CS 425 Project – Group #3

Home Improvement Shop Project
Presentation Summary

Group #3 Member:

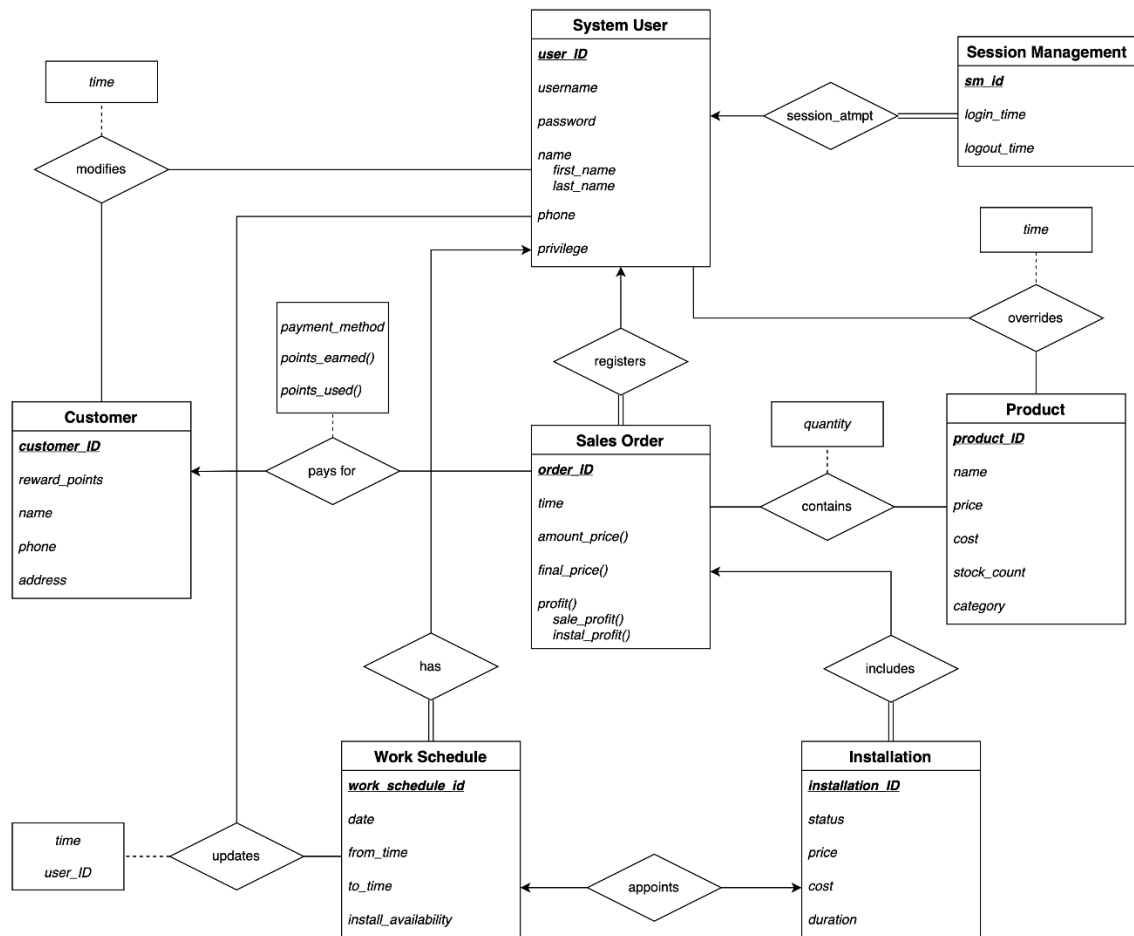>**Fan Tang - A20500789**

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1.   ER Diagram:

2.   Technologies and Tools

Database:
- PostgreSQL

Framework:
- Springboot
- jpa
- Thymeleaf

Language:
- Java

URL: http://localhost:8888

3.   Steps to start up the application(Readme File):

1. Update application.properties datasource, change the database url, username and password.

Update properties

spring.datasource.url=jdbc:postgresql://localhost:5432/postgres

spring.datasource.username=postgres

spring.datasource.password={password set up for postgres}

spring.datasource.driver-class-name=org.postgresql.Driver

2.   Use maven to compile project

shell

mvn install

3.   Install Lombok Plugin

4.   Run StoreApplication.java to start the application.

5.   After starting the application, database schema was created, and we need add a record in the table system user as admin user, and set this admin's id to 0.

6. Open browser (recommend Edge) and access localhost:8888, select the manager role, use the admin username and password created in step3 to login**.**

4.   Demonstration for User Privilege in System

1 – Manager (Privilege Value = 1)

- Create a new Manager / Employee user account
- Update employee's information including working schedule
- Create a new Product
- Override product item's information, i.e., price, quantity
- Register a sale, check whether item is out of stock
- Create new customer, update customer information
- Notification for customers whose reward point reach 100
- Schedule an Installation, check the schedule conflict for selected employee
- Access the business reporting – including
  - *Inventory queries*
  - *Installation count* (Total number for all employees, In Progress Status number of all employees, Complete Status number of all employees, Total number of Login user)
  - *Gross Sale*
  - *Profit from the item sale*
  - *Profit for installation*
  - *Cost and Price diagram for product sale*

2 – Employee (Privilege Value = 2)

- Register a sale, check whether item is out of stock
- Create new customer, update customer information
- Not able to create a new product or update existing product information (Access Denied)
- Schedule an installation, check the schedule conflict for login employee
- Check inventory
- Notification for customers whose reward point reach 100
  Able to see Installation count (Total number for all employees, In Progress Status number of Login user, Complete Status number of Login user, Total number of Login user)

3 – Customer (Privilege Value = 3)

- Update its own information
- Make a purchase, earn 1 point for a dollar spent, then can pay a dollar using 100 points.
- Not able to add new customers, employee
- Not able to modify inventory stock, price …etc.
- Not able to see reports