CS 353

Fall 19

PROJECT PROPOSAL

Shipping Company Data Management System

- Okan Şen 21202377

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1. Description

The target of this project is to ship products that are ordered online to the customers' addresses. This project will cover the basic online ordering and shipping and delivery process.

There are three types of users; employee, courier and customer. Employee currently has no feature yet. Couriers are to deliver shipped packages which are stored in branches of the company, to given addresses. Customers can order products to be shipped and delivered to them.

First of all, the customer orders a product online.For ease, customers have their nationalities stored, and each product has information under "shipsTo" parameter which stores where a product can be shipped or not. If it can be shipped, the product is turned to a package. Then the gathered packages are added to shipments separated by their cities. The shipments deliver the packages to the company's office branches again, separated by their addresses, for more efficient and less time consuming deliveries. When the packages are gathered in the office branch, several couriers that work in these branches, are assigned to deliver the packages to the addresses. When they arrive, the customer can check and decline the delivery if the package is damaged and report it. If the package is good, the customers should pay for the product and the shipping fees. They can choose to pay via cash or visa.

The customers can also comment on products, and favorite them.

2. Requirements

2.1 Functional Requirements

There are several types of user who have different sets of functionalities.

2.1 Employee

- Employees do not have a role in this diagram yet, but it'll be updated in time.

2.2 Courier

- Couriers store the city information that they work in.
- Each courier is assigned to a branch of the company in their current cities.
- They do the deliveries of the packages to specific addresses, after the shipments arrive to the branches.

2.3 Customer

- Customers can order a product online.
- They can "favorite" a product to check them later or just to show gratitude.
- Customers can comment under products.
- Customers can report a product or a bad shipment.
- Each customer has their nationality stored in the database so that the system can easily know if a specific product can be shipped to that country. (For instance, some products on Amazon cannot be shipped to Turkey.)
- Customers can choose the shipment to be done by ship, plane or van.
- Customers can pay in cash, or visa.

2.2 Non Functional Requirements

2.3.1 Scalability

The system will be able to handle vast amounts of users efficiently and fluently.

2.3.2 Security

The system will be able to protect itself from at least moderate online threat levels.

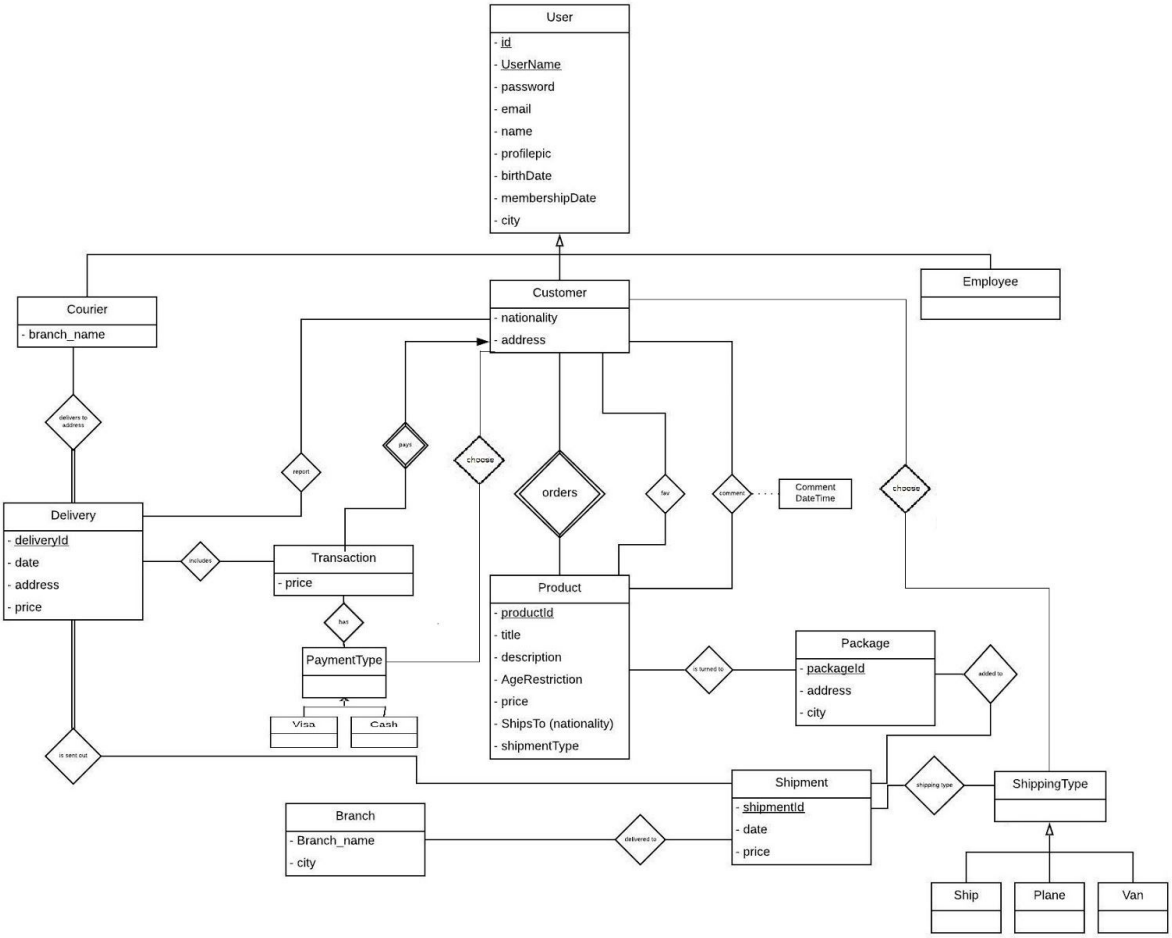
2.3.3 Performance

The system will be able to handle requests, and forms within short amounts of time.

2.3.4 Extensibility

The system will be easy to update and edit for future needs and requirements..

3. Entity Relationship Diagram



4. Website

The documents for this project can be found at https://drive.google.com/open?id=17RZUhiWEDLt_e6VzVRhhm3x3MNYoJWGo