Stage 1: CS 234 Group Project

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Chosen Topic: Tea Shop Management System

/ Program Plan /
Specific Classes:
- Main (GUI):
    1. Tea Shop Menu
    2. Employee Sign In
        a. Navigation through different objects
        b. Leads to Reports, Product Management, and Point of Sales
    3. Patron Sign in
        a. Navigation through different objects

- Employee:
    1. Employee
        a. Employee information
            i. Name
            ii. ID #
            iii. Position
            iv. Wage Rates
        b. Work Schedule
        c. Paycheck Report
        d. Clock In/Out
    2. Admin
        a. Adding new employees/deleting current employees
        b. Access to all Employee and Patron Information
        c. Access to Business Reports
        d. CRUD abilities

- Reports:
    1. Daily Sales Report
        a. List of Transactions
        b. Total Net Amount Made
    2. Daily Cost Report
        a. List of all products used
        b. Total amount of products used
    3. Revenue Report
        a. By day, month, and year
            i. All Daily Reports Added through set date range
    4. Cost Report
        a. By day, month, and year
            i. All Daily Cost Reports added through set date range

5. Biweekly Payroll Report
   a. Total cost of staff
6. Budgeting
   a. Makes a Complete Report of all income and costs
      i. Will take information from Revenue Report, Cost Report, Biweekly Payroll Report

Product Management:
1. Vendors, Descriptions, and Prices
2. Order More Product
3. Notify When Product is Low

Point of Sale:
1. List of menu items
2. Checks for sufficient product quantity
3. Completes transactions
4. CRUD abilities

/ Extended Version if project is ahead of schedule /
Specific Classes:
Main (GUI):
4. Tea Shop Menu
5. Employee Sign In
   a. Navigation through different objects
   b. Leads to Reports, Product Management, and Point of Sales
6. Patron Sign in
   a. Navigation through different objects

Employee:
3. Employee
   a. Employee information
      i. Name
      ii. ID #
      iii. Position
      iv. Wage Rates
      v. Contact Information
   b. Work Schedule
   c. Paycheck Report
   d. Clock In/Out
4. Admin
   a. Overriding Features
   b. Hiring/Firing
   c. System Management
      i. Price Changing

        ii. Policies

        iii. Training Material

    d. Access to all Employee and Patron Information

    e. Access to Business Reports

    f. CRUD abilities

Patron:

1. Patron Information
    a. Name
    b. Phone Number
2. Track Previous Purchases
3. Leave Feedback
4. Promotions, Coupons, and Loyalty Program

Reports:

7. Daily Sales Report
    a. List of Transactions
    b. Total Net Amount Made
8. Daily Cost Report
    a. List of all products used
    b. Total amount of products used
9. Revenue Report
    a. By day, month, and year
        i. All Daily Reports Added through set date range
10. Cost Report
    a. By day, month, and year
        i. All Daily Cost Reports added through set date range
11. Biweekly Payroll Report
    a. Total cost of staff
12. Budgeting
    a. Makes a Complete Report of all income and costs
        i. Will take information from Revenue Report, Cost Report, Biweekly Payroll Report

Product Management:

4. Vendors, Descriptions, and Prices
5. Order More Product
6. Notify When Product is Low

Point of Sale:

5. List of menu items
6. Checks for sufficient product quantity
7. Completes transactions
8. CRUD abilities