCSE1631)

Kanksha Dhakate(BCSE1632)

Subhalaxmi Gogoi (BCSE1636)

Under the Guidance of

Mr. Pranav More

**Department of Computer Science and Engineering
Amity School of Engineering and Technology
Amity University Mumbai**

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CERTIFICATE

This is to certify that the project entitled
“Tuck Shop Stationery Management System”

Submitted by

| | |
|-------------------------------|-------------------|
| Ms. Anushka Pendharkar | (BCSE1629) |
| Ms. CH Jyothi | (BCSE1630) |
| Ms. Harshita Ola | (BCSE1631) |
| Ms. Kanksha Dhakate | (BCSE1632) |
| Ms. Subhalaxmi Gogoi | (BCSE1636) |

is a bonafide work carried out by them under the supervision of Prof. Pranav More it is approved for the partial fulfilment of the requirement of Amity University Mumbai for Bachelor Degree of Computer Science and Engineering (CSE).

This project report has not been earlier submitted to any other Institute or University for the award of any degree or diploma.

(_____)
Internal Guide

Mr. Pranav More
Internship Coordinator

Ms. Sushila Ratre
Department Coordinator

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Anushka Pendharkar (BCSE1629)

CH. Jyothi (BCSE1630)

Harshita Ola (BCSE1631)

Kanksha Dhakate(BCSE1632)

Subhalaxmi Gogoi (BCSE1636)

[B.Tech CSE]

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CHAPTER 1

INTRODUCTION

Today everything has changed with the technology growing so vast and fast. The long queues are making sure attempts to vanish as much as they can and from as many places as possible. As we see around, the internet has made it possible. Online ticket booking systems, online shopping applications, online food ordering, caters what one wants right at their doorstep, forcing us to think on the similar tracks and hence for our University, we come have come up with this project.

The aim of our project was to propose an online system which can help the students and faculty members to order stationery items online from anywhere in the campus as long as they have internet connectivity. The system ensures that the placed order of our customers is delivered as soon as possible to the demanded destination.

The system does not require customers to always have their credit/debit cards with them. They are free to make the payment on delivery when they are satisfied with delivered order, not requiring them to stress themselves and their precious time by waiting in long queues of the Tuck Shop.

CHAPTER 2

SYSTEM ARCHITECTURE

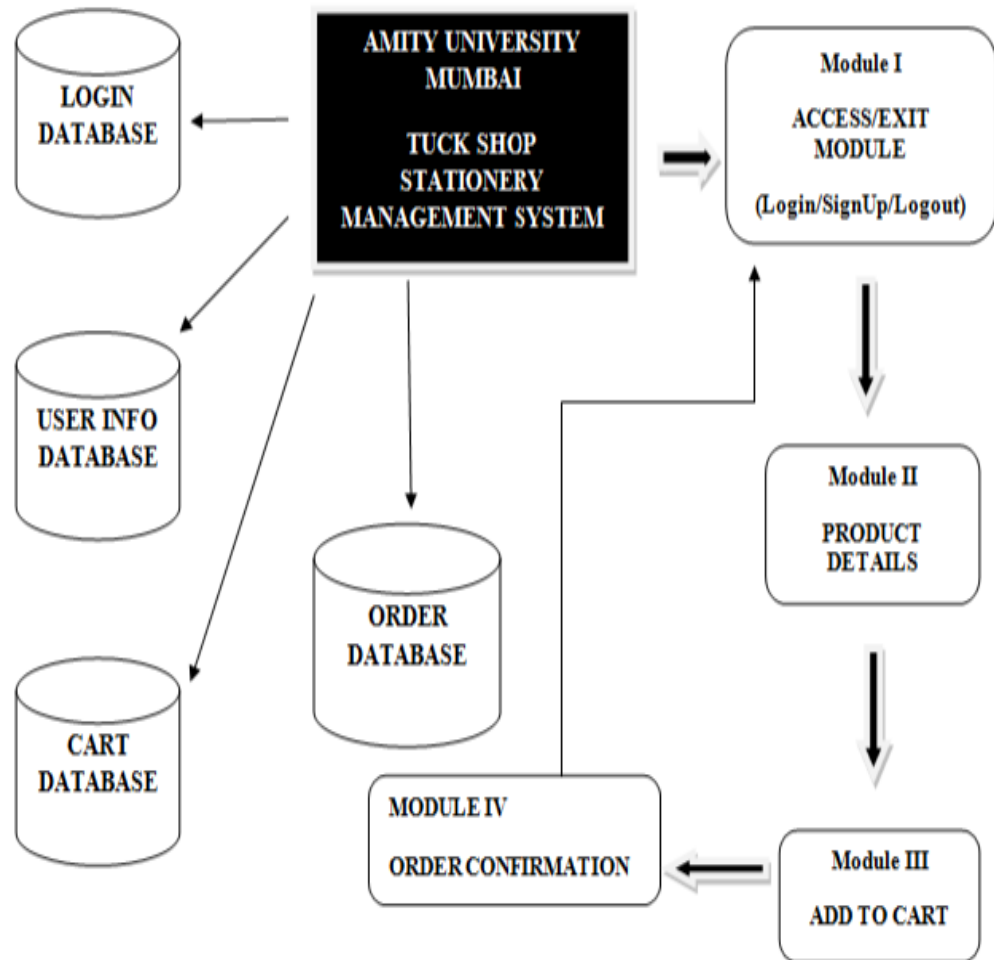


Fig. 2.1

a. Module I: Access/ Exit Module

This module helps in accessing the application by asking the guest to register, customer to login and Logout once they are done viewing/shopping on the application.

- For Sign Up, it requires the details such as Password, Name, Email Address and Contact Number. The details are stored in the USER INFO DATABASE.

- The module requires customer's Username and Password for Login Process. The details are stored in LOGIN DATABASE.
-
- b. Module II: Product Details
This module includes home page where the customer can view products, select the category of interest and select the product details such as quantity and brand name and add them to cart.
 - c. Module III: Add to Cart
This module carries the items along with their details selected by the customer and giving an option to confirm the order, which leads to Order Confirmation Module. The details of the cart items are stored in the CART DATABASE.
 - d. Module IV: Order Confirmation Module
The module takes care of the OrderID generation and displaying it to the customer along with the registered details of the customer such as mobile number and Name. The confirmed order is stored in ORDER DATABASE.

CHAPTER 3

3.1 FUNCTIONAL & NON-FUNCTIONAL REQUIREMENTS

Functional Requirements

- a. User and Admin can login and logout through the access module.
- b. User can access the Cart Module.
- c. User is allowed to edit his cart as per his choices.
- d. Admin is allowed to remove or edit the products.
- e. Admin is able to remove the non-conforming customers.
- f. User is able to select and edit the quantity of the order items.

Non-Functional Requirements

The software is still not deployed and hence has not undergone the performance test.

3.2 HARDWARE & SOFTWARE REQUIREMENTS

Hardware Requirements (Developer's End)

- Windows Operating System
- 2GB OR More RAM
- 200 MB OR More Space
- NIC Card

Hardware Requirements (User's End)

- Any operating system with internet and browser

Software Requirements

- a. MySQL Workbench
- b. Eclipse Mars
- c. Apache Tomcat Server
- d. OS Windows

CHAPTER 4

UML DIAGRAMS

A. Class Diagram

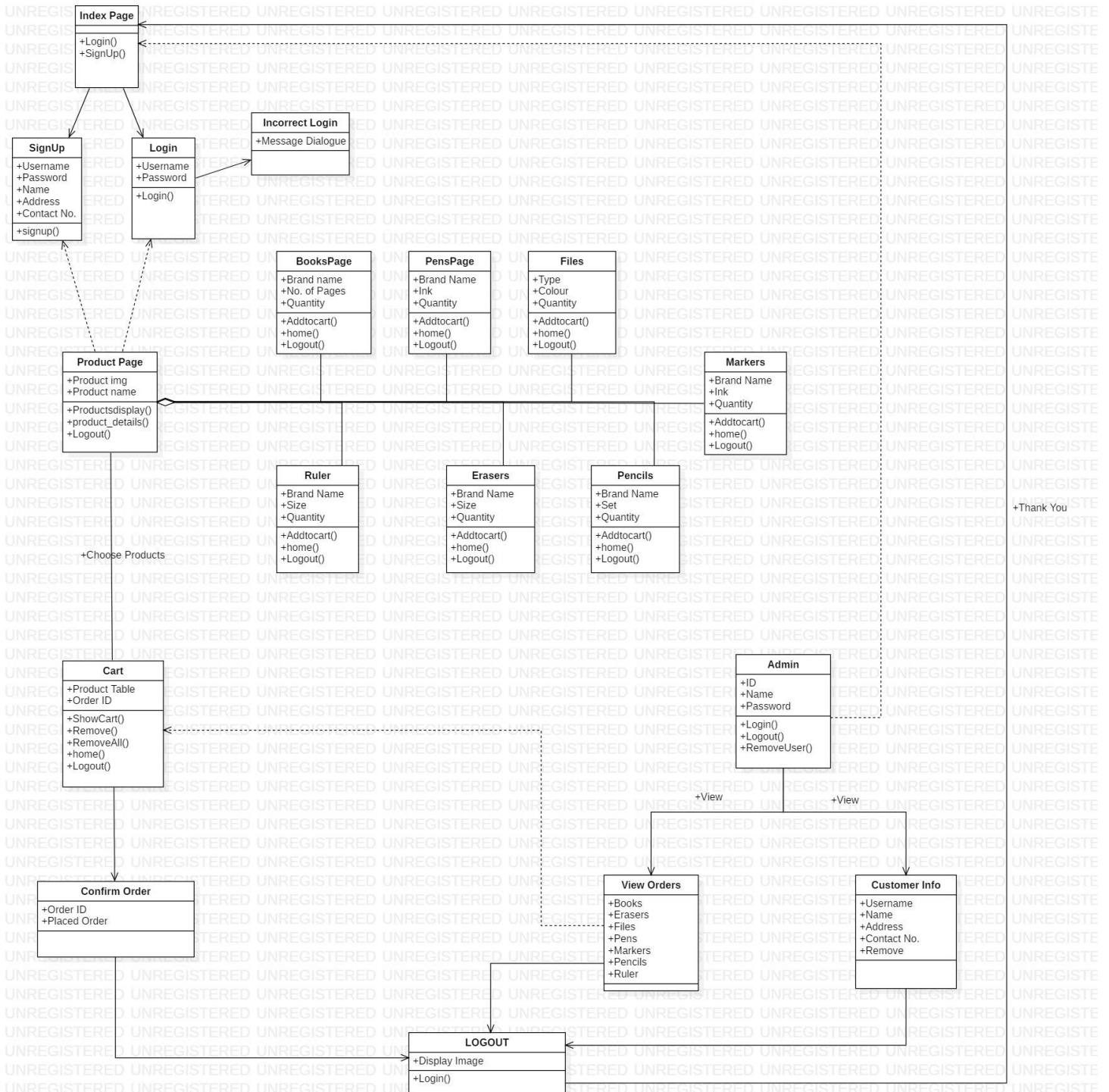


Fig 4.1

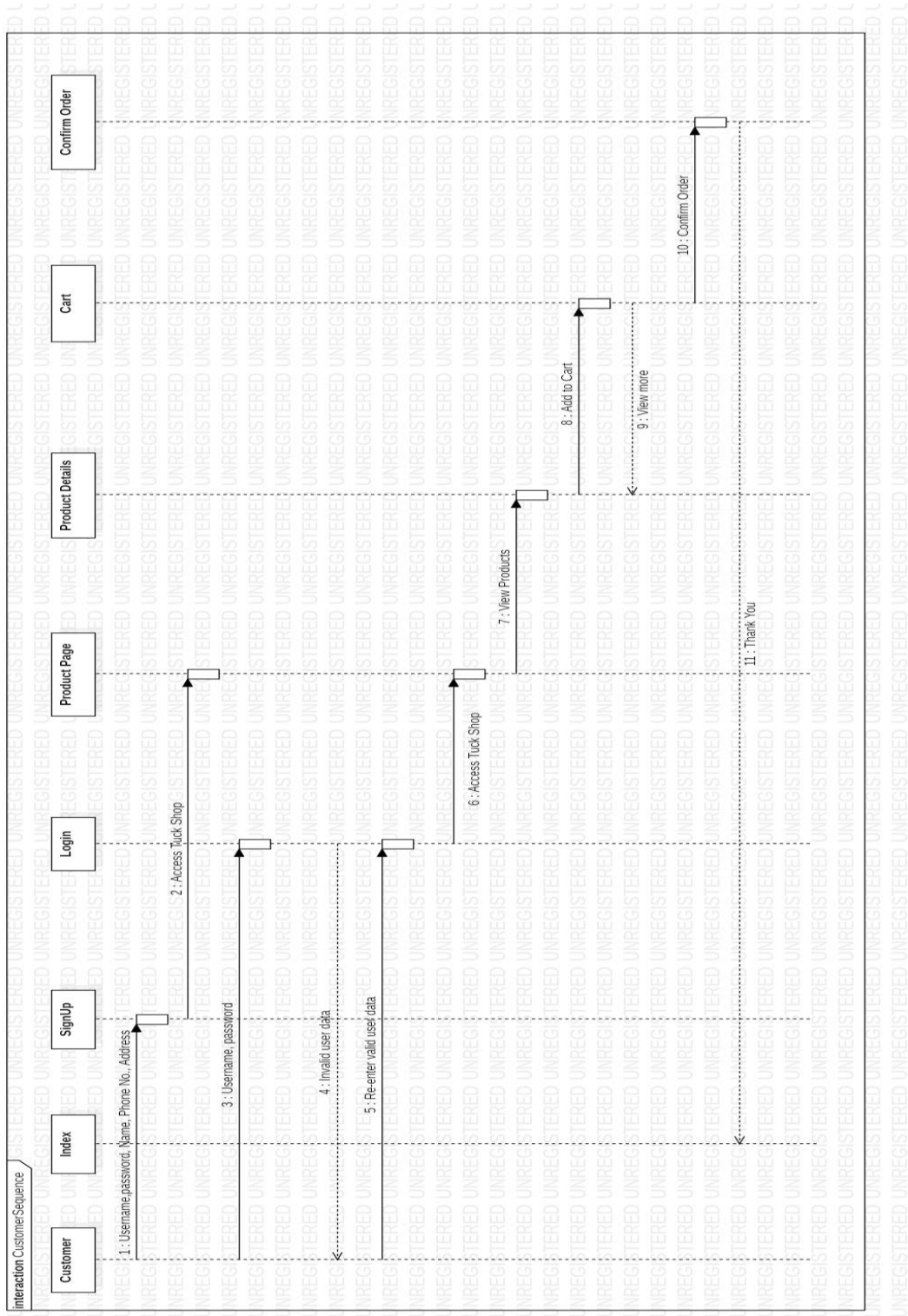
B. Use Case

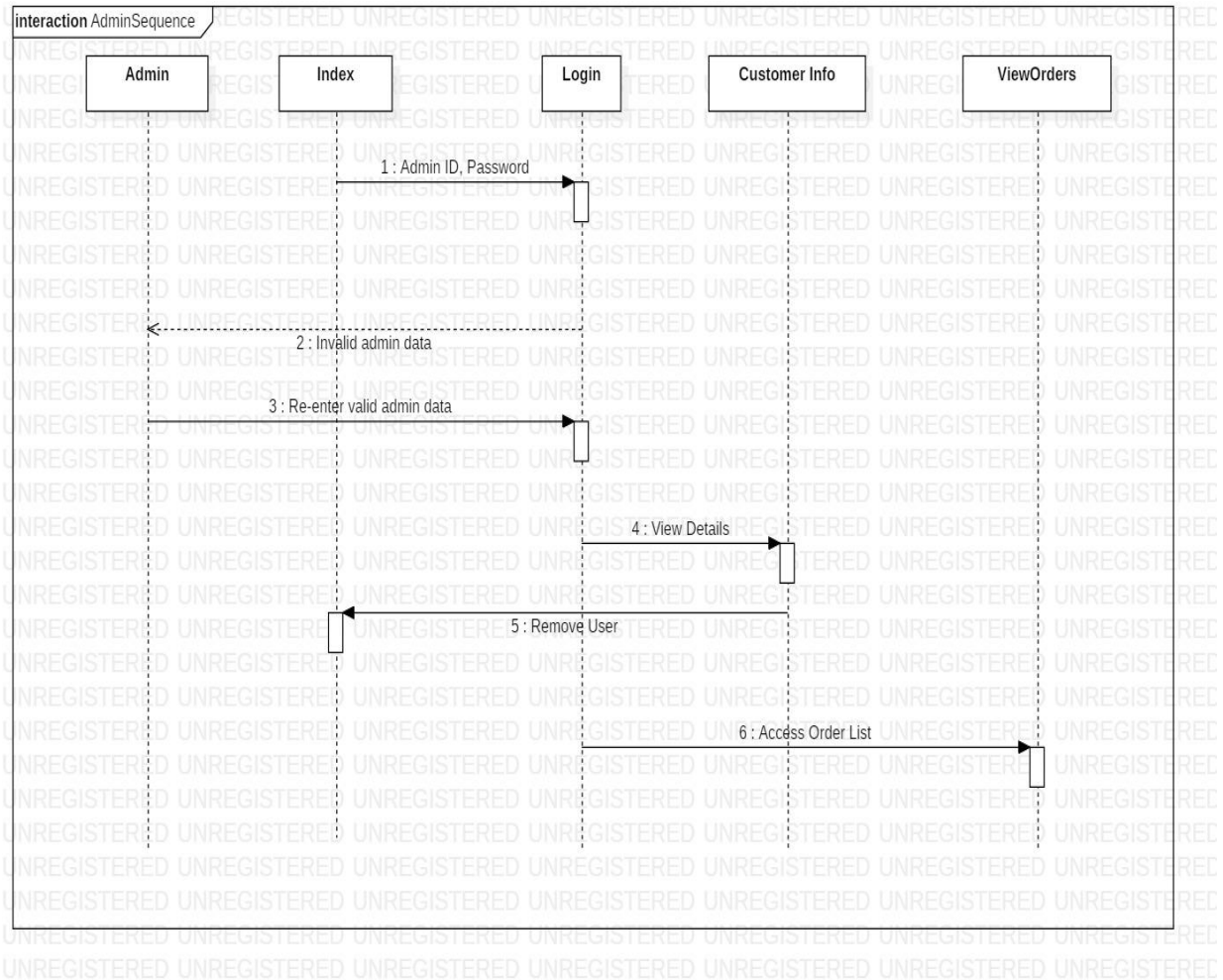


Fig. 4.2

C. Sequence Diagram

Customer Sequence Diagram



*Fig. 4.3(i)***Admin Sequence Diagram***Fig. 4.3(ii)*

D. Activity Diagram

Customer Activity Diagram

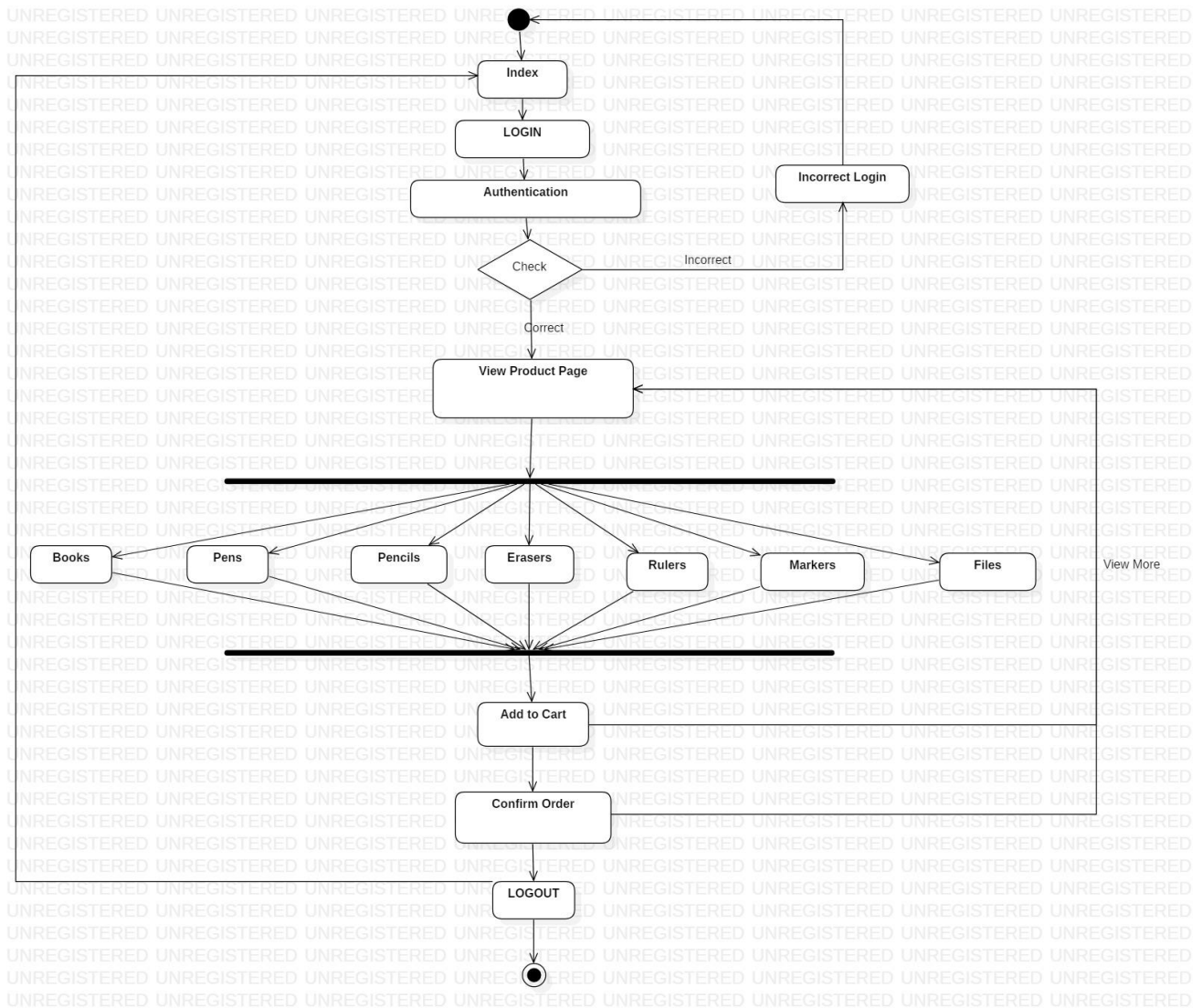
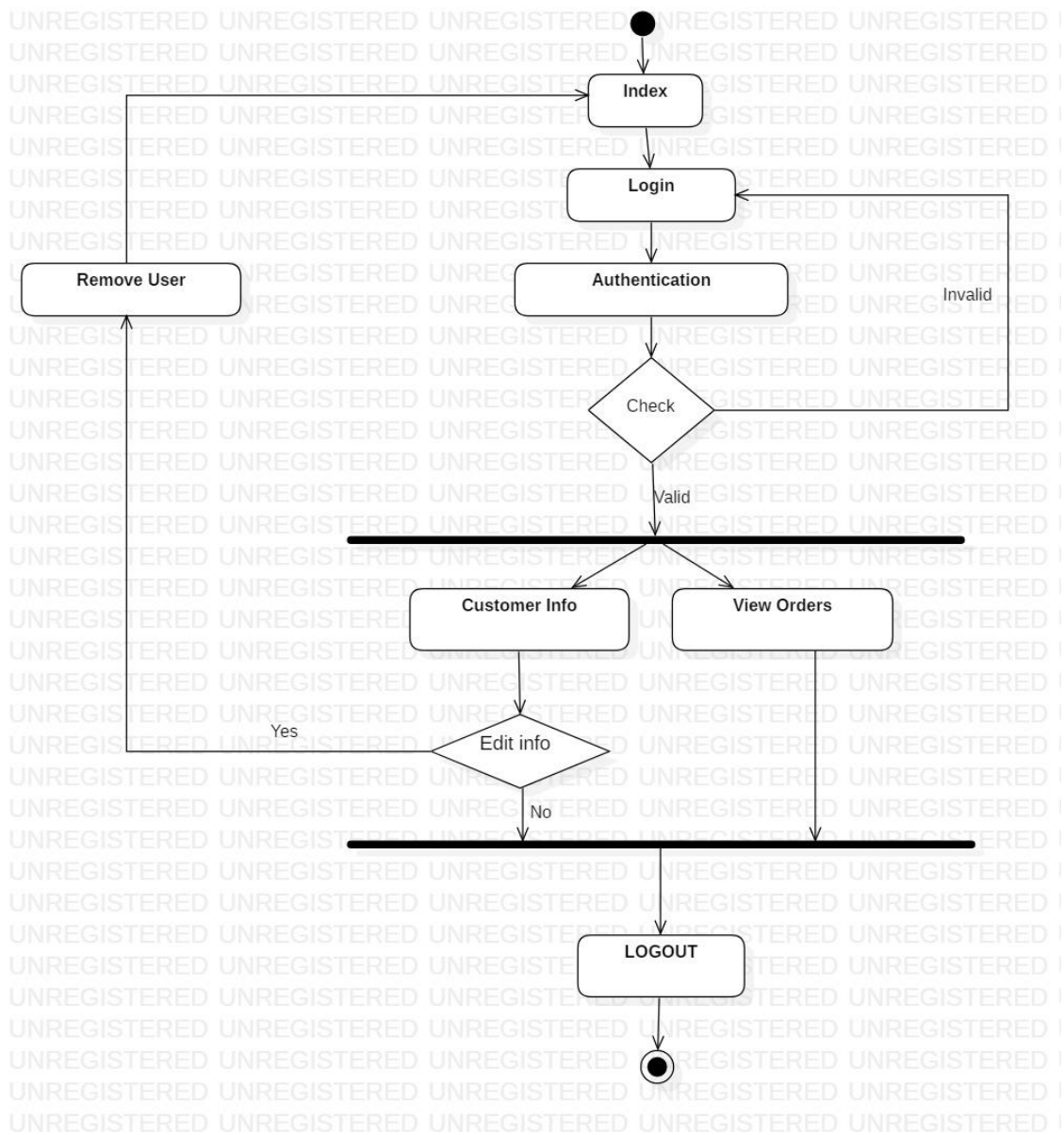


Fig. 4.4(i)

Admin Activity Diagram*Fig. 4.4(ii)*

E. State Transition Diagram

Customer State Transition Diagram

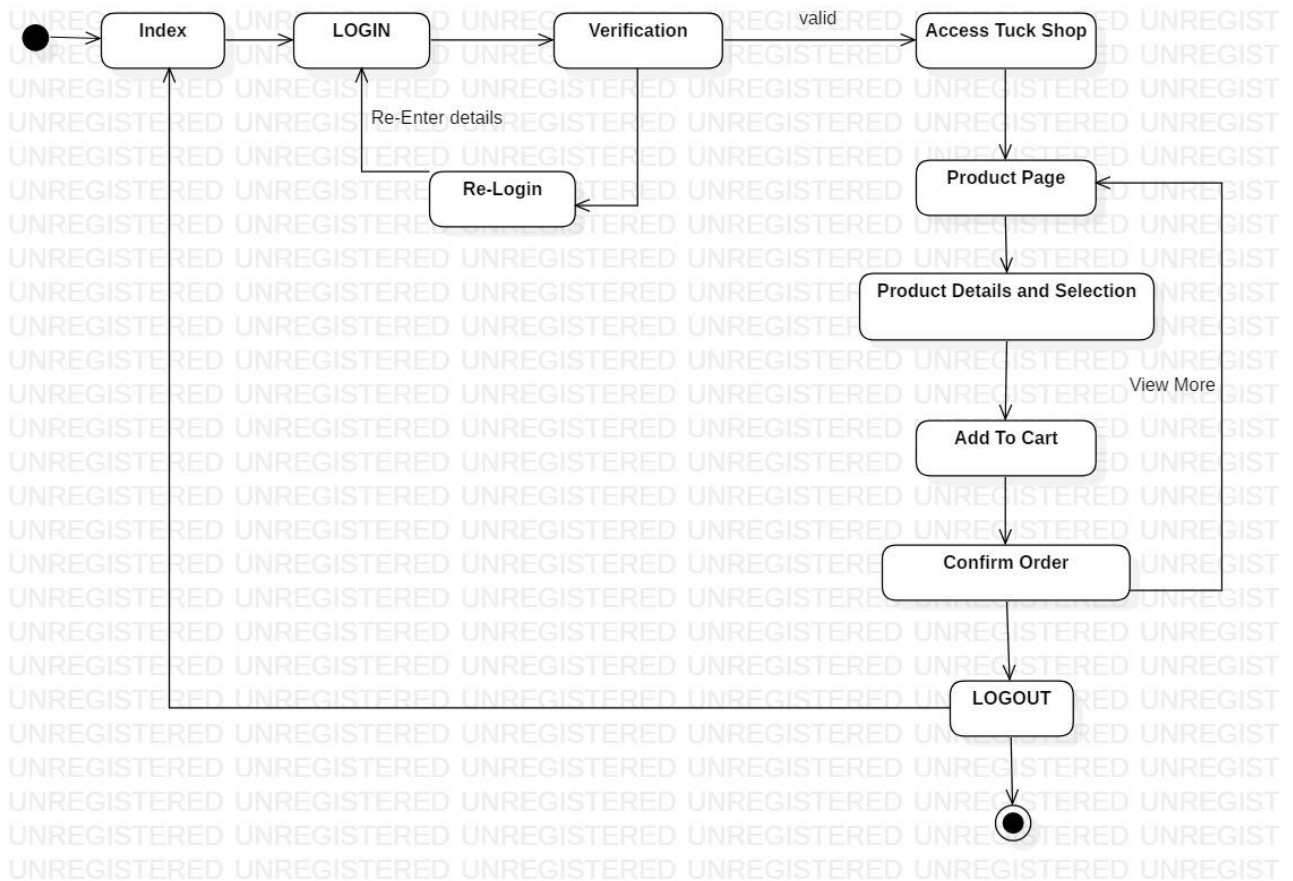


Fig. 4.5(i)

Admin State Transition Diagram

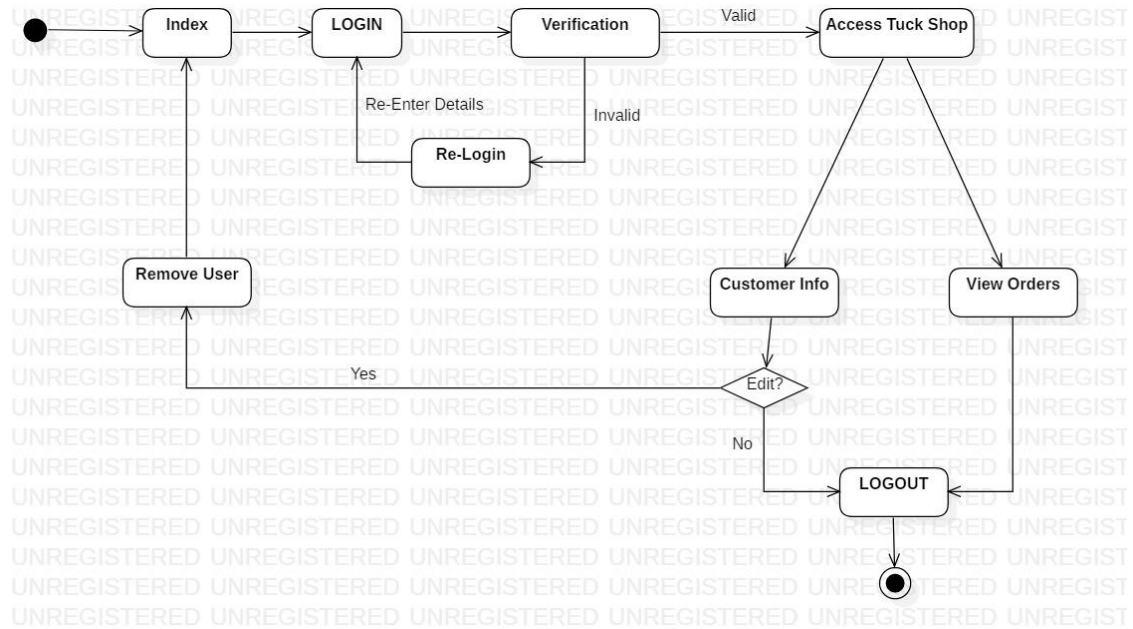


Fig. 4.5(ii)

CHAPTER 5

DATABASE SCHEMAS

Cart Schema

| Column | Type | Nullable | Indexes |
|---------|--------------|----------|---------|
| Objects | varchar(255) | NO | PRIMARY |
| QTY | varchar(45) | YES | |
| TP | varchar(45) | YES | |

Fig. 5.1

Query Fired :

```
CREATE TABLE `cart` (  
  `Objects` varchar(255) NOT NULL,  
  `QTY` varchar(45) DEFAULT NULL,  
  `TP` varchar(45) DEFAULT NULL,  
  PRIMARY KEY (`Objects`)  
);
```

User Information Schema

| Columns in table | | | |
|------------------|--------------|----------|---------|
| Column | Type | Nullable | Indexes |
| Username | varchar(255) | NO | PRIMARY |
| Password | varchar(45) | NO | |
| Name | varchar(45) | NO | |
| Contact | varchar(15) | NO | |
| Address | varchar(45) | NO | |
| val | int(10) | NO | |

Fig. 5.2

Query Fired:

```
CREATE TABLE `userinfo` (
  `Username` varchar(255) NOT NULL,
  `Password` varchar(45) NOT NULL,
  `Name` varchar(45) NOT NULL,
  `Contact` varchar(15) NOT NULL,
  `Address` varchar(45) NOT NULL,
  `val` int(10) NOT NULL DEFAULT '0',
  PRIMARY KEY (`Username`)
);
```

Login Schema

| Columns in table | | | |
|------------------|--------------|----------|---------|
| Column | Type | Nullable | Indexes |
| ◇ Username | varchar(255) | NO | PRIMARY |
| ◇ Password | varchar(45) | YES | |

Fig. 5.3

Query Fired:

```
CREATE TABLE `login` (  
  `Username` varchar(255) NOT NULL,  
  `Password` varchar(45) DEFAULT NULL,  
  PRIMARY KEY (`Username`)  
);
```

Order Schema

| Columns in table | | | |
|------------------|--------------|----------|---------|
| Column | Type | Nullable | Indexes |
| Username | varchar(255) | NO | |
| OrderId | varchar(45) | NO | PRIMARY |
| books50 | varchar(45) | YES | |
| books100 | varchar(45) | YES | |
| books200 | varchar(45) | YES | |
| bookcm50 | varchar(45) | YES | |
| bookcm100 | varchar(45) | YES | |
| bookcm200 | varchar(45) | YES | |
| bookc50 | varchar(45) | YES | |
| bookc100 | varchar(45) | YES | |
| bookc200 | varchar(45) | YES | |
| penpgblue | varchar(45) | YES | |
| penpgblack | varchar(45) | YES | |
| penpgred | varchar(45) | YES | |
| penpbblue | varchar(45) | YES | |

Fig. 5.4(i)

| Columns in table | | | |
|------------------|-------------|----------|---------|
| Column | Type | Nullable | Indexes |
| penpbblack | varchar(45) | YES | |
| penpbred | varchar(45) | YES | |
| penlgblue | varchar(45) | YES | |
| penlgblack | varchar(45) | YES | |
| penlgred | varchar(45) | YES | |
| penlbblue | varchar(45) | YES | |
| penlbblack | varchar(45) | YES | |
| penlbred | varchar(45) | YES | |
| pencgblue | varchar(45) | YES | |
| pencgblack | varchar(45) | YES | |
| pencgred | varchar(45) | YES | |
| pencbblue | varchar(45) | YES | |
| pencbblack | varchar(45) | YES | |
| pencbred | varchar(45) | YES | |
| filestb | varchar(45) | YES | |

Fig. 5.4(ii)

| Columns in table | | | |
|------------------|-------------|----------|---------|
| Column | Type | Nullable | Indexes |
| ◇ filestb | varchar(45) | YES | |
| ◇ filesty | varchar(45) | YES | |
| ◇ filestr | varchar(45) | YES | |
| ◇ filepb | varchar(45) | YES | |
| ◇ filepy | varchar(45) | YES | |
| ◇ filepr | varchar(45) | YES | |
| ◇ filebxb | varchar(45) | YES | |
| ◇ filebxy | varchar(45) | YES | |
| ◇ filebxr | varchar(45) | YES | |
| ◇ markerfb | varchar(45) | YES | |
| ◇ markerfbl | varchar(45) | YES | |
| ◇ markerfr | varchar(45) | YES | |
| ◇ markerclb | varchar(45) | YES | |
| ◇ markerclbl | varchar(45) | YES | |
| ◇ markerclr | varchar(45) | YES | |

Fig. 5.4(iii)

| Columns in table | | | |
|------------------|-------------|----------|---------|
| Column | Type | Nullable | Indexes |
| ◇ markerclr | varchar(45) | YES | |
| ◇ markercb | varchar(45) | YES | |
| ◇ markercbl | varchar(45) | YES | |
| ◇ markercr | varchar(45) | YES | |
| ◇ penciln5 | varchar(45) | YES | |
| ◇ penciln10 | varchar(45) | YES | |
| ◇ penciln20 | varchar(45) | YES | |
| ◇ pencilcm5 | varchar(45) | YES | |
| ◇ pencilcm10 | varchar(45) | YES | |
| ◇ pencilcm20 | varchar(45) | YES | |
| ◇ pencila5 | varchar(45) | YES | |
| ◇ pencila10 | varchar(45) | YES | |
| ◇ pencila20 | varchar(45) | YES | |
| ◇ eraserns | varchar(45) | YES | |
| ◇ erasernl | varchar(45) | YES | |

Fig. 5.4(iv)

Columns in table

| Column | Type | Nullable | Indexes |
|----------|-------------|----------|---------|
| erasernb | varchar(45) | YES | |
| erasercs | varchar(45) | YES | |
| erasercl | varchar(45) | YES | |
| erasercb | varchar(45) | YES | |
| eraseras | varchar(45) | YES | |
| eraseral | varchar(45) | YES | |
| eraserab | varchar(45) | YES | |
| rulern15 | varchar(45) | YES | |
| rulern30 | varchar(45) | YES | |
| rulern50 | varchar(45) | YES | |
| rulerc15 | varchar(45) | YES | |
| rulerc30 | varchar(45) | YES | |
| rulerc50 | varchar(45) | YES | |
| rulera15 | varchar(45) | YES | |
| rulera30 | varchar(45) | YES | |

Fig. 5.4(v)

Query Fired:

```
CREATE TABLE `order` (
  `Username` varchar(255) NOT NULL,
  `OrderId` varchar(45) NOT NULL,
  `books50` varchar(45) DEFAULT '-',
  `books100` varchar(45) DEFAULT '-',
  `books200` varchar(45) DEFAULT '-',
  `bookcm50` varchar(45) DEFAULT '-',
  `bookcm100` varchar(45) DEFAULT '-',
  `bookcm200` varchar(45) DEFAULT '-',
  `bookc50` varchar(45) DEFAULT '-',
  `bookc100` varchar(45) DEFAULT '-',
  `bookc200` varchar(45) DEFAULT '-',
  `penpgblue` varchar(45) DEFAULT '-',
  `penpgblack` varchar(45) DEFAULT '-',
  `penpgred` varchar(45) DEFAULT '-',
  `penpbblue` varchar(45) DEFAULT '-'
```


``penpbblack` varchar(45) DEFAULT '-';`
``penpbred` varchar(45) DEFAULT '-';`
``penlgblue` varchar(45) DEFAULT '-';`
``penlgblack` varchar(45) DEFAULT '-';`
``penlgred` varchar(45) DEFAULT '-';`
``penlbblue` varchar(45) DEFAULT '-';`
``penlbblack` varchar(45) DEFAULT '-';`
``penlbred` varchar(45) DEFAULT '-';`
``pencgblue` varchar(45) DEFAULT '-';`
``pencgblack` varchar(45) DEFAULT '-';`
``pencgred` varchar(45) DEFAULT '-';`
``pencbblue` varchar(45) DEFAULT '-';`
``pencbblack` varchar(45) DEFAULT '-';`
``pencbred` varchar(45) DEFAULT '-';`
``filestb` varchar(45) DEFAULT '-';`
``filesty` varchar(45) DEFAULT '-';`
``filestr` varchar(45) DEFAULT '-';`
``filepb` varchar(45) DEFAULT '-';`
``filepy` varchar(45) DEFAULT '-';`
``filepr` varchar(45) DEFAULT '-';`
``filebxb` varchar(45) DEFAULT '-';`
``filebxy` varchar(45) DEFAULT '-';`
``filebxr` varchar(45) DEFAULT '-';`
``markerfb` varchar(45) DEFAULT '-';`
``markerfbl` varchar(45) DEFAULT '-';`
``markerfr` varchar(45) DEFAULT '-';`
``markerclb` varchar(45) DEFAULT '-';`
``markerclbl` varchar(45) DEFAULT '-';`

``markerclr` varchar(45) DEFAULT '-';`
``markercb` varchar(45) DEFAULT '-';`
``markerctl` varchar(45) DEFAULT '-';`
``markercl` varchar(45) DEFAULT '-';`
``penciln5` varchar(45) DEFAULT '-';`
``penciln10` varchar(45) DEFAULT '-';`
``penciln20` varchar(45) DEFAULT '-';`
``pencilcm5` varchar(45) DEFAULT '-';`
``pencilcm10` varchar(45) DEFAULT '-';`
``pencilcm20` varchar(45) DEFAULT '-';`
``pencila5` varchar(45) DEFAULT '-';`
``pencila10` varchar(45) DEFAULT '-';`
``pencila20` varchar(45) DEFAULT '-';`
``eraserns` varchar(45) DEFAULT '-';`
``erasernl` varchar(45) DEFAULT '-';`
``erasernb` varchar(45) DEFAULT '-';`
``erasercs` varchar(45) DEFAULT '-';`
``erasercl` varchar(45) DEFAULT '-';`
``erasercb` varchar(45) DEFAULT '-';`
``eraseras` varchar(45) DEFAULT '-';`
``eraseral` varchar(45) DEFAULT '-';`
``eraserab` varchar(45) DEFAULT '-';`
``rulern15` varchar(45) DEFAULT '-';`
``rulern30` varchar(45) DEFAULT '-';`
``rulern50` varchar(45) DEFAULT '-';`
``rulerc15` varchar(45) DEFAULT '-';`
``rulerc30` varchar(45) DEFAULT '-';`
``rulerc50` varchar(45) DEFAULT '-';`

```
`rulera15` varchar(45) DEFAULT '-';  
`rulera30` varchar(45) DEFAULT '-';  
`rulera50` varchar(45) DEFAULT '-';  
PRIMARY KEY (`OrderId`)  
);
```

CHAPTER 6

IMPLEMENTATION

A. Index Page

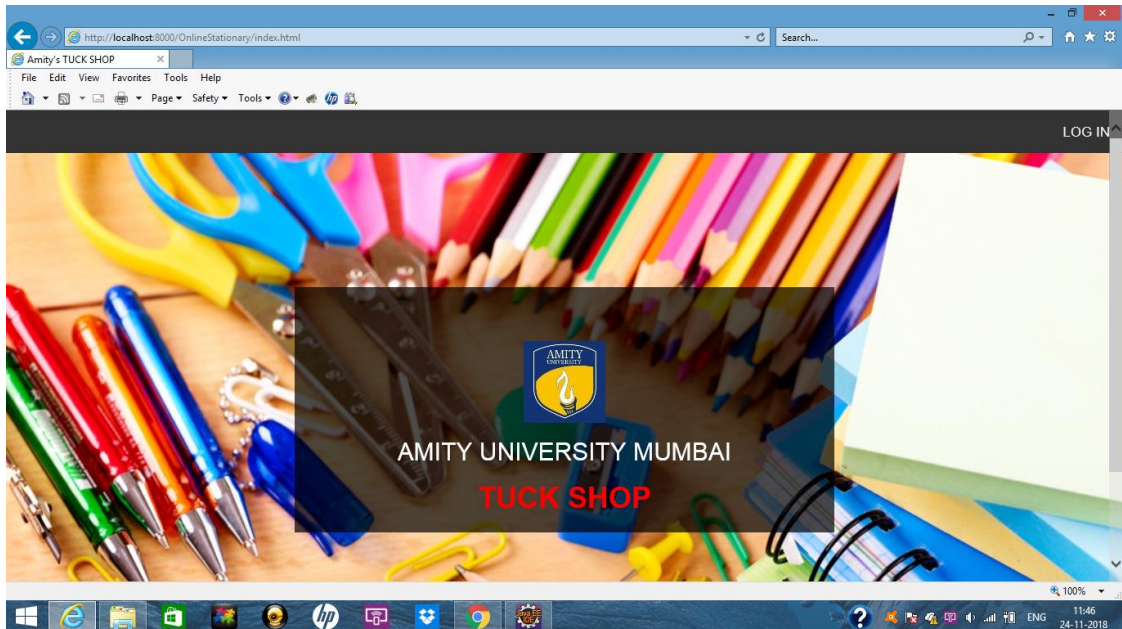


Fig. 6.1

B. Login Page

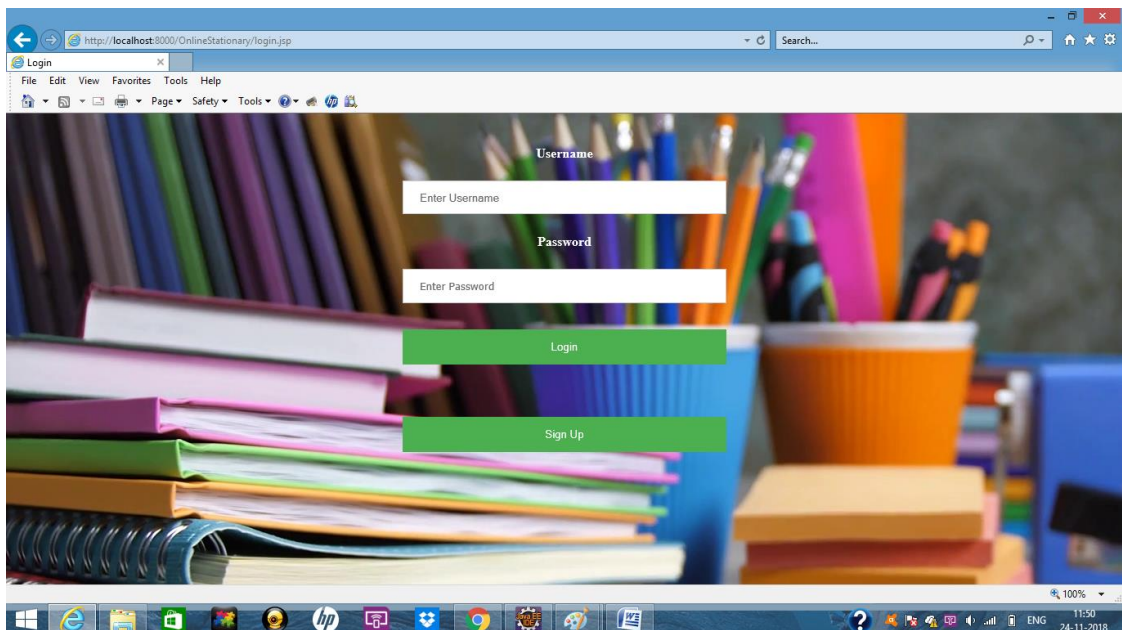
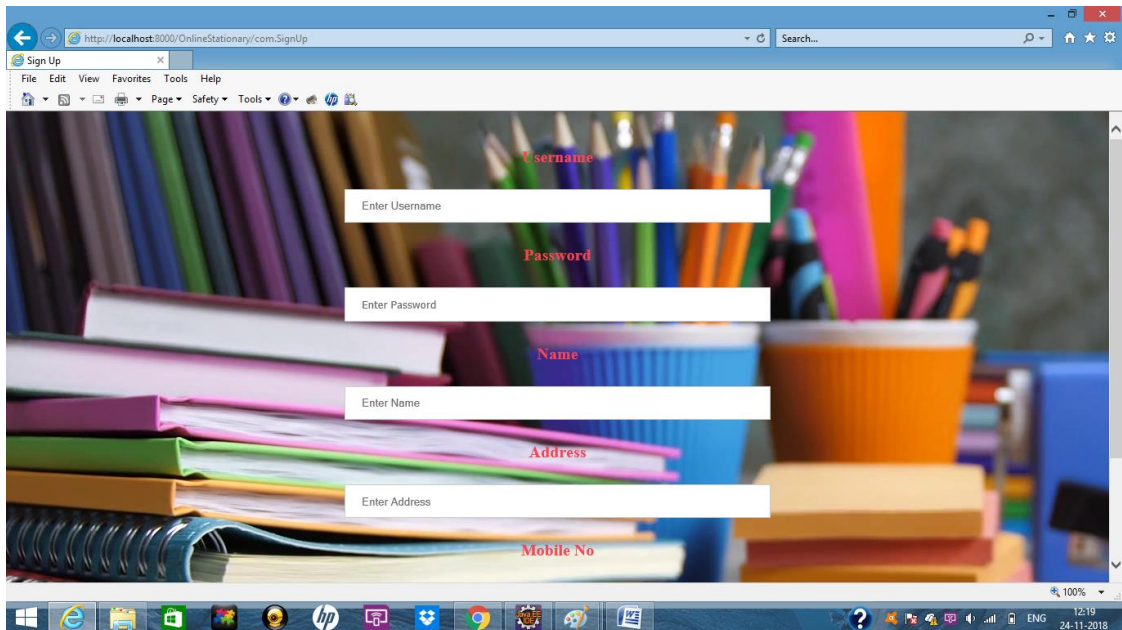


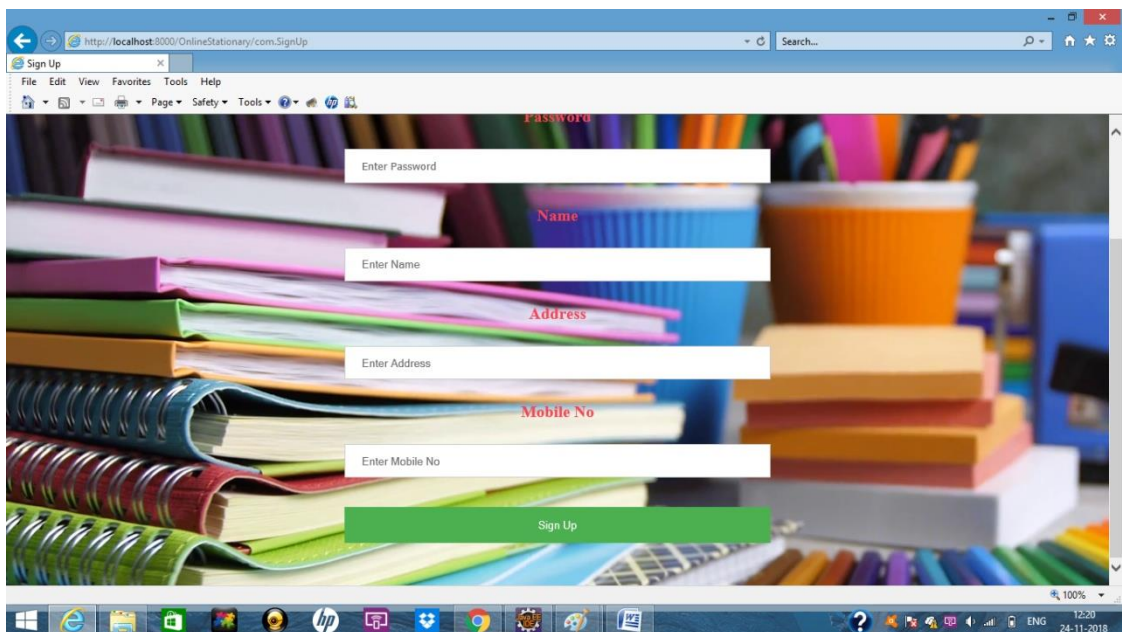
Fig. 6.2

C. Sign Up Page



A screenshot of a web browser displaying the Sign Up page. The browser's address bar shows the URL <http://localhost:8000/OnlineStationary/com.SignUp>. The page features a background image of school supplies like books and pencils. The form includes five input fields with red labels: 'Username' (with 'Enter Username' placeholder), 'Password' (with 'Enter Password' placeholder), 'Name' (with 'Enter Name' placeholder), 'Address' (with 'Enter Address' placeholder), and 'Mobile No' (with 'Enter Address' placeholder). The Windows taskbar at the bottom shows the date as 24-11-2018 and time as 12:19.

Fig. 6.3(i)



A second screenshot of the Sign Up page, showing the same form as Fig. 6.3(i) but with an additional 'Enter Mobile No' placeholder text in the 'Mobile No' field. A green 'Sign Up' button is visible at the bottom of the form. The browser's address bar shows the URL <http://localhost:3000/OnlineStationary/com.SignUp>. The Windows taskbar at the bottom shows the date as 24-11-2018 and time as 12:20.

Fig. 6.3(ii)

D. Sign Up Page when invalid Mobile Number is entered

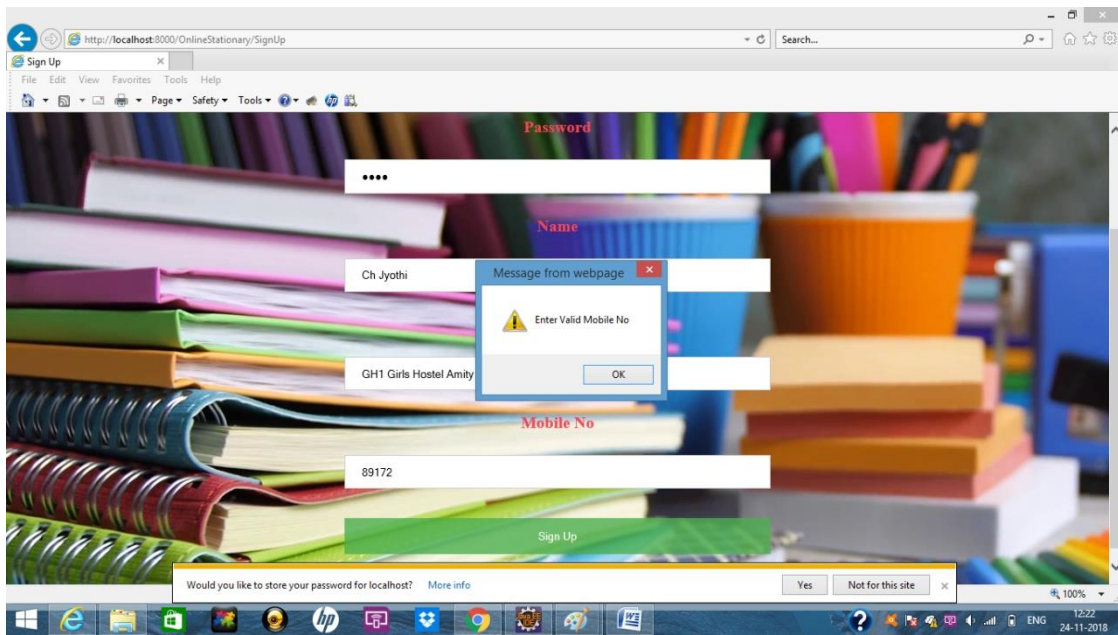


Fig. 6.4(i)

E. Sign Up Page when Username already exists

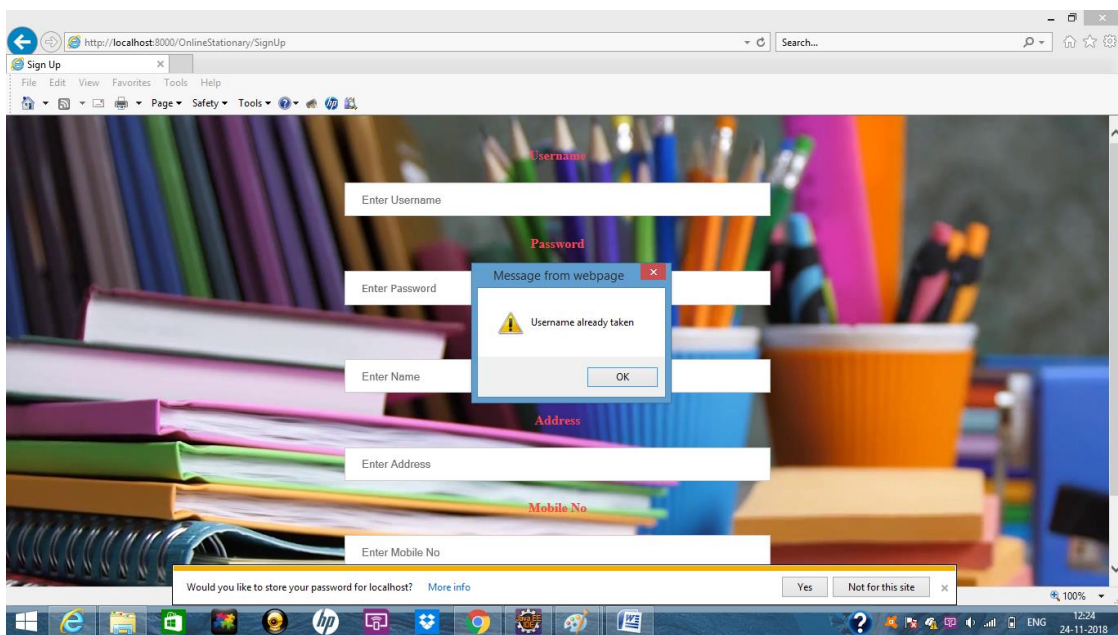


Fig. 6.4(ii)

F. Home Page

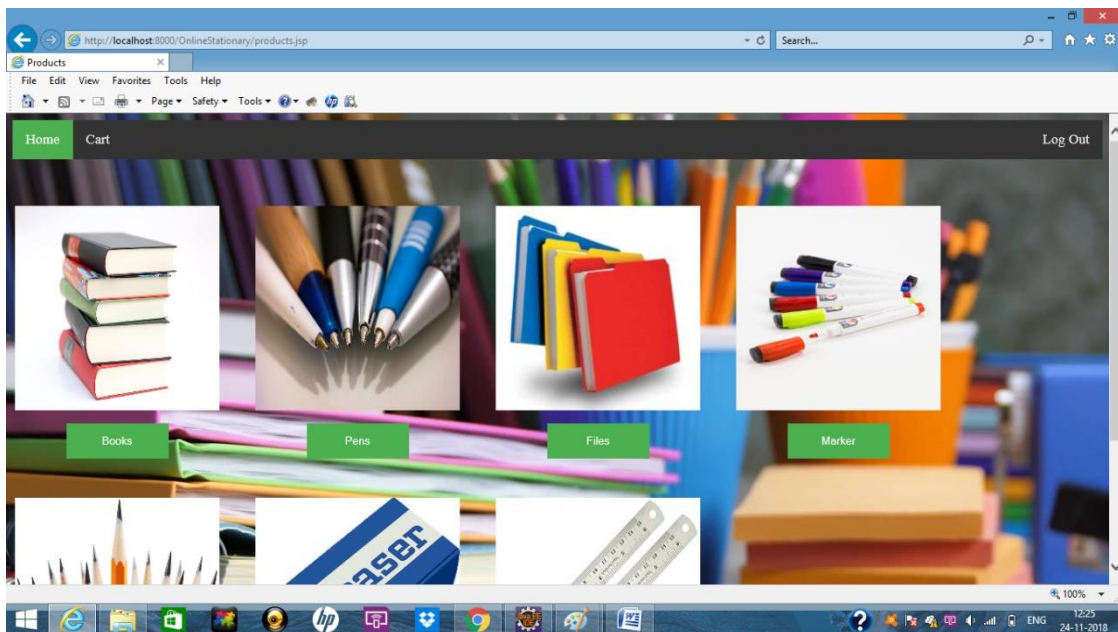


Fig. 6.5(i)

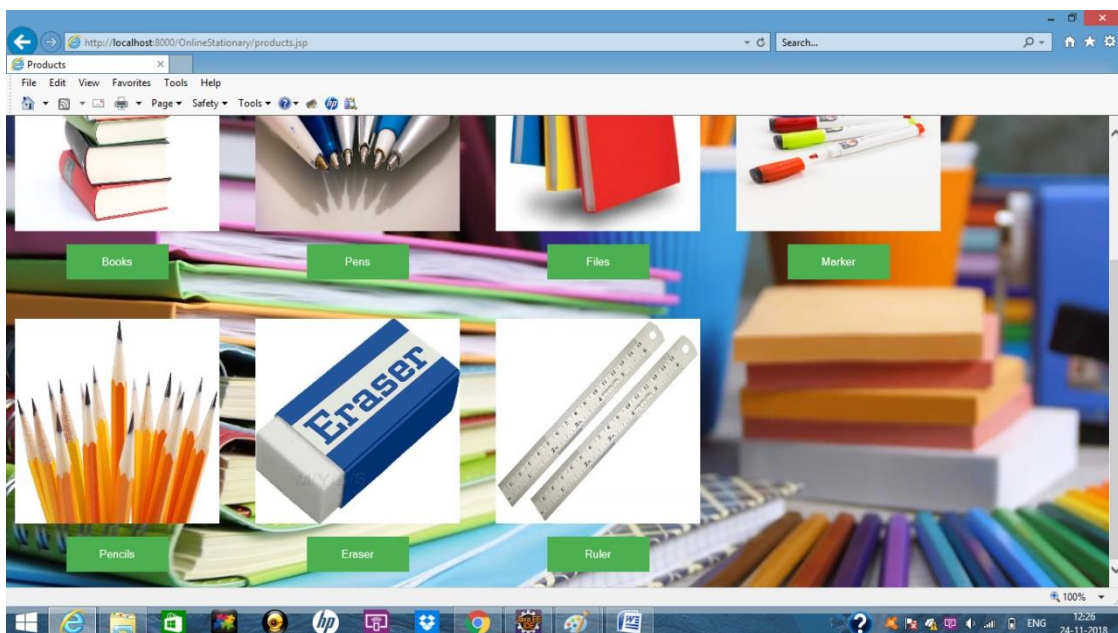


Fig. 6.5(ii)

G. When an Item is selected (Here, Books)

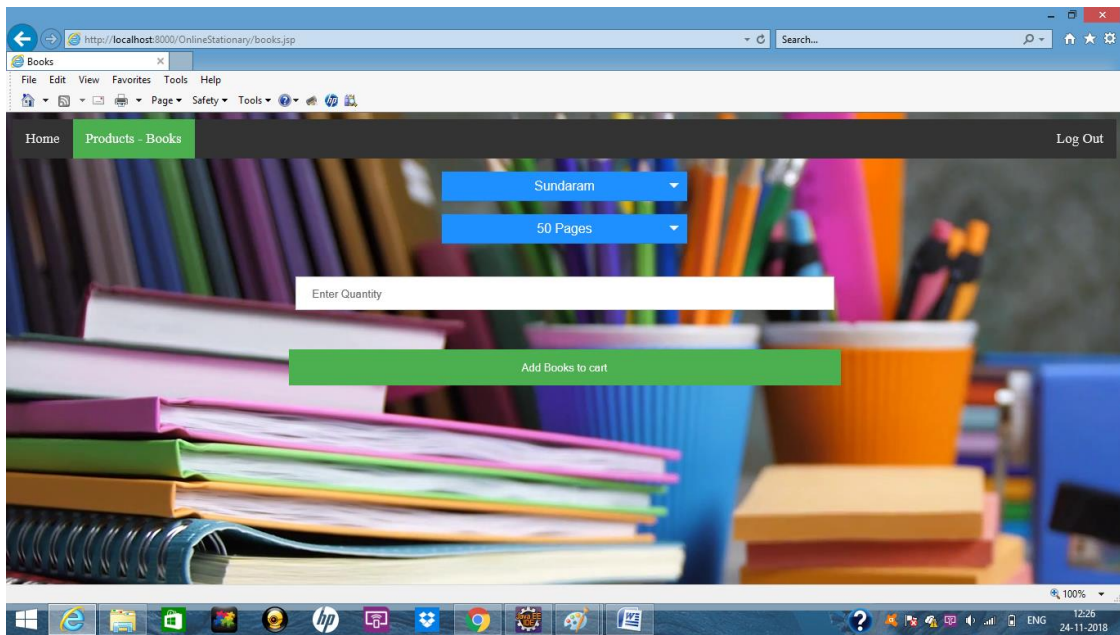


Fig. 6.6

H. Cart

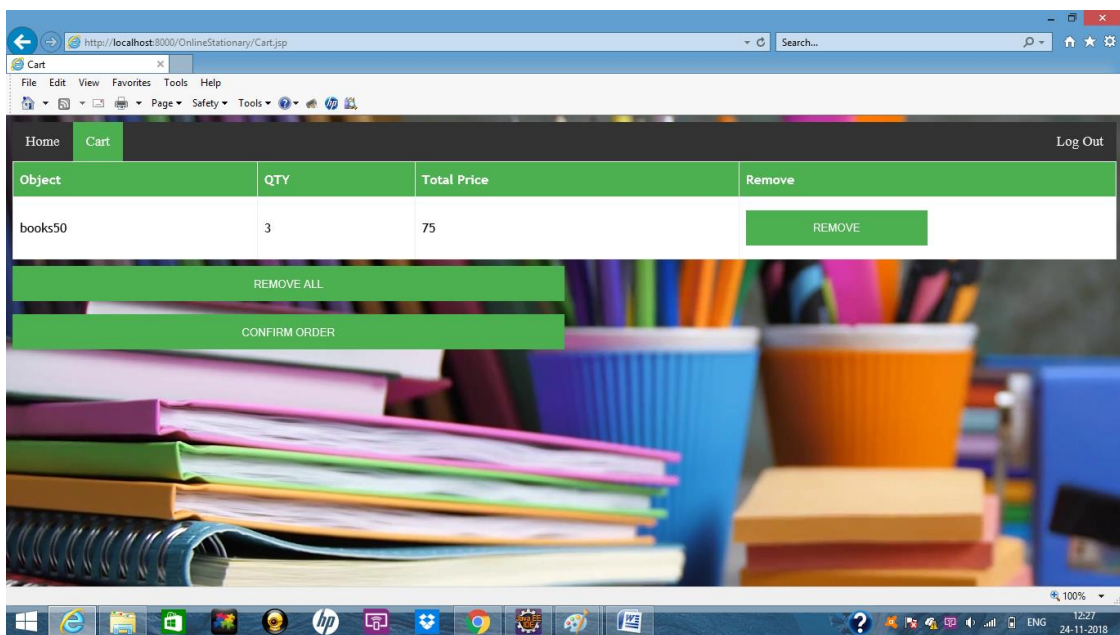


Fig. 6.7

I. Confirm Order

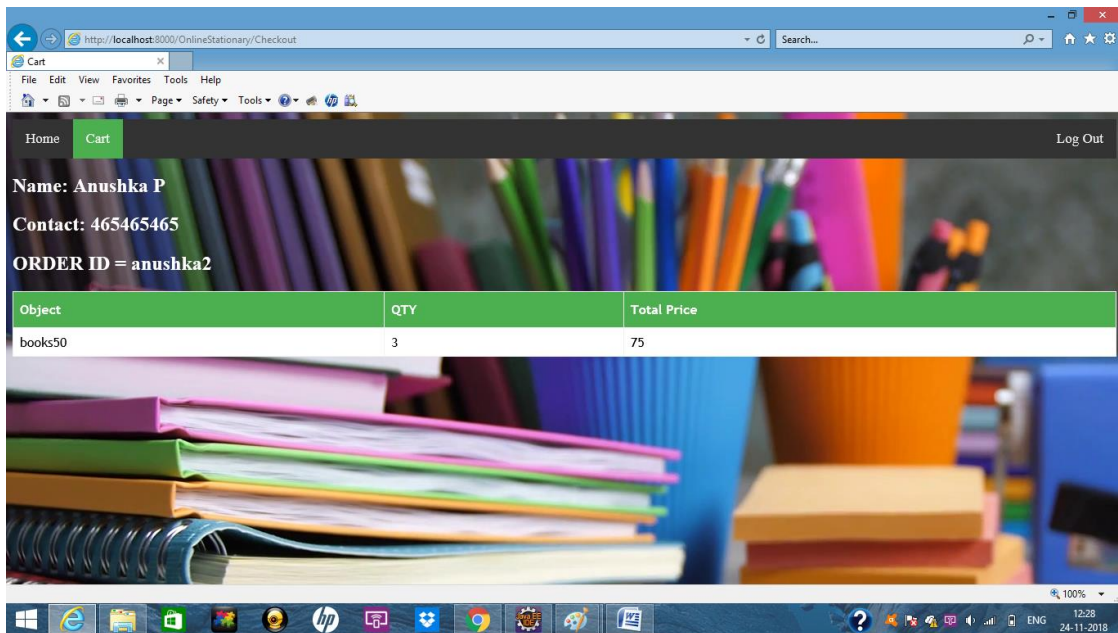


Fig. 6.8

J. Logout



(Redirects to the Login Page after 3 Seconds)

Fig. 6.9

CHAPTER 7

TESTING SCHEMES

| Test_CaseID | Test_Case Name | Objective | Test Data | Expected Output | Actual Output | Status |
|--------------------|----------------------------------|------------------------------------|---------------------------|--|--|---------------|
| TC_01 | Enter correct Username | Login Detail of existing user | Username | Accept Username | Accept Username | Pass |
| TC_02 | Enter Incorrect Username | Login details of the existing user | Wrong Username | Do not Accept the Username | Do not Accept the Username | Pass |
| TC_03 | Enter correct password | Login details of the existing user | Password | Accept password (if Username is correct) | Login Successful | Pass |
| TC_04 | Enter Incorrect Password | Login details of the existing user | Incorrect Password | Do not accept the password | Incorrect Password | Pass |
| TC_05 | Enter Password (< 4 characters) | Login details of the existing user | Password (<4 characters) | Do not accept the password | Do not accept the password. Please Enter minimum no. of required characters. | Pass |
| TC_06 | Enter Username(in words) | Create Account | Username (in words) | Accept Username | Accepts Username | Pass |
| TC_07 | Enter already existing Username | Create Account | Already existing Username | Username already exists. | Username already exists. | Pass |
| TC_08 | Enter Name (in numbers, symbols) | Create Account | Correct Name format | Accept Name | Accept Name | Pass |
| TC_09 | Enter Mobile Number (10 digits) | Create Account | Mobile Number (10 digits) | Accept the mobile number | Accept the mobile number | Pass |

| | | | | | | |
|-------|---|---------------------------------------|------------------------------------|---|---|------|
| TC_10 | Enter Mobile Number (< 10 digits) | Create Account | Mobile Number (<10 digits) | Do not Accept. Enter Valid Mobile number | Do not Accept. Enter Valid Mobile number | Pass |
| TC_11 | Enter Mobile Number (in Alphabets) | Create Account | Enter Mobile Number (in Alphabets) | Do not Accept. Enter Valid Mobile Number | Do not Accept. Enter Valid Mobile Number | Pass |
| TC_12 | Enter Mobile Number (in Symbols) | Create Account | Enter Mobile Number (in Symbols) | Do not Accept. Enter Valid Mobile Number | Do not Accept. Enter Valid Mobile Number | Pass |
| TC_13 | Leave Text Field empty | Create Account | No data | Cannot leave Text Field empty. Please Enter required data | Cannot leave Text Field empty. Please Enter required data | Pass |
| TC_14 | Click 'Back' Button | Disabling 'Back' Button after Login | Mouse Click | Home page is not to be navigated to Login page | Home page is not navigated to Login page | Pass |
| TC_15 | Click 'Back' Button | Disabling 'Back' Button after SignUp | Mouse Click | Home page is not to be navigated to SignUp page | Home page is not navigated to Sign-up page | Pass |
| TC_16 | Click 'Back' Button | Disabling 'Back' Button during Logout | Mouse Click | Logout page is not to be navigated to previous page | Logout page is not navigated to previous page | Pass |
| TC_17 | Enter Quantity (> 0 in Product details) | Add To Cart | Numbers | Accept. Item Added to Cart. | Accept. Item Added to Cart. | Pass |
| TC_18 | Enter Quantity(<= 0 in Product details) | Add to Cart | Negative numbers or zero | Do not Accept. | Do not Accept. Invalid Input | Pass |
| TC_19 | Enter Quantity(in Alphabets) | Add to Cart | Alphabets | Do not Accept | Do not Accept. Invalid Input | Pass |
| TC_20 | Order confirmed | Order Confirmation | --NA-- | Order ID Generated | Order ID Generated | Pass |
| TC_21 | Logout | Logout | --NA-- | Login Page Available | Login Page Available | Pass |

Table 7.1

CHAPTER 8

FUTURE SCOPE

- Cross Platform: The system can be modified to be run on various other platforms especially as the mobile application.
- Increased Categories: The current system only focuses onto the availability of stationery items. The future system can have all the items that are provided by the TuckShop. The items can be generalized under the various categories besides stationery, that are, Grocery Items, Fashion, Xerox and Printing options.
- Update: The shopkeeper can have the facility to update the products and their prices whenever needed.
- Stock Management for Admin: The admin can manage orders by updating the available stock for the convenience.
- Password Recovery: Password recovery Options via One Time Passcodes on the registered mobile number, Email Ids or other recovery options can be made available.
- Payment Gateway: The Payment Gateway can be included with various other payment options besides Cash On Delivery (COD).
- Advance Security Module: When the Payment Gateway is included, the Security standards need to be upgraded and hence considering the Security Module as the next future scope. The mentioned Security Module might include a two-step verification, reCAPTCHA.
- Automatic Registration by integrating the software with University's Students/Faculty Portal: The system can further be made accessed through Amizone via automatic registration.
- Loyalty Points: The website can have loyalty points for its customers which they can redeem to have cashbacks/savings or even the coupons which can be redeemed anywhere at the campus, like at canteens.
- Filters: Application can be made easier for our customers by giving them an option to Filter their choices on the basis of Departments, Prices, Newest Arrivals, Languages (in Books) etc.

- Wallet: The application can have the facility of its own, providing the customers to store their money on the Application's Wallet via their bank accounts and pay it through the wallets directly for any purchases from the application.
- View History Orders & Re-ordering the same: The customers can re-order the purchases in the same combination of items from their History Orders.
- Time, Day & Date: The application shall record the time, date and days of the last Login and Logout.
- Request Unavailable Items of the Existing Categories on the Tuck Shop: For the items, currently unavailable, customers can request to make a certain item of the categories offered by the Tuck Shop to be made available within days, if possible.

CONCLUSION

So, we see how much difficult it is for people to wait in long queues and still not have guarantee if they will get their product or not, all this in the era of technology. The goal of this entire proposal was to enhance efficiency of the customers at our University by saving their time and it has rightly achieved it in most ways. They simply have to register themselves, choose items that they wish to buy, enter the details such as quantity and brand name, add it to cart and then confirm their order.

If we are to look at a bigger picture and its deployment, definitely a lot of things are to be changed, checked and then rechecked for its functionalities and then further the non functional requirements, as well.

This project has the potential to achieve all its Future Scopes but thinking to its “How?”, still remains partially unanswered. No wonder, answers reveal as and when this software is worked upon for its further development.