SIMPLE SYSTEM-DOABLE APPROACHES

1. Predict Sales Targets (Simple Calculation-Based Forecast)

You can generate sales target predictions using simple arithmetic, all computed in your backend and displayed on a chart or dashboard.

Concept:

Predict the next month's sales using average or growth rate based on recent data.

Methods You Can Implement:

a. Average of Last 3 MonthsPredicted Sales = (Month1 + Month2 + Month3) / 3

Example:

July = ₱50,000

Aug = ₱55,000

Sept = ₱60,000

Predicted October = (50000 + 55000 + 60000) / 3 = ₱56,667

b. Percentage Growth

Growth Rate = ((CurrentMonth - LastMonth) / LastMonth) × 100 Predicted Next = CurrentMonth × (1 + GrowthRate/100)

Example:

August = ₱55,000

September = ₱60,000

Growth Rate = $(60,000 - 55,000) / 55,000 \times 100 = 9.09\%$

Predicted October = 60,000 × (1 + 0.0909) = ₱65,454

System Display Ideas:

Show a "Predicted Sales" box on the dashboard.

Add a chart comparing "Last 3 Months" vs "Predicted."

Use a color indicator (green ↑ if growth, red ↓ if decline).

1 2. Analyze Sales Trends (Simple Chart-Based Analysis)

Instead of advanced analytics, you can analyze trends with comparisons and basic statistics from your sales database.

Concept:

Use basic SQL queries to compare months, products, or categories, and visualize them.

- Methods You Can Implement:
- a. Month-to-Month ComparisonSELECT MONTH(date) AS month, SUM(total_sales) AS totalFROM salesGROUP BY MONTH(date);

Display each month's total in a bar or line chart.

b. Growth or Decline PercentageChange = CurrentMonth - PreviousMonthPercentChange = (Change / PreviousMonth) × 100

Display message:

"Sales increased by +12.3% from last month."

c. Category or Product TrendsSELECT category, SUM(total_sales) AS totalFROM salesGROUP BY category;

Display top-selling categories or products using charts or leaderboards.

System Display Ideas:

Line chart: Monthly totals (Chart.js / ApexCharts)

Pie chart: Sales by product category

Badge or label: "Top Product: Product A (₱25,000 Sales)" 3. Backup and Restore Data (Manual Export/Import) Keep it simple: let admins export data as .CSV files and import it back when needed. Concept: Use manual backup/restore buttons — fast, safe, and easy to test. Methods You Can Implement: a. Export Data (Backup) When "Export" is clicked: SELECT * FROM sales INTO OUTFILE 'sales_backup.csv' FIELDS TERMINATED BY ',' ENCLOSED BY "" LINES TERMINATED BY '\n'; Or programmatically (in Java/PHP/Python): Read records from the database. Write them to a .csv file. Allow the user to download it. b. Import Data (Restore) When "Import" is clicked: User uploads a .csv file. System parses each line. Inserts records into the sales table: LOAD DATA INFILE 'sales backup.csv' INTO TABLE sales FIELDS TERMINATED BY ','

ENCLOSED BY ""

LINES TERMINATED BY '\n';

• System Display Ideas:

Backup Page:

Button: "Export Sales Data"

Button: "Import Backup File"

Backup History Log:

All these methods:

Require only basic SQL and arithmetic

Work perfectly in Java/PHP web apps

Can be done within 1–2 sprints

Are displayable on your dashboard using charts, tables, or text indicators