



Mawlana Bhashani Science & Technology University

Department of Information & Communication Technology

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Course Title: Software Development Project

Course Code: ICT-1200

Presentation on Shopify Manager

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Introduction

The Shopify Manager is a console-based program designed to perform the operational tasks of small- to medium-sized retail outlets. Using this program, the manager can easily manage orders according to customers' need, update inventory and maintain employee records.

Objectives

The Shopify Manager is a console-based program designed to perform the operational tasks of small- to medium-sized retail outlets. Using this program, the manager can easily manage orders according to customers' need, update inventory and maintain employee records.

A fully functioning shop management system including the following features:

- Secure login and authentication.
- Changing the login credentials.
- Dynamic order management section that displays the items in an intuitive way.
- Inventory management section that will be used to add, update and delete items or categories.
- Employee management section that will be used to add, update, or delete employees data in different categories.
- Sales Records section where authorized personnel can see previous sells.
- CSV file storage system that organizes products by categories, product orders by date and time, and staff records by role

User Defined Functions

- **clearcurrentline():** Replace the line with empty string.
- **userinput(int low, int high, string s):** Here all the inputs are taken from the user. It ensures handling edge cases by using low and high number with a suitable message "s".
- **loadData():** It loads data from csv file and saves it in a private variable.
- **updateFile():** This can update the file according to how the user wants to change the information.
- **DateOrTime():** It generates the present time and date.

Results

Login Screen

```
=====
Welcome to RoxxCart Store
=====
1: Login
2: Change Credentials
3: Exit
Please enter your choice: |
```

Change Credentials

```
1: Change Manager Email
2: Change Manager Password
3: Change Admin Email
4: Change Admin Password
Please Enter Choice or Press 0 to Go Back: |
```

Home Screen

```
=====
Welcome to RoxxCart Store
=====
1: Process Order
2: Update Inventory
3: Display and Update Employee Data
4: See Transaction Records
5: Change Login Credentials
6: Logout
7: Quit Program
Please enter your choice: |
```

Employee Menu

```
1.Administrative
2.Chef
3.Management
4.Specialized Roles
5.Supportive Staff

1: Enter New Staff Category
2: Delete Entire Category
3: Update Current Staff Category
Please Choose or Press 0 to Go Back: |
```

Results

Inventory

The RoxxCart Store

Category-1:Beverage

Sl.	Name	Price
1	CocaCola-500ml	\$1.99
2	Pepsi-330ml	\$1.5
3	Sprite-500ml	\$1.99
4	Red Bull-250ml	\$2.5
5	Tropicana-1L	\$3.99
6	Dew-500ml	\$1.99
7	Fanta-330ml	\$1.75

Category-2:Cleaning Supply

Sl.	Name	Price
1	Lysol Spray	\$6.99
2	Dettol 1L	\$4.99
3	Tide 1.5kg	\$8.5
4	Clorox 500ml	\$3.99
5	Harpic 500ml	\$3.25
6	Sponges (2pk)	\$2.5

Category-3:Personal Care

Sl.	Name	Price
1	Nivea Soap	\$2.99
2	Dove Wash	\$5.5
3	Tresemme	\$6.99
4	Colgate	\$3.25
5	Head&Shoulder	\$4.99
6	Gillette Foam	\$3.75

Category-4:Snacks & Dairy

Sl.	Name	Price
1	Amul Butter	\$3.25
2	Parle-G	\$1.25
3	Bread Pack	\$2.5
4	Lurpak 250g	\$4.5
5	Brit Rusk	\$2.99
6	Oreo 120g	\$2.25
7	Cheese Slice	\$2.75
8	Milk 1L	\$1.99

Category-5:Stationary

Sl.	Name	Price
1	Parker Pen	\$5.99
2	Post-it 100	\$2.5
3	Camlin Box	\$3.99
4	Classmate	\$2.99
5	Faber HiLit	\$4.5
6	Scotch Tape	\$1.99

Category-6:Toys

Sl.	Name	Price
1	Lego Set	\$29.99
2	Hot Wheels	\$5.99
3	Barbie Doll	\$12.5
4	NERF Gun	\$24.99
5	Rubik Cube	\$7.99
6	Action Toy	\$15.99
7	Puzzle 500pc	\$9.99

Please Enter Category Number or 0 to Cancel: |

Results

Transaction Records

Time: 09.12.51 AM

Sl.	Category	Item	Price	Quantity	Total
1	Cleaning Supply	Dettol 1L	4.99	4	\$19.96
2	Personal Care	Tresemme	6.99	6	\$41.94
3	Snacks & Dairy	Lurpak 250g	4.5	8	\$36
4	Stationary	Faber HiLit	4.5	10	\$45
5	Toys	Action Toy	15.99	12	\$191.88
Total Amount					\$334.78
Payment Received					\$500.35
Money Changed					\$165.57

Time: 11.47.15 AM

Sl.	Category	Item	Price	Quantity	Total
1	Beverage	CocaCola-500ml	1.99	10	\$19.90
2	Cleaning Supply	Clorox 500ml	3.99	5	\$19.95
3	Personal Care	Head&Shoulder	4.99	6	\$29.94
Total Amount					\$69.79
Payment Received					\$78.50
Money Changed					\$8.71

Achievement

- Through hands-on experience in building a complex software system, it helped in enhancing technical proficiency in C++, file handling, user authentication and data management.
- The project helped developing better debugging techniques and solutions to real-world technical problems that arise during development.
- It helped refining skills in managing a full software development life cycle from planning and design to testing and deployment ensuring the project is completed on time and within scope.

Limitations

- The Files which are named after date or time are not sorted because it requires knowledge in comparators.
- There is no GUI used in this project.
- Navigation buttons are not implemented.
- Sometimes the program crashes or enters an endless loop if input type doesn't match with the variable's declaration type.
- The login credentials completely depend on a csv file. Two step verification for example sending randomly generated in email and then matching it in input is not implemented.

Future Goals

- Enhance the visual appeal by adding better GUI using framework like QT or GTK.
- Include sound effects for things like wrong password, exit confirmation.
- Create mobile version of the application.
- Implement database for example SQLite for persistent storage of employee, inventory or transaction records.

Thank You