PROJECT REPORT on JEAN STATION SHOPPING APP

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Introduction

This project is a web based shopping system for an existing shop. The project objective is to deliver the online shopping application into android platform. Online shopping is the process whereby consumers directly buy goods or services from a seller in real-time, without an intermediary service, over the Internet. It is a form of electronic commerce. This project is an attempt to provide the advantages of online shopping to customers of a real shop. It helps buying the products in the shop anywhere through internet by using an android device. Thus the customer will get the service of online shopping and home delivery from his favourite shop.

Shopping has long been considered a recreational activity by many. Shopping online is no exception. The goal of this application is to develop a web based interface for online retailers. The system would be easy to use and hence make the shopping experience pleasant for the users.

The existing business model is insufficient to meet customer demands. To over come the current limitations, we are developing a software for online shopping named JeanStation application that can be globally used to shop the attire you desire. The store will have its own interface through which it will be able to manage the orders pertaining to that store.

Objective

The objective of the project is to make an application in android platform to purchase items in an existing shop. A complete and efficient web application which can provide the online shopping experience is the basic objective of the project. The web application can be implemented in the form of an android application with web view.

The application was designed into two modules first is for the customers who wish to buy the articles. Second is for the storekeepers who maintains and updates the information pertaining to the articles and those of the customers. The end user of this product isa departmental store where the application is hosted on the web and the administrator maintains the database. The application which is deployed at the customer database, the details of the items are brought forward from the database for the customer view based on the selection through the menu and the database of all the products are updated at the end of each transaction.

DESCRIPTION OF EXISTING SYSTEM

Currently, each JeanStation store has a store manager who leads the other staff of the store to perform the day-to-day operations.

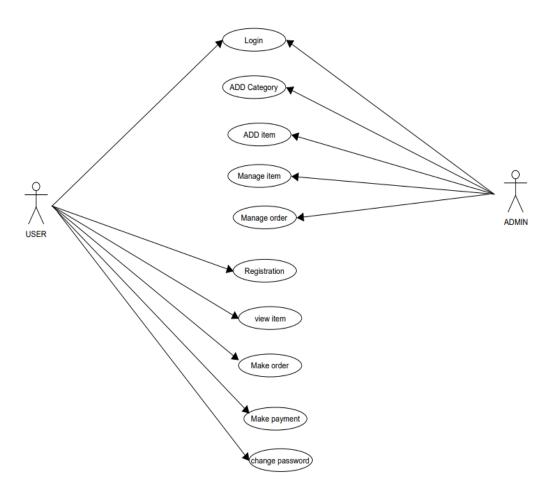
To market their products, JeanStation uses the print and electronic media. JeanStation also has a website that they update to showcase the products available in their stores.

However, the current system of retail marketing has several limitations. Often customers who walk in to a store to buy a new advertised product complain when the product does not arrive at the store. As a result customers return back disappointed. In addition, most of the competitors of JeanStation have launched e-commerce solutions to make it convenient for customers to buy apparels without the need to visit a store.

All these factors are not only affecting the brand image of JeanStation but are also reducing sales, which has resulted in a loss in the company's revenue.

OOAD OF PROJECT

4.1 Use Case Diagram



Above shows the use case diagram of JeanStation shopping cart application. It is a graphical depiction of user's and admin's possible interactions with a system.

Here use case diagram describe the relationship between users and use cases. A

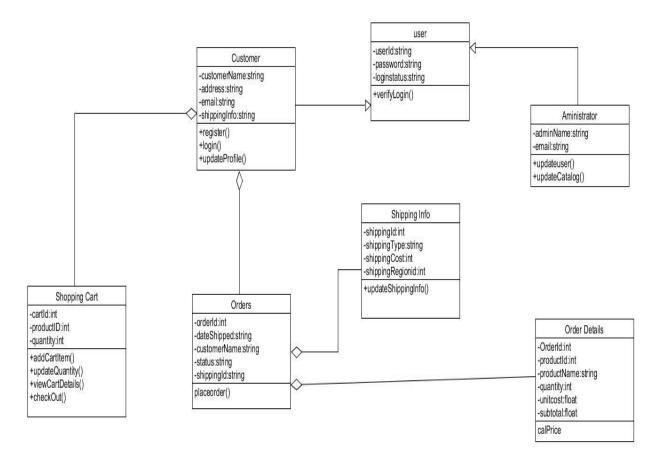
use case is a user activity in the system. It consist of two components,

- 1 Actor: Actors are represented with a label naming actors role. There may be multiple actors in a diagram.
- 2 Use case: Represented as ellipse with a label inside, naming the use case.

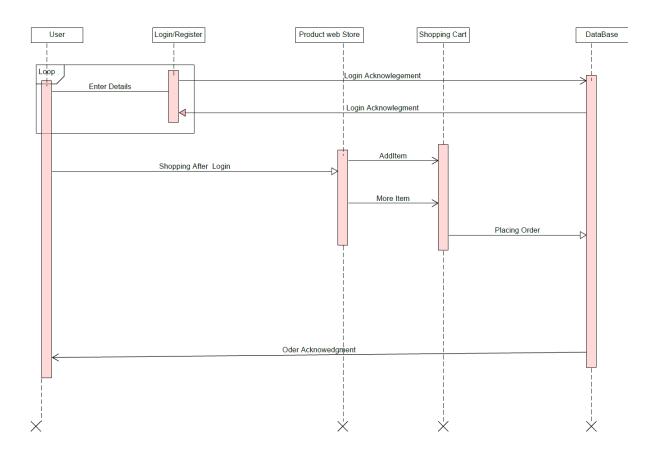
There may be multiple use cases in a diagram.

Actors represent the role that a user might play where each role is represented separately. Actor and Use case names must be unique with in a diagram. A use case describe the activity that is possible. It have several instances of activity throughout it's life time. In JeanStation application user need to login first before he/she could order and purchase any desired apparels.

4.2ClassDiagram



4.3 Sequence Diagram



TECHNOLOGIES USED IN PROJECT

- Java 11
- Spring Boot
- Maven
- Spring Security
- Spring Data JPA
- JWT Authentication
- Hibernate
- Bootstrap
- MySql-Database

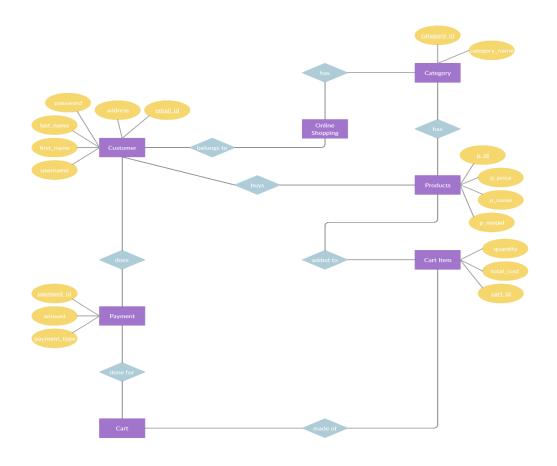
Limitations

- Issues of security
- Technical glitch
- Delay in the delivery
- You can't touch the product
- Lack of interaction
- Returning the product

DATABASE DESIGN OF PROJECT

6.1 ER Diagrams

An entity relationship diagram (ERD), also known as an entity relationship model, is a graphical representation that depicts relationships among people, objects, places, concepts or events within an information technology system.



SCOPE OF FUTURE RESEARCH

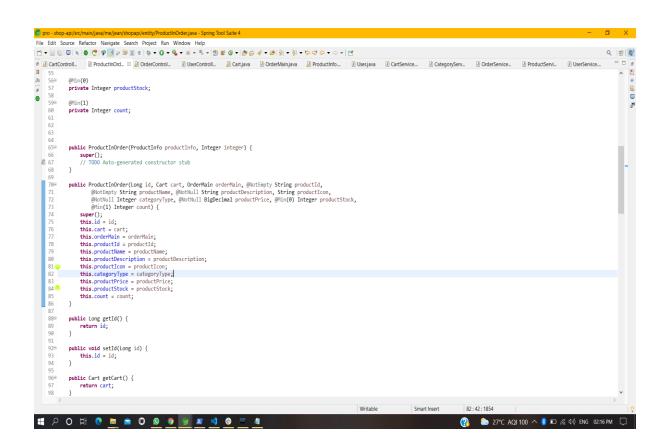
- Artificial Intelligence: Companies are now able to gather and investigate data in real-time thus facilitating competence and efficiency in the business. Machines itself are assisting businesses by performing all routine tasks, payments in a quick manner. Chatbots, CRM, internet of things are changing e-commerce domain. AI is connecting customers together and reducing efforts.
- Google's Buy Now Button: 'Buy Now' style button allow eshoppers to search for any products on Google and purchasing can be done using single click only. The button offers customization and thus shopping process becomes flexible online. Thus without any headache product can be availed to the customer in less time.
- App only Approach: App only model is going to be of great use as the future of the internet lies in the mobiles. Mobile technologies are becoming a hub for the customers/ brand engagement creating a holistic experience. App only ecommerce model is proving itself as the best digital solution for business growth over the web.

Working Screenshots

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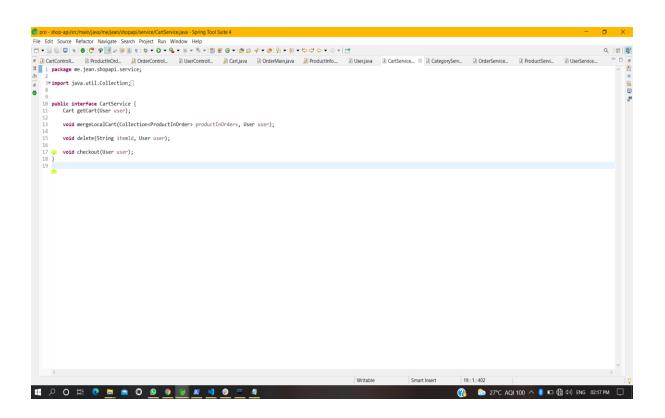
Front end

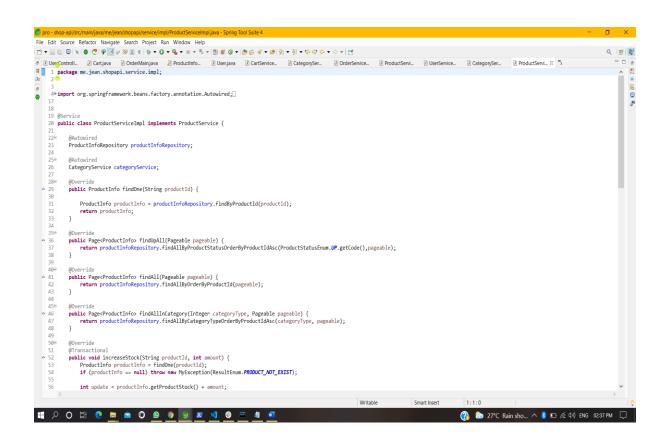
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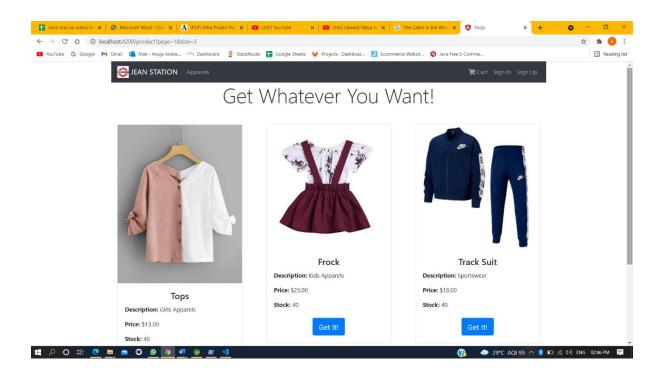


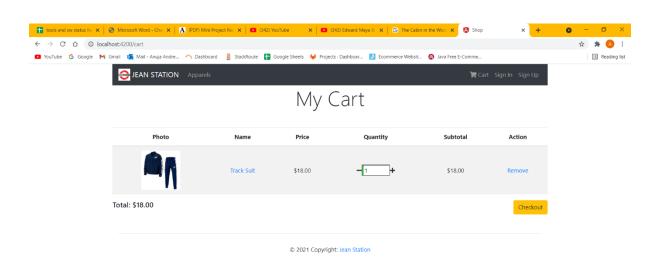
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