End Semester Project

Web and Android Technology

IT-604

Satadru Banerjee

BTech 6th Sem

Roll: T91/IT/174111

Reg: DO1-1111-0167-17

Table of Contents:

- Problem Statement
- Problem Analysis
- Flowchart
- Class Diagram
- Table Structure
- Input/Output
- Code Repository
- Conclusion

Problem Statement:

Develop a Web based client-server application for maintaining the inventory management. It accepts item detail and issue the same by checking all validations. System should have authentication.

Specific instructions:

- Follow the MVC architecture
- Define session for handling idle time.
- Design database / table with triggers
- Design web interface responsive
- Use the language / tools: Java, HTML, CSS, JavaScript, MySQL, and others.
- You may add more features

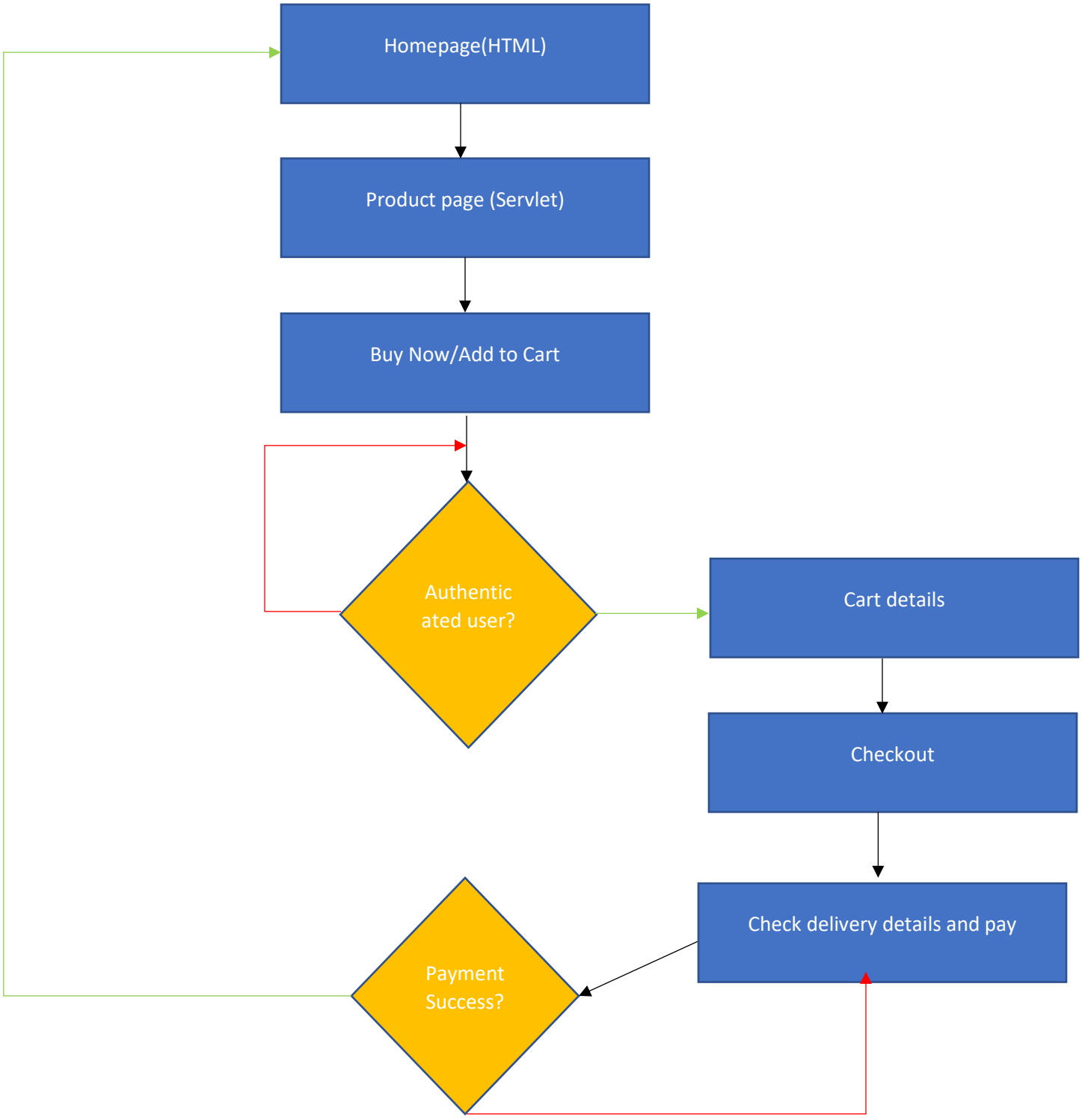
Problem Analysis:

Here, the inventory management system is the cart feature of a mock e-commerce platform. The user can add products to his cart and remove them if needed. Here, the user will be able to proceed to a final checkout page and post a mock payment, be redirected to the homepage. The model continuously fetches data about the products, the user's cart as well as the user's details and upgrades the view which is our HTML interfaces. The controllers are connected to the database tables and accordingly create, update and delete the table entries. For now, products and users are hardcoded into the database.

The solution can be subdivided into the following major steps:

- An HTML based frontend which serves as the primary user interface. The homepage is a pure HTML, CSS, JS file. Since the approach chosen is of the inventory management system of an E-commerce site, the homepage describes our products and related features.
- On clicking a particular project, the user is taken to the product details page, which is based on java servlets and fetches the product related data from a MySQL database.
- The User can select add to cart option, And will be asked to login. Post this, product and its relevant details as well as the user's unique id will be pushed to the cart table.
- On clicking the cart icon, all entries in the cart table are shown.
- The user can click proceed to checkout. Based on his ID, the user is identified from the table of users and his delivery address and other details are displayed, with an option to edit.
- On selecting an appropriate payment option, the user can proceed to payment. Post this, the cart will be emptied and the order is placed. User is redirected to the homepage

User Flow:


Homepage(HTML)
Product page (Servlet)
Buy Now/Add to Cart
Authentic ated user?
Cart details
Checkout
Check delivery details and pay
Payment Success?

Class Diagram:

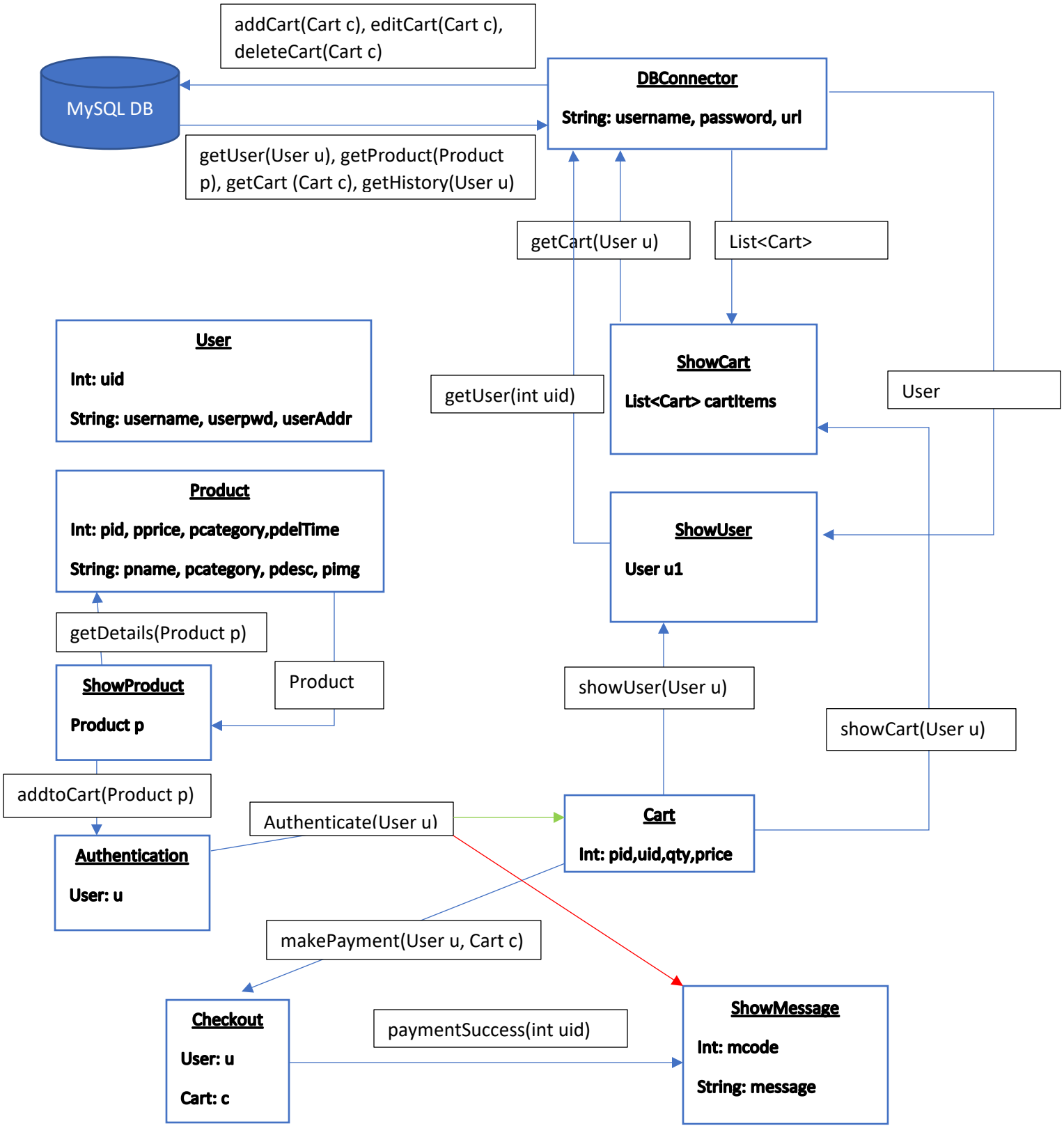
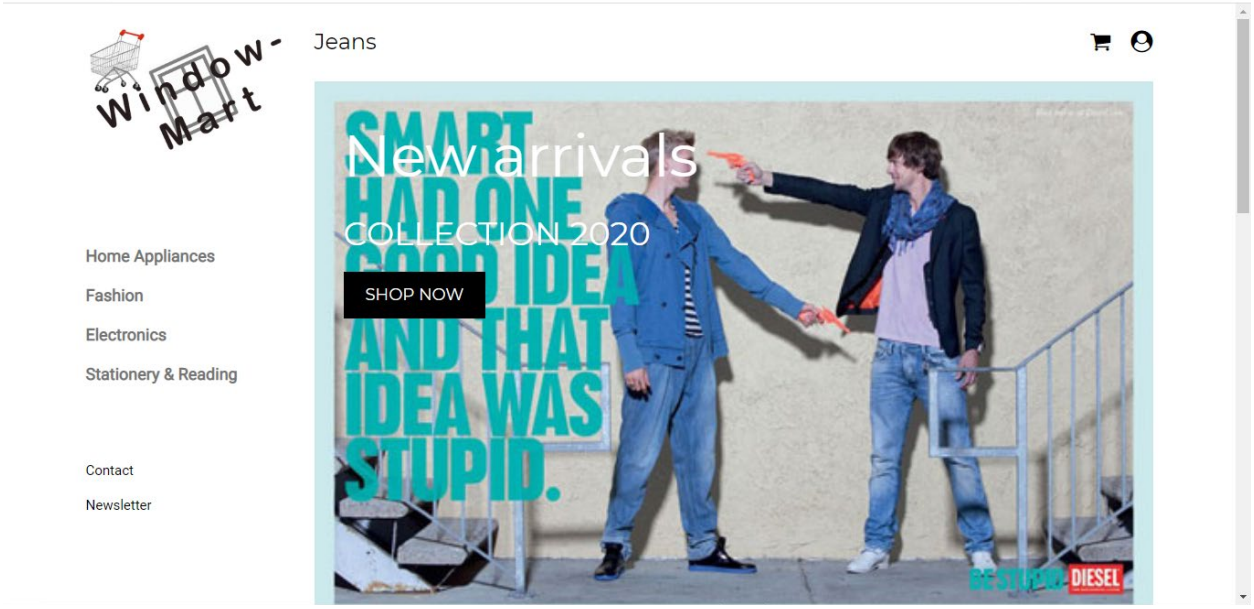
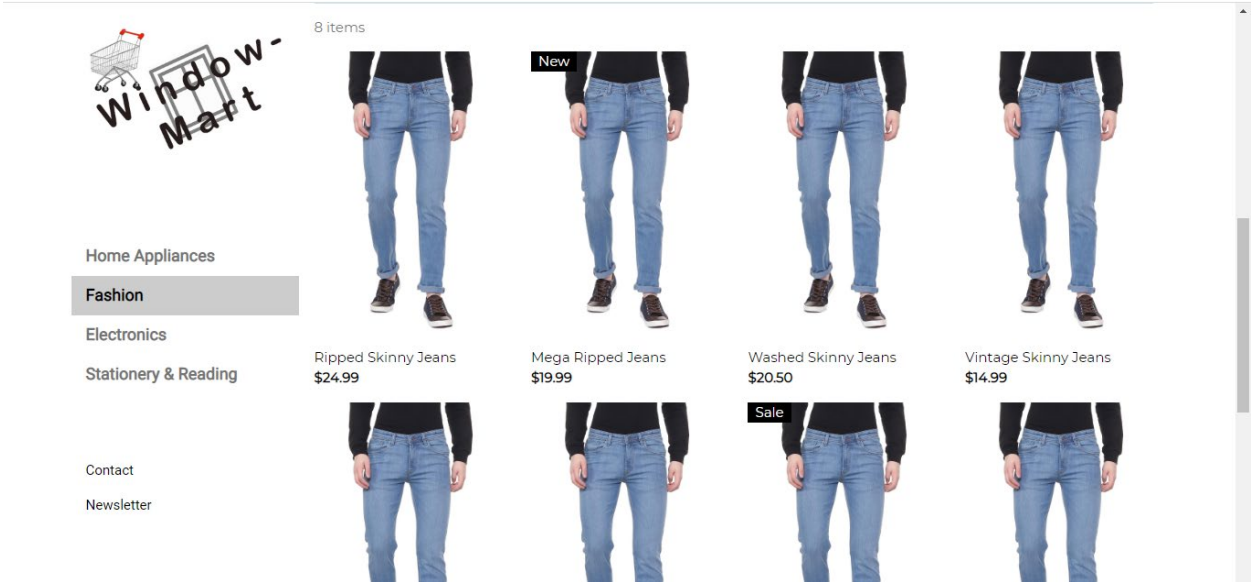
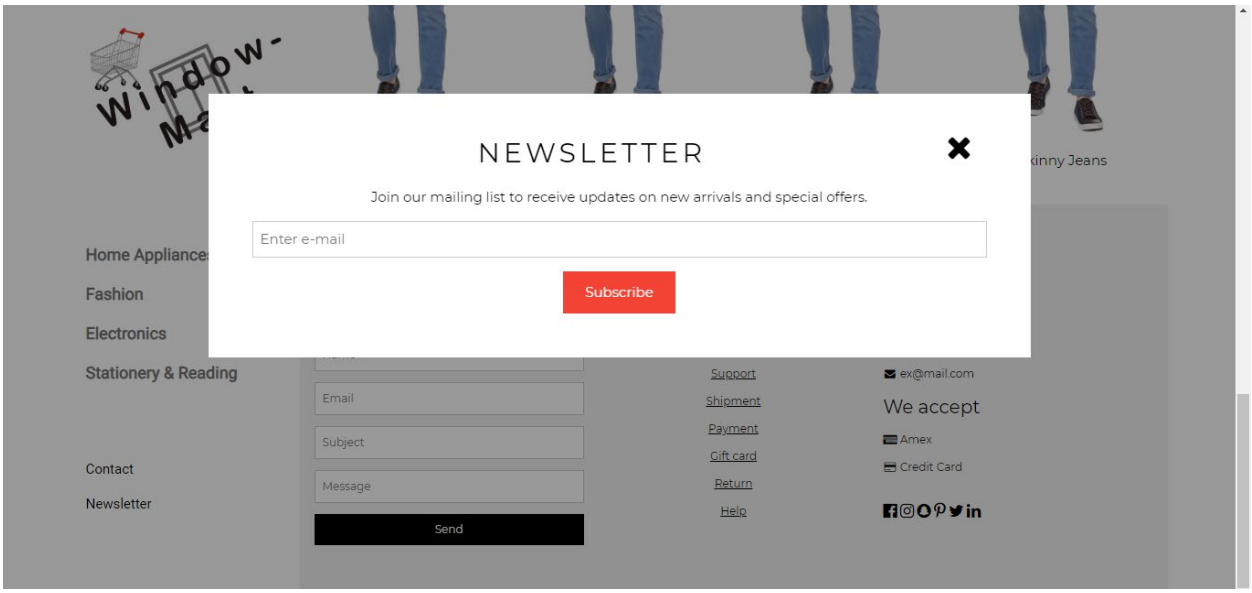


Table Structure:

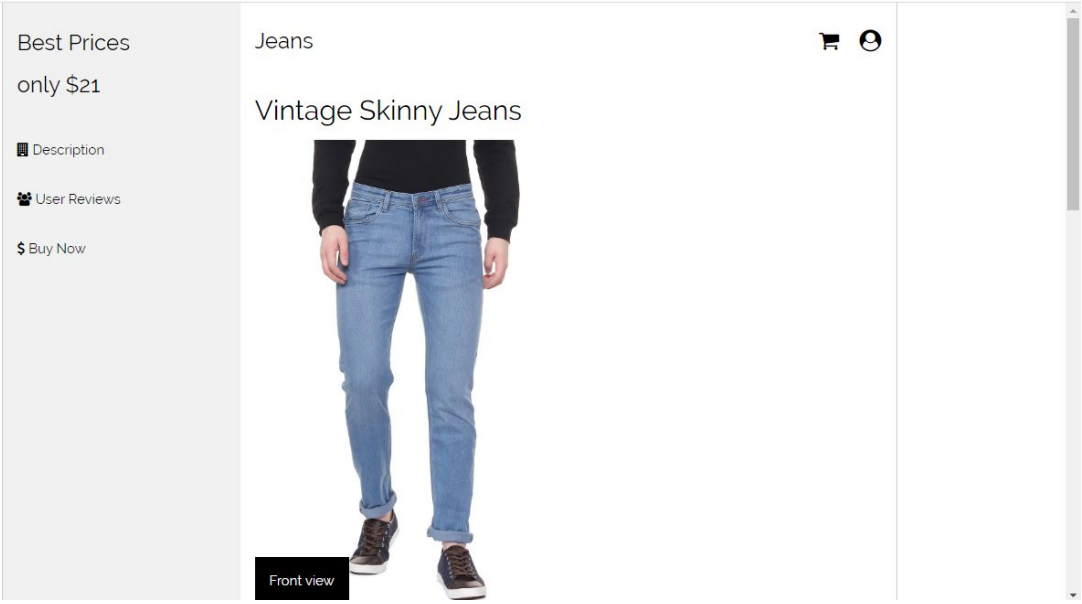
Sample Input/Output Operations:







Product page:



Best Prices
only $21

Description

User Reviews

$ Buy Now

Rating: ★★★★½

Return Rules

Products can be returned upto 14 days after purchase. The product must be in original packaging without any damage (Excluding manufacturing defects)

Contact

Questions? Go ahead.

Name

Email

Subject

Message

Send

About

About us

We're hiring

Support

Shipment

Payment

Gift card

Return

Help

Store

Window-Mart

0044123123

sales@winmart.com

We accept

Credit Card

$ Cash on Delivery

Best Prices
only $21

Description

User Reviews

$ Buy Now

Product Description

Available sizes: 4

Hurry up! few left in stock

Super soft denim fabric with added stretchability and breathable fabric for all day comfort

Add to Cart

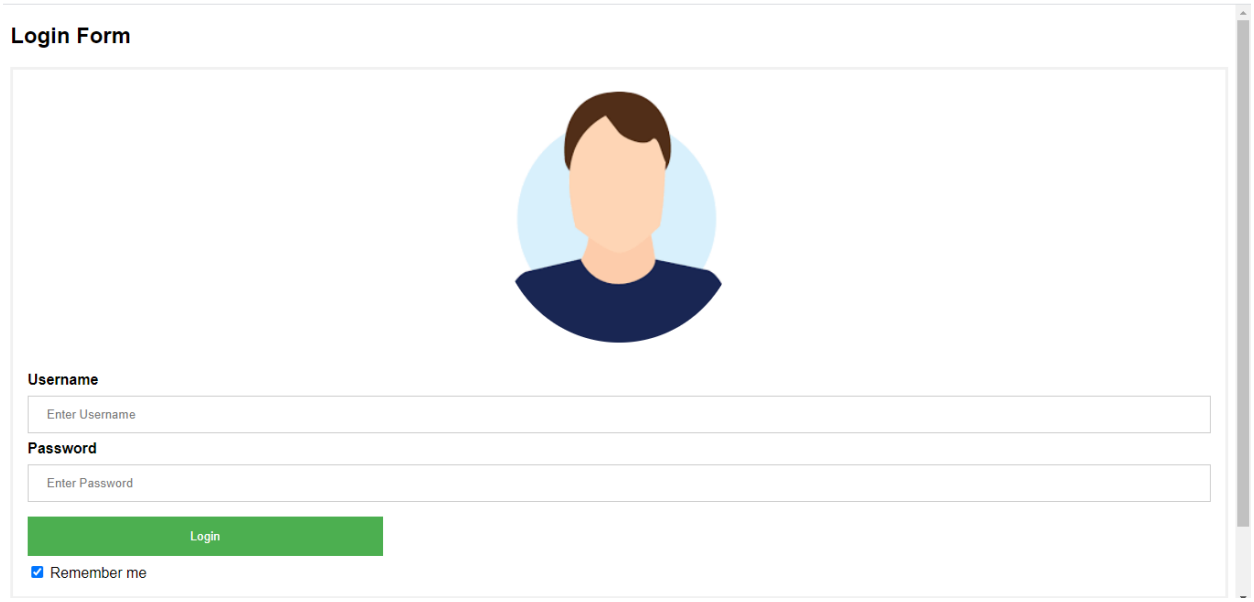
User Review

Wonderful product. great quality. Really pleased with my purchase.

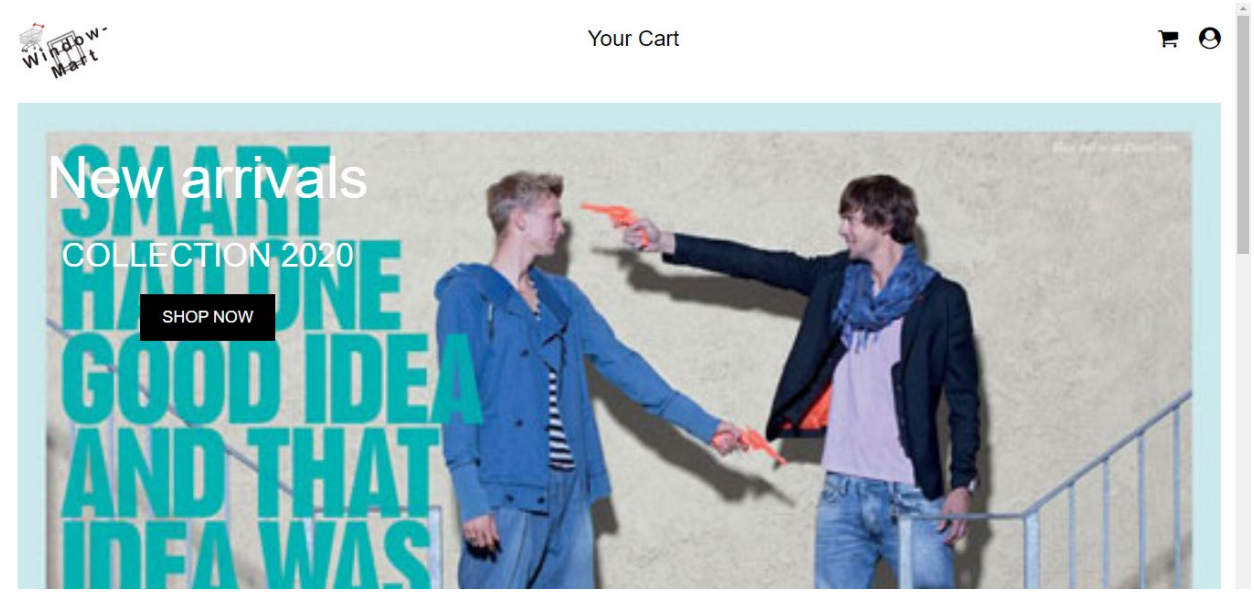
Rating: ★★★★½

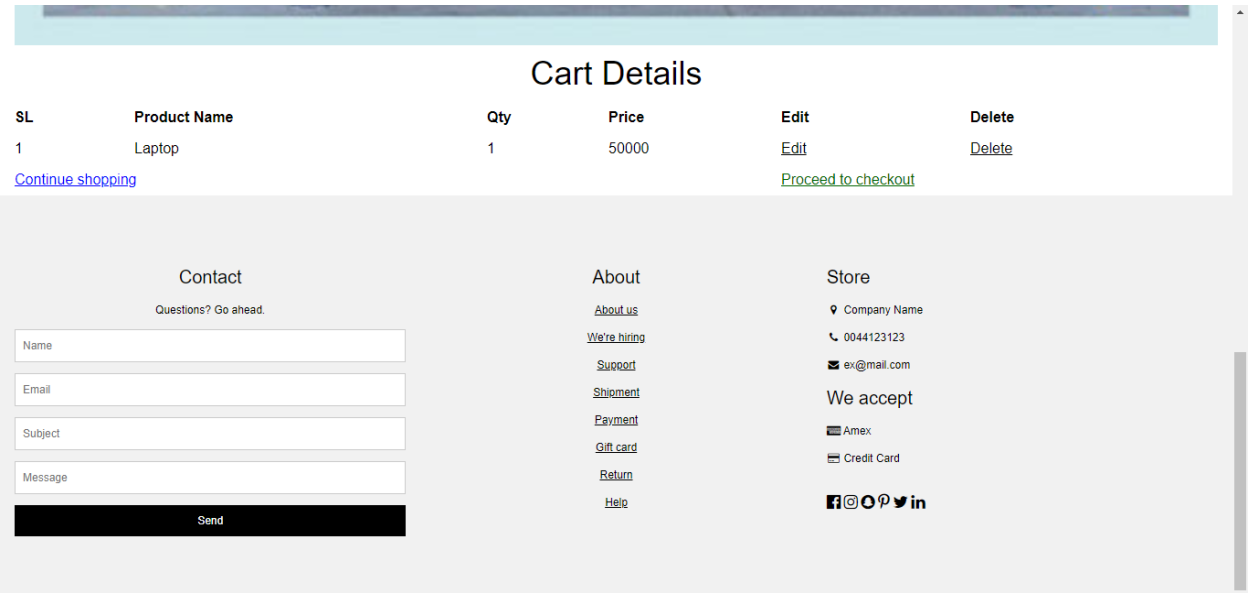
Return Rules

Products can be returned upto 14 days after purchase. The product must be in original packaging without any damage (Excluding manufacturing defects)

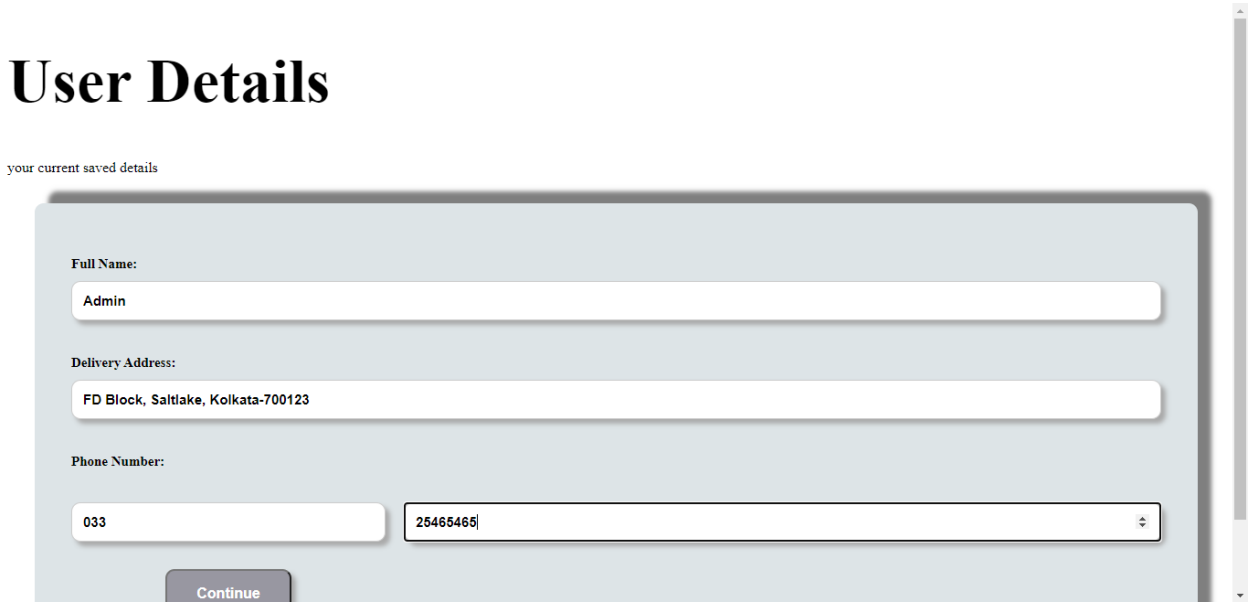

Login Form
Username
Enter Username
Password
Enter Password
Login
Remember me

The cart:


Your Cart
New arrivals
COLLECTION 2020
SHOP NOW
SMART
GOOD IDEA
AND THAT



Checkout details:



Code Repsitory:

https://github.com/Satadru-Banerjee/Window-Mart

Conclusion:

This project is an ideal example of how the MVC architecture can be easily implemented, making some of the most complicated problems modular and easy to edit. The project also has a number of features disabled at the moment which add a degree of scalability and the ability to expand this application vastly. Further features will include a product management system and a user editing panel and addition of new features. There is also the case of adding more products and online analytics features for traffic and engagement monitoring. However, in all, this project represents a perfect representation of the MVC architecture in a real-world scenario.