AED FINAL PROJECT
Meal Mate
More Than Just a Meal

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GitHub Link: https://github.com/mrunalipawar97/aed_final_project

Introduction:

The Catering Management System is a technology designed to aid catering businesses in effectively managing their operations. It offers several features to help the catering sector, including menu planning, order administration, inventory management, and compliance management. It was made with Java Swing. Location, enterprises, organizations, user accounts, roles, work queues, and work requests are just a few of its many components.

Proposed Solution:

The proposed approach will enable system administrators to construct enterprises, enterprise admins, and locations. There are a total of 4 enterprises in the system: a service enterprise, a food production enterprise, a food quality enterprise, and a food warehouse enterprise. Every company has a separate organization that handles tasks including establishing new organizations, modifying existing ones, and eliminating existing ones. There will be only one enterprise admin for each enterprise. There are various user roles that can be played to carry out the functionality of placing an order, giving comments, and evaluating the system's food quality. The client will place the order, the supervisor will keep track of it, and the catering manager will keep track of the menu.

Functionalities:

The proposed application has multiple roles like Admin, Supervisor, Catering Manager, Co-Ordinator, Nutrition Auditor, Client, Service Staff Manager and Inventory Manager where each role performs their own task. The role of the admin is to register the departments, students, faculties and employers into the system. The system tracks the order request and the nutrition auditor also gives feedback about the food quality. The application allows each organization to manage their own functionalities. The system consists of the following components:

Admin Management: In this Component admin will add enterprises, Enterprise Admin and Location.

Add Enterprise: Admin will add 4 enterprises in system Service Enterprise, Food Production Enterprise, Food Quality Enterprise and Food Warehouse Enterprise.

Add Enterprise Admin: This panel will create admins for each enterprise in System. This will also update the enterprise name and password associated with it.

Add Branch: In this panel a branch is added which is used to register all the organization roles.

Client Sign Up: This component registers the client in the application system.

Service Enterprise Admin Role: This component will view organization based data which are Hospital, Schools, Governments and Offices. This will view the graph per order status and manage clients in that specific organization.

Hospital, School, Government, Offices Role: This component will view order details and it will manage clients in the system.

View Order Details: In this component, admin can view the graphs of all the orders inside the system.

Manage Clients: In this component enterprise admin can delete its own client inside the Organization.

Food Production Admin Enterprise Role: They can add the supervisor, catering manager and coordinators inside the system.

Food Quality Admin Enterprise Role: Food quality enterprise admin will create a Nutrition Auditor in the system and view the graph of nutritional reporting inside the system.

Nutrition Auditor:

Auditing/Reporting: Will Rate the Menu based on the health score and category.
Feedback: Own analysis graph inside the system.

Add Nutrition Auditor Role: Add the nutritional auditor in the system.

Food Warehouse Enterprise Admin Role:

Inventory Managers: add inventory manager
Inventory Store: add inventory store

Inventory Manager Role:

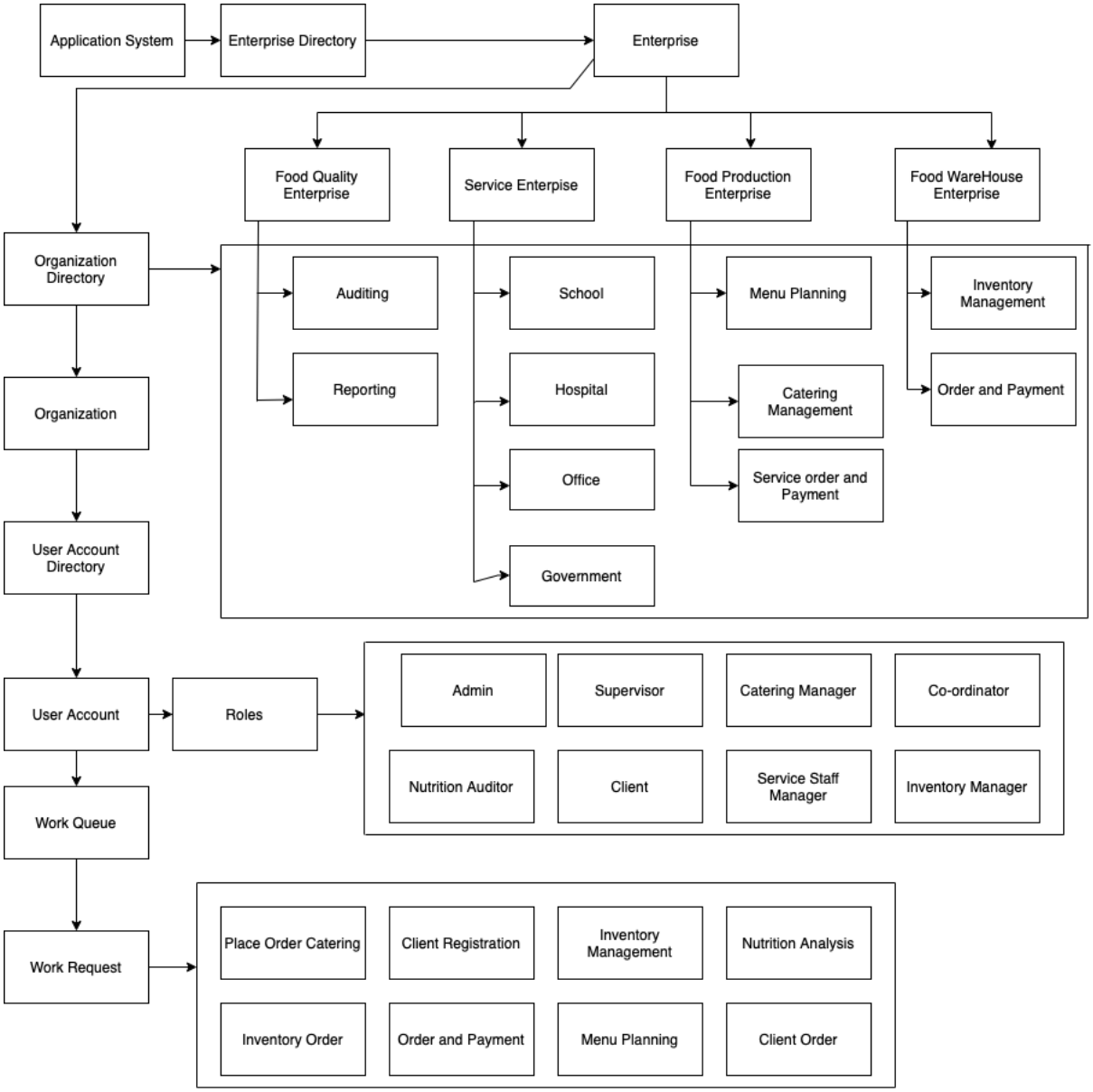
Add Inventory: Add inventory manager
View Inventory Orders: accept or reject inventory Request.

Organizations are:
School
Hospital
Office
Government
Food Production Organization
Food Quality Organization
Food Warehouse Organization

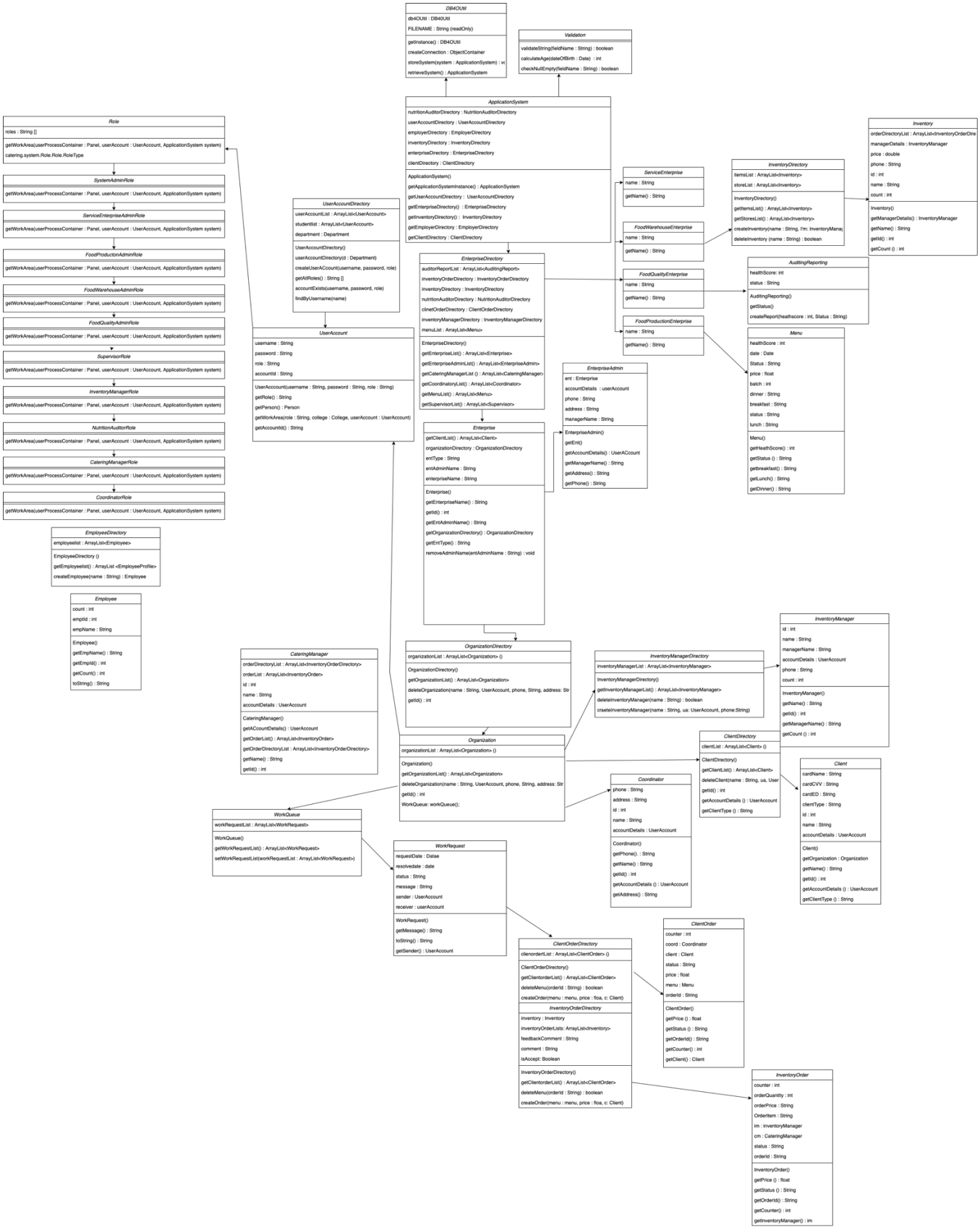
Enterprises are:
Service Enterprise
Food Production Enterprise
Food Quality Enterprise
Food Warehouse Enterprise

Roles are:
System admin
Service admin
Food Production admin
Food Quality admin
Food Warehouse admin
Client
Nutrition Auditor
Supervisor
Catering Manager
Inventory Manager
Coordinator

UML ARCHITECTURE DIAGRAM:



UML CLASS DIAGRAM:



CONCLUSION:

In our Catering management System, clients can place the order based on the menu decided so that they can be delivered to them. This can help further enhance every school, hospital or government to ensure getting our catering service. This solves the problem of order and managing all the canteens on the client side. This application is built through JAVA swing and jChart library is used for graphs and integration.