

DataBase Management System

Semester Project

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Project no 18:

18. Campus Canteen with Meal Plans and QR Billing

Students subscribe to meal plans or pay-per-meal using QR codes. Admins track stock, daily consumption, and vendor performance. Health inspectors audit quality, and results are logged. Students can skip meals and donate them to needy peers. The system tracks leftovers and waste management.

ENTITIES AND ATTRIBUTES

1. Students

STUDENT (Student_ID (Primary Key), Name, Email, Enrollment_Date)

2. Meal Plan

MEALPLAN (MealPlan_ID (Primary Key), Plan_Name, Duration, Price)

3. Meal

MEAL (Meal_ID (Primary Key), Meal_Name, Ingredients, Calories)

4. Waste Logs

WASTE_LOGS (WasteLog_ID (Primary Key), Meal_ID (Foreign Key), Date, Quantity_Wasted)

5. Vender

VENDER (Vender_ID (Primary Key), Name, Contact_Info, Address)

6. Inventory

INVENTORY (Inventory_ID (Primary Key), Item_Name, Quantity, Expiry_Date)

7. Audit-Log

AUDIT_LOG (Log_ID (Primary Key), Vender_ID (Foreign Key), Inspector_ID (Foreign Key),
Remarks)

8. Inspector

INSPECTOR (Inspector_ID (Primary Key), Name, Contact)

9. Transactions

TRANSACTION (TransactionID (Primary Key), Student_ID (Foreign Key), Data, Amount)

ER DIAGRAM:

