UITS

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An initiative of PHP Family

University of Information Technology & Sciences

Lab Work

Course Title: Information System Design Lab

Course Code: IT 328

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Worked With: draw.io, Ms Word.

Submitted By

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Batch : 43

Department: IT

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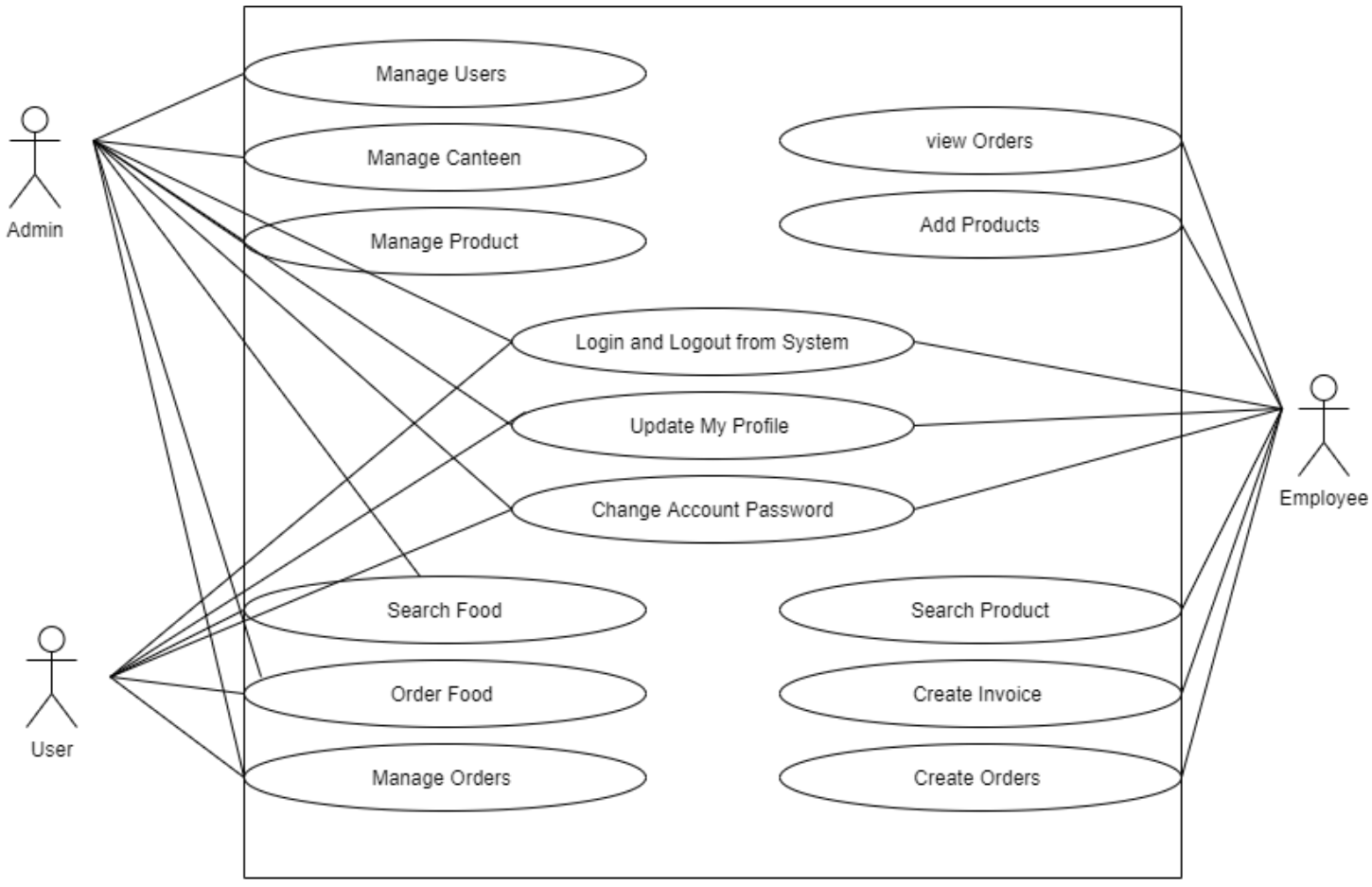
User Stories:

- Create an account
- Manage account.
- Log into the system.
- Navigate the canteen's menu.
- Select an item to their current order.
- Review current order.
- Remove an item
- Provide payment details.
- Place an ode
- Receive confirmation

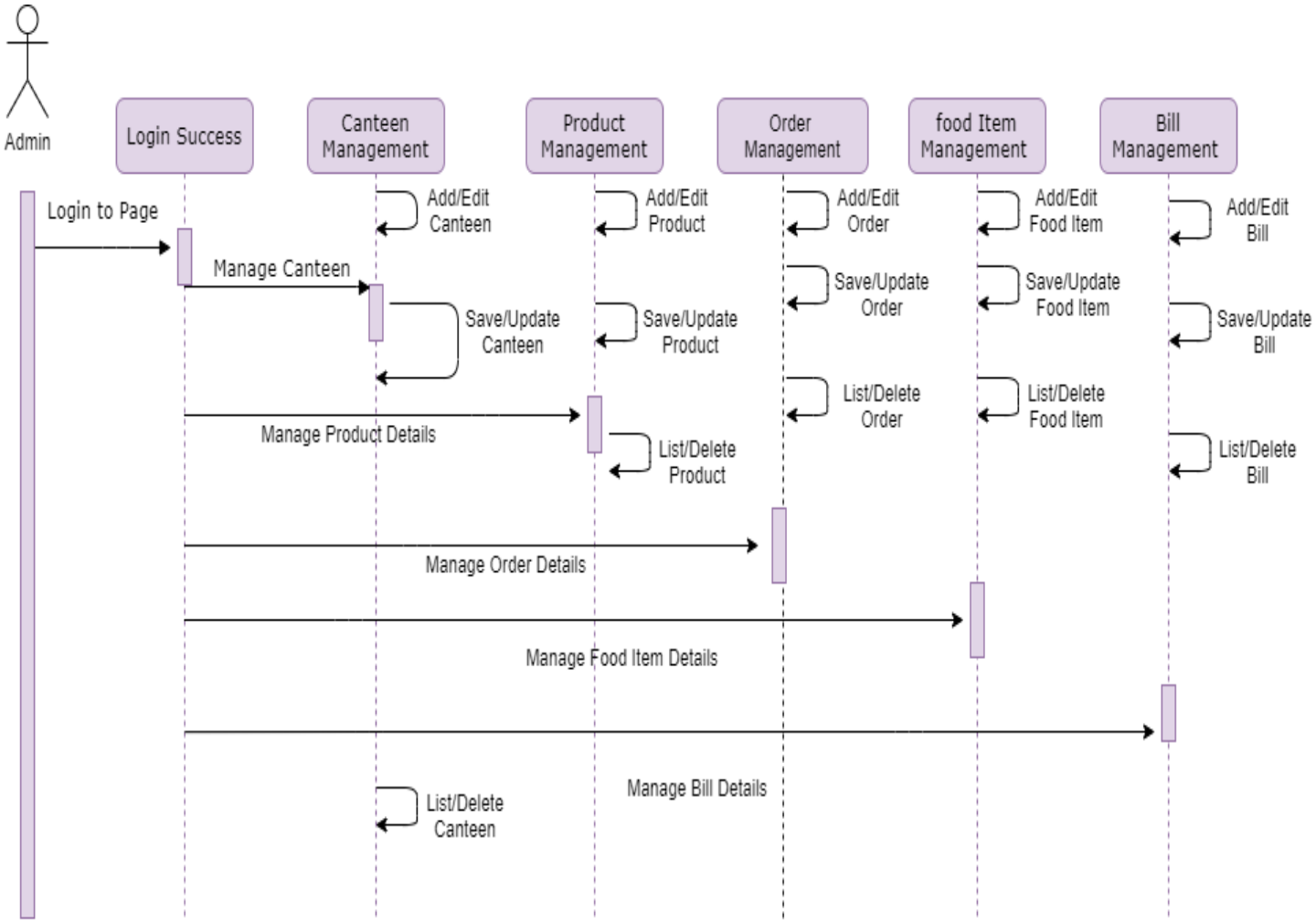
Use case Diagram:



Usecase Diagram of Canteen Management System

Sequence Diagram: In this UML Sequence Diagram of canteen Management System are as follow:

- Food Item Object
- Canteen Object
- Orders Object
- Bill Employee Object
- Products Object

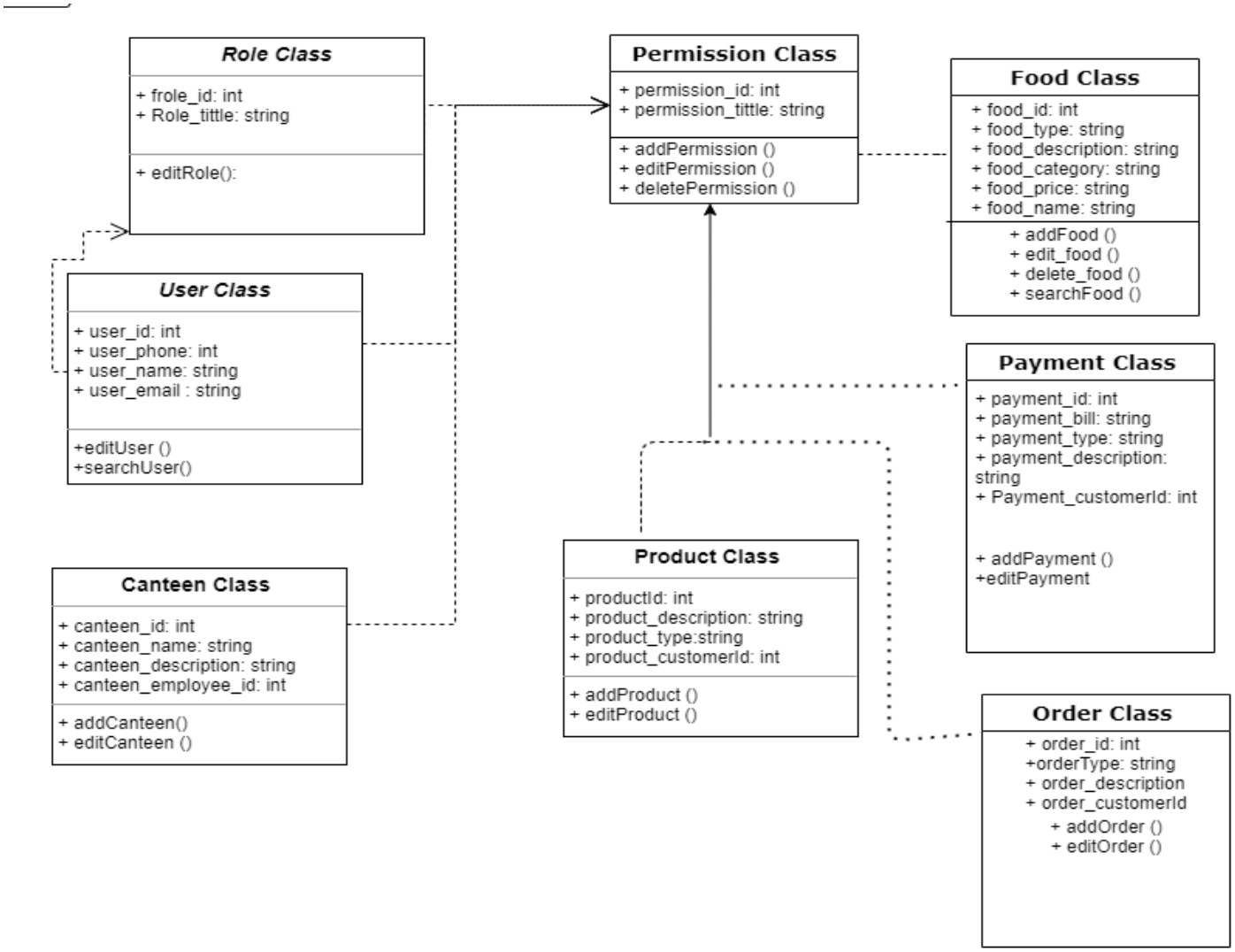


Sequence Diagram of Canteen Management System

Class Diagram:

Classes of Canteen Management System Class Diagram :

- **Canteen Class**: Manage all the Operations of canteen
- **Sales Class**: Manage all the Operations of sales
- **Product Class**: Manage all the Operations of Products
- **Order Class**: Manage all the Operations of orders
- **Item Class**: Manage all the Operations of item
- **Food Class**: Manage all the Operations of Food

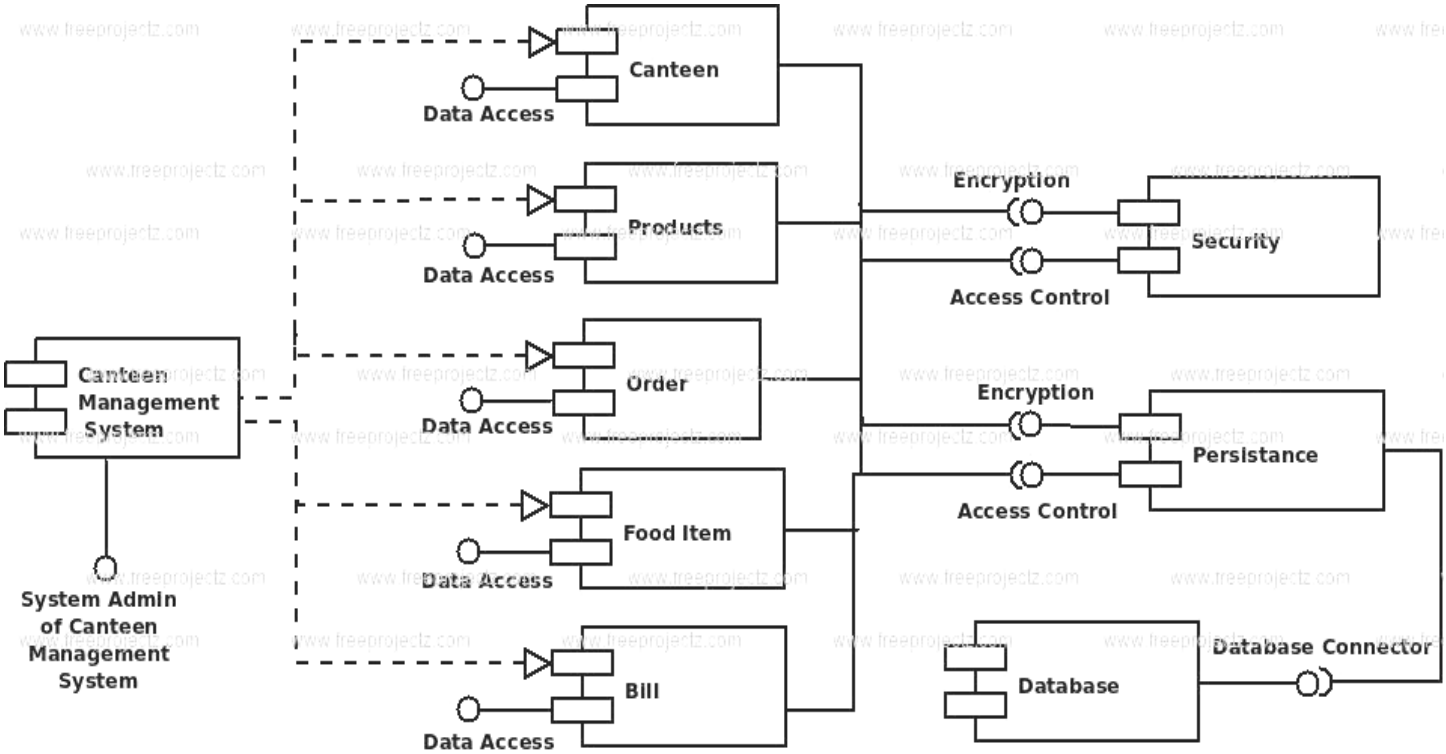


Class Diagram of canteen Management System

Component Diagram:

Features of Canteen Management System Component Diagram

- I can show the models The components of Canteen Management System
- Model the database schema of Canteen Management System
- Model the executables of an application of Canteen Management System
- Model the system's source code of Canteen Management System

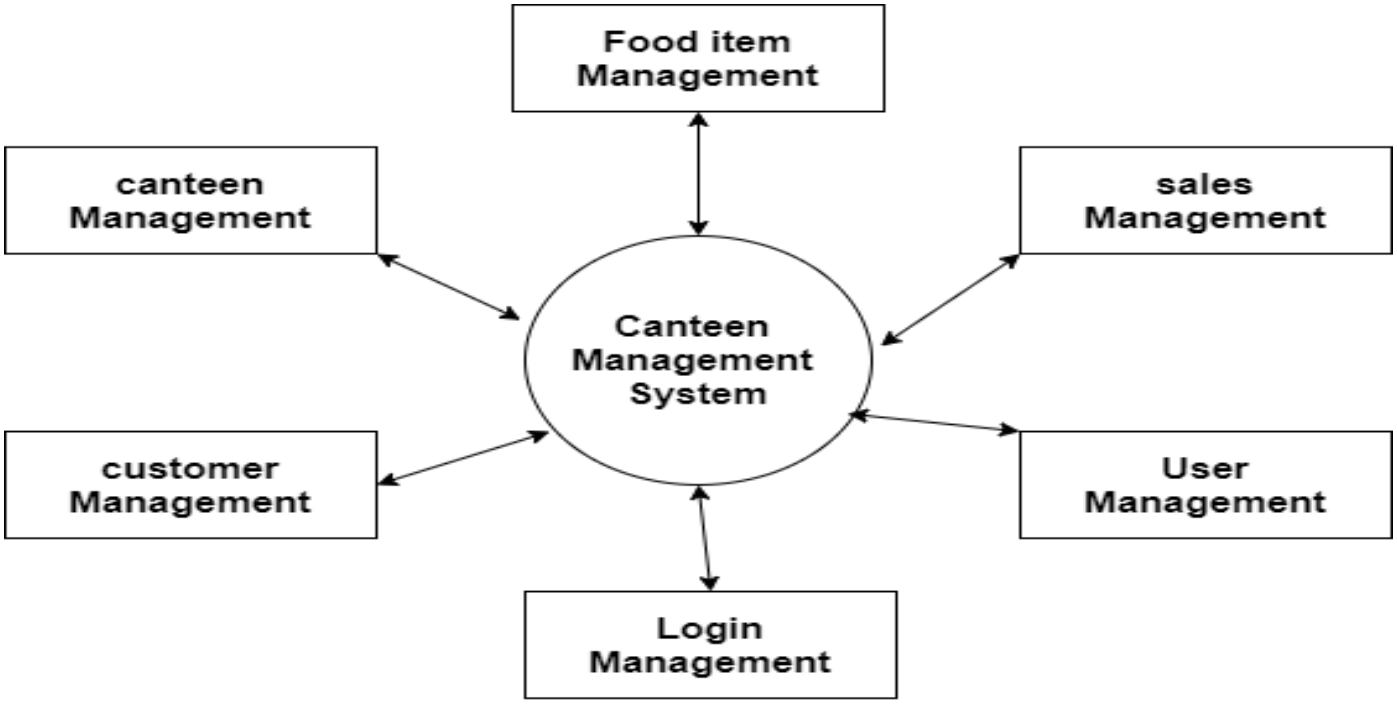


Component Diagram of Canteen Management System

Data Flow Diagram (DFD):

Zero level DFD process flow

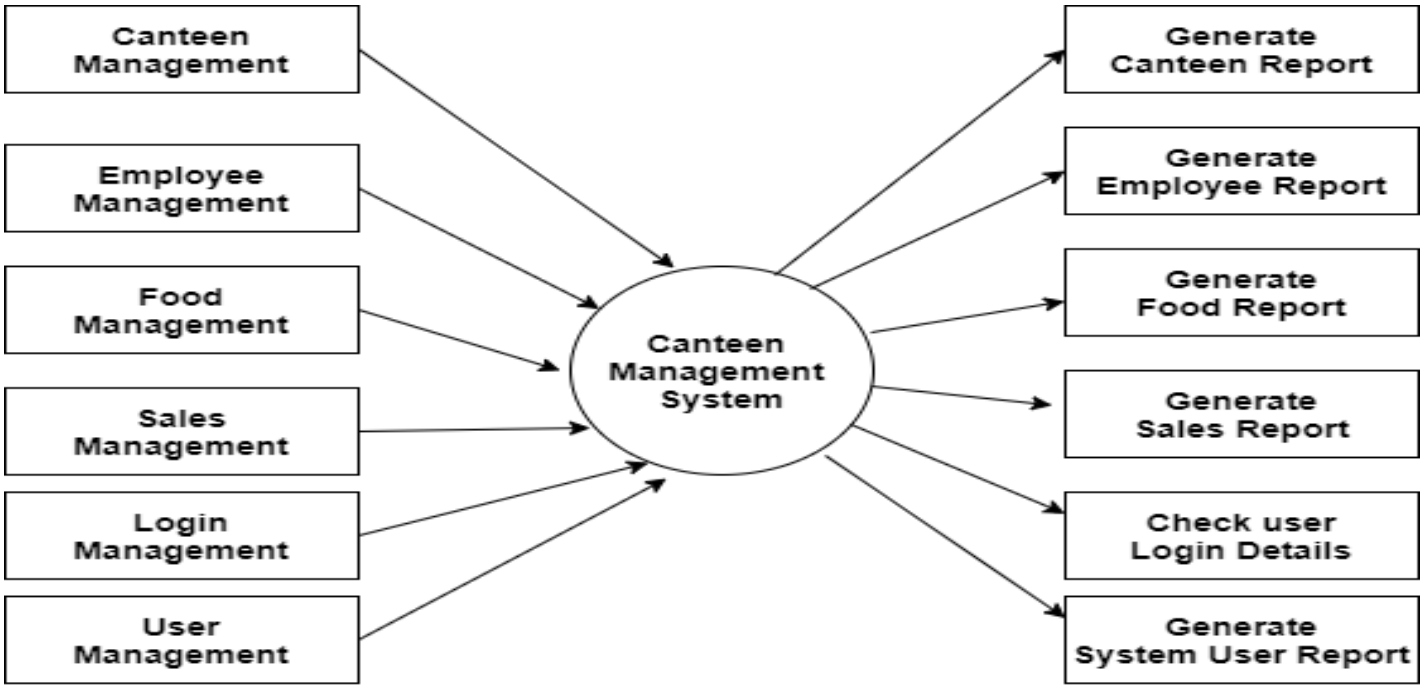
- Managing all the Food
- Managing all the Item
- Managing all the Category
- Managing all the Customer
- Managing all the Record
- Managing all the sales



Zero Levele DFD- Canteen Management System

Output of First level DFD :

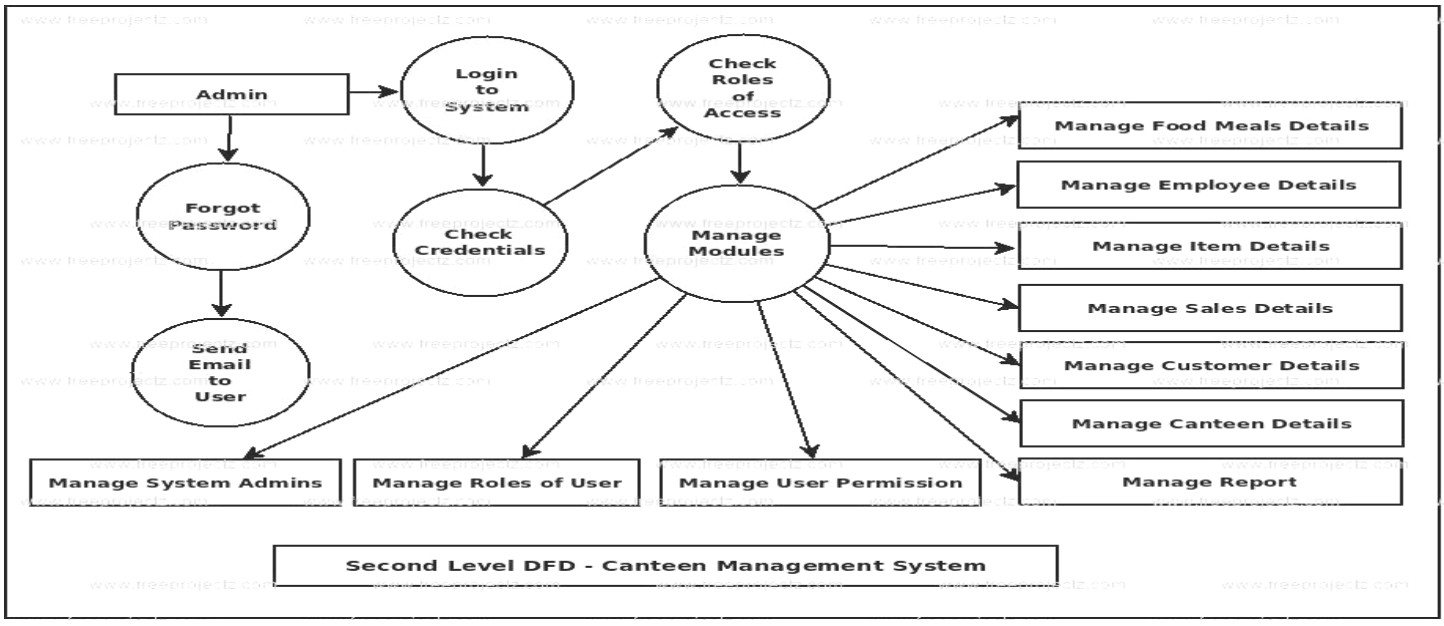
- Processing Food Records and generate report of all Food
- Processing Item Records and generate report of all Item
- Processing category Records and generate report of all category
- Processing Customer Records and generate report of all Customer
- Processing Canteen Employee Records and generate report of all Canteen Employee
- Processing Sales Records and generate report of all Sales



First Level DFD - Canteen Management System

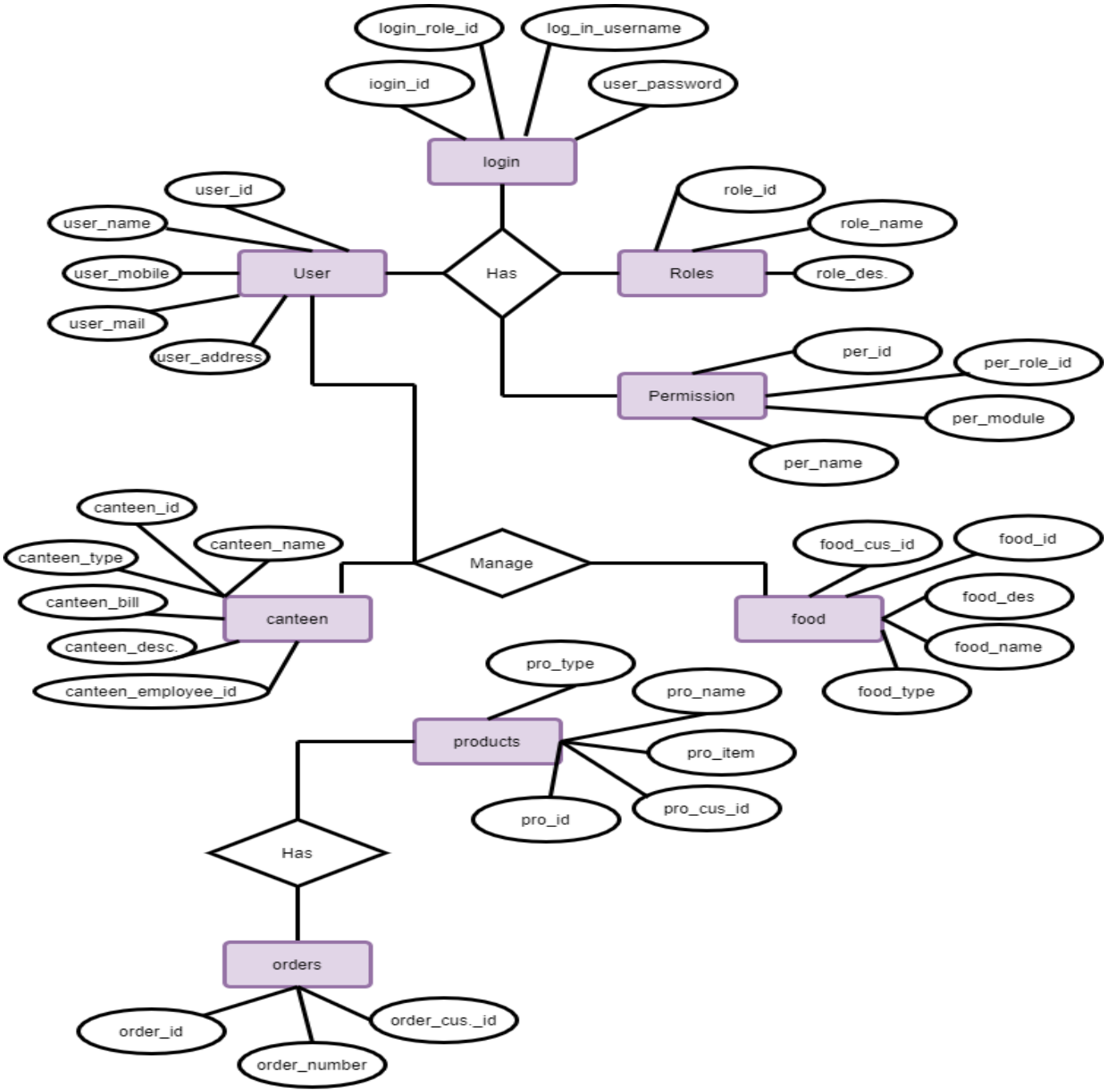
Low Level functionaries of Canteen Management System:

- Admin Login to the system and manage all functionalities of Canteen Manage System
- Admin can add, edit, delete and view the records of Food, category
- Admin can manage all the details of item, customer, and canteen record.
- Admin can also generate reports all o food, item, customer, and canteen record
- Admin can search the details, apply different level of filters, tracks the detailed of item, category, customer, canteen employee`



ER Diagram: Description of Canteen Management System Database:

- The details of Canteen is store into the Canteen tables respective with all tables
- Each entity (Food, Products, Items, Sales, Canteen) contains primary key and unique keys.
- The entity Products, Items has binded with Canteen, Sales entities with foreign key
- There is one-to-one and one-to-many relationships available between Items, Orders, Food, Canteen
- All the entities Canteen, Items, Products, Food are normalized and reduce duplicacy of records
- We have implemented indexing on each tables of Canteen Management System tables for fast query execution



ER Diagram for Canteen Management System

Work Proof: I drew all my Diagram with " Draw.io" website. Here is the Google drive link

- https://drive.google.com/file/d/1Kuv6Vsi0Pau_qhboM-vhHR7My0zxEf1j/view?usp=sharing
- https://drive.google.com/file/d/18cdGPfwjhZB5gfcFwbGbY2VfyBsTYN-T/view?usp=sharing
- https://drive.google.com/file/d/1F428dB2TLPUJPAHR3wlw4i8-siezqtmx/view?usp=sharing
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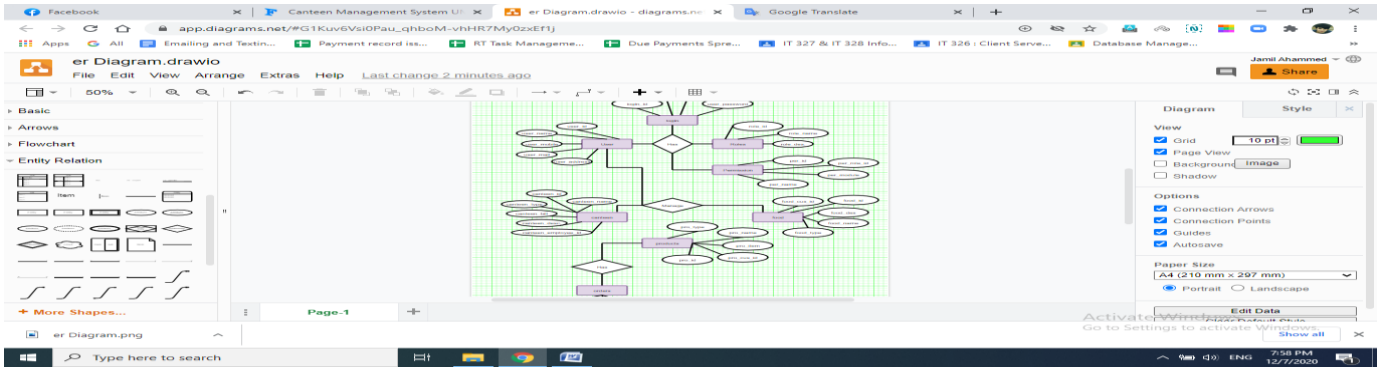
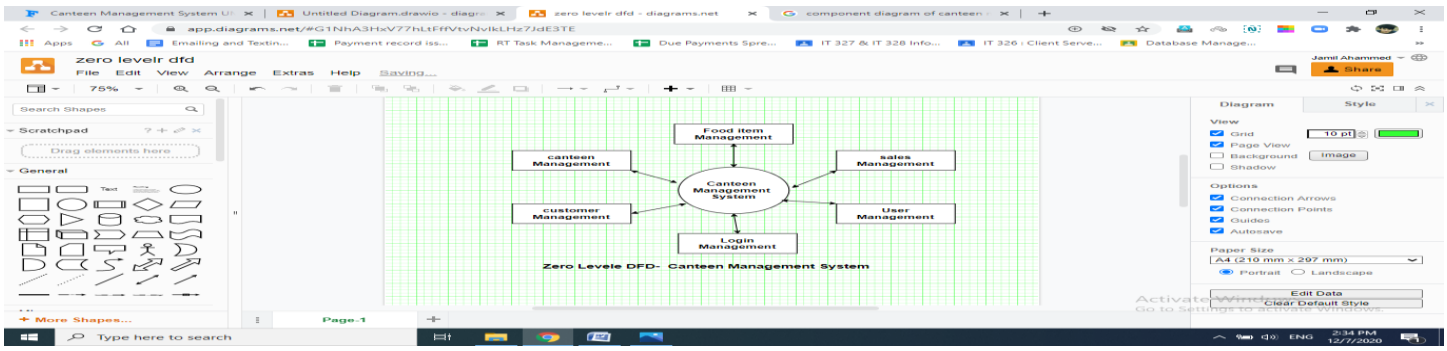
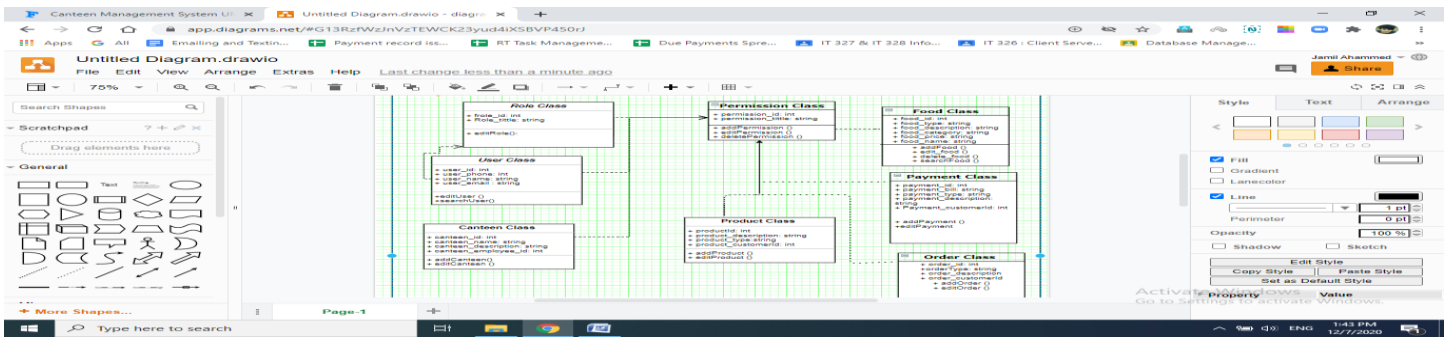
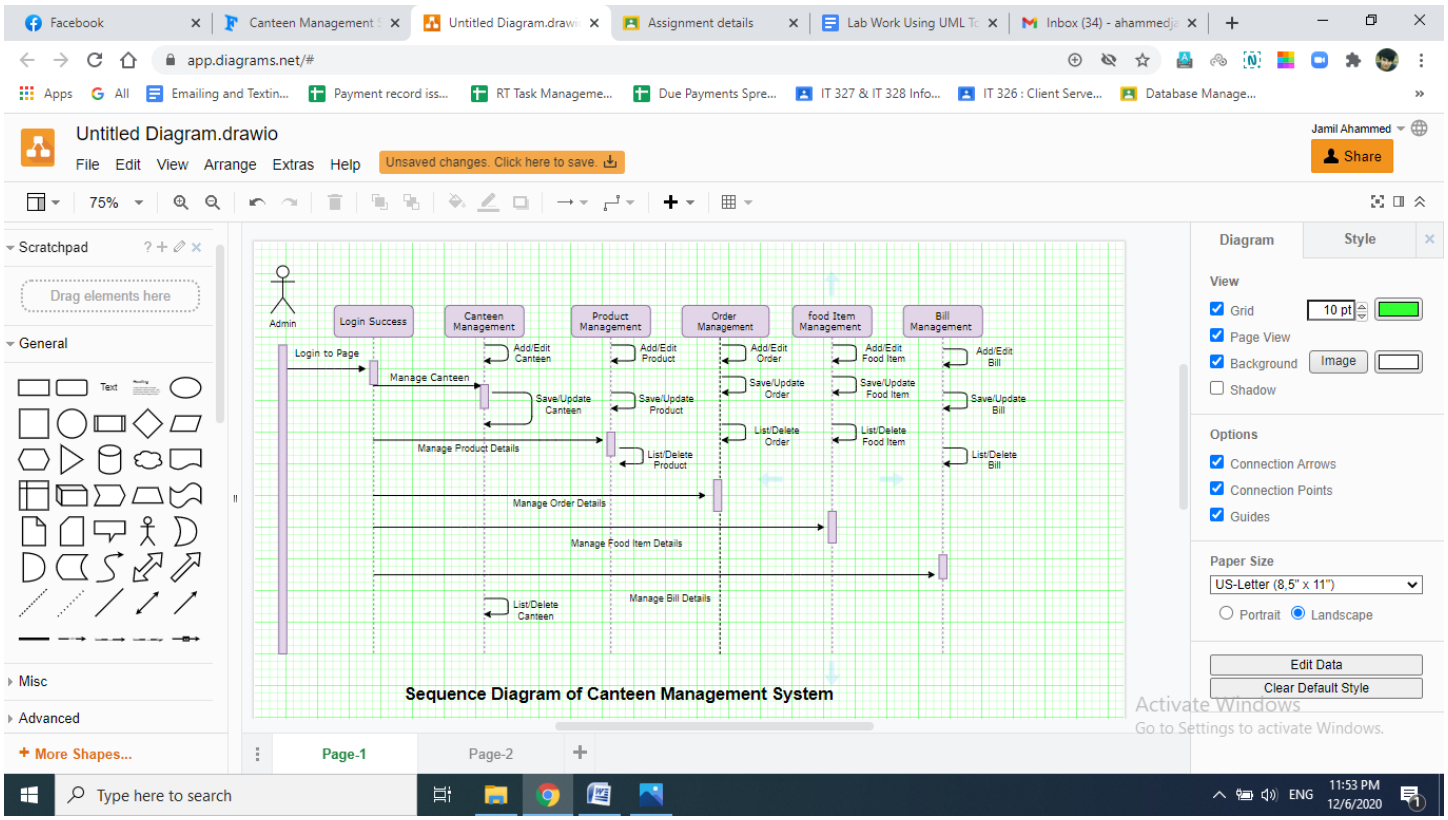
Also some screenshot of my work is given below:





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Share
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Product Management
Order Management
food Item Management
Bill Management
Login to Page
Manage Canteen
Add/Edit Canteen
Save/Update Canteen
Manage Product Details
Add/Edit Product
Save/Update Product
List/Delete Product
Add/Edit Order
Save/Update Order
List/Delete Order
Add/Edit Food Item
Save/Update Food Item
List/Delete Food Item
Add/Edit Bill
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Manage Food Item Details
Manage Bill Details
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Sequence Diagram of Canteen Management System
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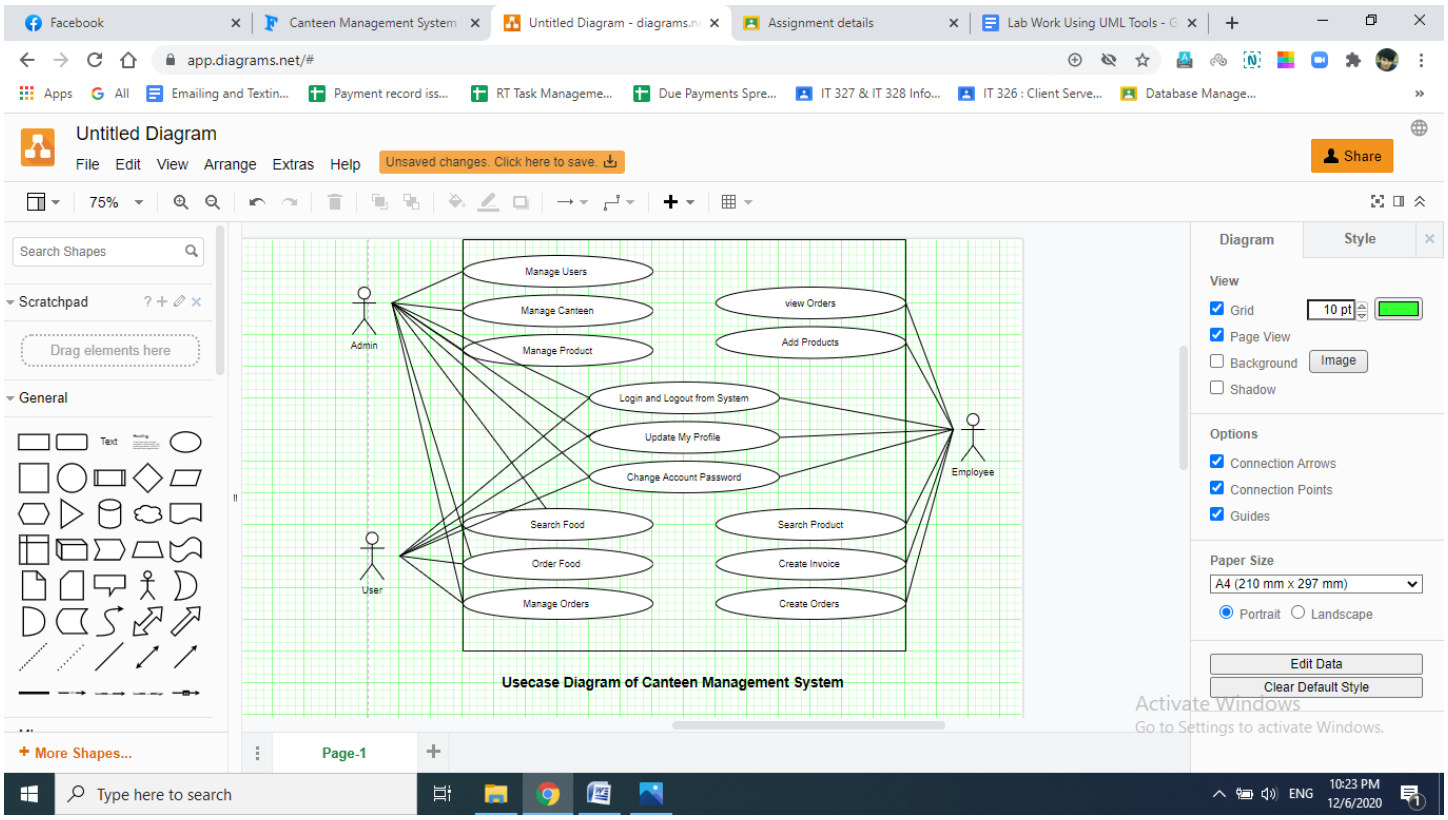
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Share
Admin
Manage Users
Manage Canteen
Manage Product
Login and Logout from System
Update My Profile
Change Account Password
User
Search Food
Order Food
Manage Orders
view Orders
Add Products
Search Product
Create Invoice
Create Orders
Employee
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