B. Choose 2 profile entries, 2 main transaction, and 2 report generation of your proposal and create the following designs.

**A. Algorithm**

**2 PROFILE ENTRIES**

1. **ADDING A MEAL**

BEGIN

ADMIN LOGS IN

DISPLAY “Add Meal Section”

DISPLAY “Enter Meal Name:”

GET MealName

DISPLAY “Enter Description:”

GET MealDescription

DISPLAY “Enter Price:”

GET MealPrice

DISPLAY “Upload Meal Picture(JPG, PNG):”

GET MealPicture

VALIDATE MealName, MealDescription, MealPrice, MealPicture

IF VALID THEN

SAVE MealName, MealDescription, MealPrice, MealPicture TO Database

DISPLAY “Meal added successfully!”

ELSE

DISPLAY “Error: Please fill in all fields correctly.”

ELSEIF

END

1. **ADDING A DISCOUNT/PROMO**

BEGIN

ADMIN LOGS IN

DISPLAY “Add Discount/Promo Section”

DISPLAY “Enter Promo Code:”

GET PromoCode

DISPLAY “Enter Discount Type (Percentage or Fixed Amount):”

GET DiscountType

DISPLAY “Enter Discount Value:”

GET DiscountValue

DISPLAY “Enter Start Date (YYYY-MM-DD):”

GET StartDate

DISPLAY “Enter Expiry Date (YYYY-MM-DD):”

GET ExpiryDate

VALIDATE PromoCode, DiscountType, DiscountValue, StartDate, ExpiryDate

IF PromoCode IS UNIQUE AND VALID THEN

SAVE PromoCode, DiscountType, DiscountValue, StartDate, ExpiryDate TO Database

DISPLAY “Promo added successfully!”

ELSE

DISPLAY “Error: Invalid or duplicate promo code.”

ENDIF

END

**2 MAIN TRANSACTION**

1. **Stock Management( Stock in and Stock Out)**

BEGIN

ADMIN LOGS IN

DISPLAY “Stock Management”

DISPLAY “Select Action: 1. Stock In | 2.Stock Out”

GET Choice

IF choice = “1” THEN

DISPLAY “Enter Item Name:”

GET ItemName

DISPLAY “Enter Quantity to Add:”

GET QUANTITY

UPDATE InventoryDatabase ADD Quantity TO ItemName

DISPLAY “Stock successfully added!”

ELSE IF Choice = “2” THEN

DISPLAY “Enter Item Name:”

GET ItemName

DISPLAY “Enter Quantity to Deduct:”

GET Quantity

CHECK IF Quantity < CurrentStock

IF TRUE THEN

UPDATE InventoryDatabase SUBTRACT Quantity FROM ItemName

DISPLAY “ Stock successfully deducted!”

ELSE

DISPLAY “Error: Not enough stock!”

ENDIF

ELSE

DISPLAY “Invalid choice!”

ENDIF

END

1. **ORDER PROCESSING**

BEGIN

DISPLAY “Customer Online Ordering System”

DISPLAY “Menu:”

FETCH MealList FROM Database

FOR EACH Meal IN MealList

DISPLAY Meal.Name, “ – Price”, Meal.Price

ENDFOR

DISPLAY “Enter Meal ID to Order:”

GET MealID

DISPLAY “Enter Quantity:”

GET Quantity

CHECK IF MealID EXIST IN Menu

IF TRUE THEN

ADD MealID AND Quantity TO Cart

DISPLAY “Meal added to cart!”

ELSE

DISPLAY “Invalid Meal ID!”

ENDIF

DISPLAY “Apply Promo Code? (Yes/No)”

GET Response

IF Response = “Yes” THEN

DISPLAY “Enter Promo Code:”

GET PromoCode

VALIDATE PromoCode

IF VALID THEN

APPLY DISCOUNT

DISPLAY “Discount Applied!”

ELSE

DISPLAY “Invalid Promo Code!”

ENDIF

ENDIF

DISPLAY “Proceed to Payment? (Yes/No)”

GET PaymentConfirm

IF PaymentConfirm = “Yes” THEN

PROCESS PAYMENT

IF PAYMENT SUCCESSFUL THEN

UPDATE InventoryDatabase (Stock Out for Ordered meals)

DISPLAY “Order Confirmed! Thank you!”

ELSE

DISPLAY “Payment Failed. Try Again!”

ENDIF

ELSE

DISPLAY “Order Cancelled.”

ENDIF

END

**2 REPORT GENERATION**

1. **Sales Report**

BEGIN

ADMIN LOGS IN

DISPLAY “Select Sales Report Type: Daily, Weekly, Monthly”

GET ReportType

FETCH CompleteOrders FROM Database WHERE OrderDate MATCHES ReportType

CALCULATE TotalSales = SUM(OrderAmount)

IDENTIFY TopSellingItems BASED ON OrderFrequency

DISPLAY “Sales Report”

DISPLAY “Total Sales: “, TotalSales

DISPLAY “Number of Orders:” , COUNT (CompleteOrders)

DISPLAY “Top-Selling Items:”

FOR EACH Item IN TopsellingItems

DISPLAY Item.Name, “ – Sold:”, Item.SalesCount

ENDFOR

END

1. **Inventory Report**

BEGIN

ADMIN LOGS IN

DISPLAY “Generating Inventory Report”

FETCH InventoryData FROM Database

DISPLAY “Inventory Report”

FOR EACH Item IN InventoryData

DISPLAY “Item: “ , Item.Name, ” | Stock: “, Item.Quality

IF Item.Quality<Item.MinimumStock THEN

DISPLAY “Warning: Low Stock on “, Item.Name

ENDIF

ENDFOR

END

**B. FLOWCHART**

1.  **ADDING A MEAL**

Admin Logs In

Enter Ingredients

Enter Price

Enter Description

Enter Meal Name

Select meal section

No

Yes

Save to Database

Are inputs Valid?

Validate Inputts Logs In

Fill all Fields

Meal Added

**2. ADDING A DISCOUNT/PROMO**

Promo Added

Save to Database

Invalid, Duplicate

Is the Promo Code Unique And Valid?

Enter Start Date

Enter Expiry Date

Validate Promo Code, Type, Value, Dates

Enter Discount Value

Enter Discount Type

Enter Promo Code

Select Discount section

Admin Logs In

No

Yes

**Stock Management**

Enter Quantity to Deduct

Check if the Stock is Enough?

Yes

No

Yes

Select Action:

Stock in

Stock out

Not Enough Stock

Stock Deducted

Deduct from Inventory

Yes

Enter Item Name

Stock Added

Update Inventory Database

Enter Quantity to add

Stock Out



Stock In

Enter Item Name

Click Stock Management

Admin Logs In

Sales Report

FOR EACH Item in TopSelling Display Item Name and Sales

Top Selling Items

Number of Complete Orders

Total Sales Amount

Sales Report

Identify Top selling Items BASED on OrderFrequency

Calculate Total Sales SUM (OrderAMount)

Fetch CompleteOrders WHERE OrderDate MATCHES Type

Get Report Type Input

Select sales Report Type:

Daily, Weekly, Monthly

Admin Logs In

**Inventory Report**

Inventory Report

Fetch InventoryData From Database

Is Item.Quantity

< Item.MinimumStock

Admin Logs In

Generating Inventory Report

FOR EACH Item IN Inventory DISPLAY item name and Stock

No

Yes

Low Stock on Item.name