

Daily Report Form - Developer Documentation

Project Overview

This is a **Daily Sales & Financial Report Form** for Phil's Philly Steaks restaurant chain. The system captures daily transactions, sales data, and performs automatic financial calculations for end-of-day reconciliation.

File Structure & Architecture

1. Form Layout Structure



Business Logic & Calculations

Core Formulas Identified:

1. Transaction Totals

```
javascript
// Total Paid Outs = Sum of all transaction amounts
totalPaidOuts = sum(transactionAmounts)
// Example: Icee Company (204) = 204 total
```

2. Sales Calculations

javascript

```
// Net Sales = Gross Sales - Coupons - Adjustments
netSales = grossSales - couponsReceived - adjustments
// Example: 1126.45 - 3.92 - 4.32 = 1118.21

// Tax Calculation (Texas rate: 8.25%)
tax = netSales - (netSales / 1.0825)
// Example: 1118.21 - (1118.21 / 1.0825) = 85.22

// Sales (Pre-tax) = Net Sales - Tax
salesPreTax = netSales - tax
// Example: 1118.21 - 85.22 = 1032.99
```

3. Cash Reconciliation

javascript

```
// Cash To Account For = Net Sales - Paid Outs - Credit Cards
cashToAccountFor = netSales - totalPaidOuts - creditCards
// Example: 1118.21 - 204 - 504.91 = 409.30

// Short/Over Calculation
if (actualDeposit < cashToAccountFor) {
  short = actualDeposit - cashToAccountFor // Negative value
  over = 0
} else {
  short = 0
  over = actualDeposit - cashToAccountFor // Positive value
}
// Example: 409 < 409.30, so Short = -0.30, Over = 0
```

Data Model

Transaction Object

typescript

```
interface Transaction {  
  id: number;  
  company: string;  
  transactionType: 'Food Cost' | 'Rent' | 'Accounting' | 'Taxes' | 'Other';  
  amount: number;  
}
```

// Example:

```
const transaction = {  
  id: 1,  
  company: "Icee Company",  
  transactionType: "Food Cost",  
  amount: 204.00  
}
```

Daily Report Object

typescript

```
interface DailyReport {  
    // Header Info  
    restaurantName: string;  
    address: string;  
    phone: string;  
    reportDate: Date;  
    pageNumber: number;  
  
    // Environmental Data  
    weather: string;  
    holidayEvent: string;  
  
    // Transactions  
    transactions: Transaction[];  
  
    // Sales Data  
    projectedSales: number;  
    grossSales: number;  
    amountOfCancels: number;  
    amountOfVoids: number;  
    numberOfNoSales: number;  
  
    // Coupons & Adjustments  
    totalCoupons: number;  
    couponsReceived: number;  
    adjustmentsOverrings: number;  
  
    // Customer Data  
    totalCustomers: number;  
  
    // Payment Data  
    creditCards: number;  
    actualDeposit: number;  
  
    // Calculated Fields (Auto-computed)  
    totalPaidOuts: number;    // Calculated  
    netSales: number;        // Calculated  
    tax: number;              // Calculated  
    salesPreTax: number;      // Calculated  
    cashToAccountFor: number; // Calculated  
    short: number;            // Calculated  
    over: number;             // Calculated
```

```
averageTicket: number; // Calculated
}
```

Implementation Guide

1. Database Schema

```
sql

-- Daily Reports Table
CREATE TABLE daily_reports (
  id SERIAL PRIMARY KEY,
  restaurant_name VARCHAR(100),
  report_date DATE NOT NULL,
  weather VARCHAR(50),
  holiday_event VARCHAR(100),
  projected_sales DECIMAL(10,2),
  gross_sales DECIMAL(10,2),
  amount_of_cancels DECIMAL(10,2),
  amount_of_voids DECIMAL(10,2),
  number_of_no_sales INTEGER,
  total_coupons INTEGER,
  coupons_received DECIMAL(10,2),
  adjustments_overrings DECIMAL(10,2),
  total_customers INTEGER,
  credit_cards DECIMAL(10,2),
  actual_deposit DECIMAL(10,2),
  created_at TIMESTAMP DEFAULT NOW()
);

-- Transactions Table
CREATE TABLE transactions (
  id SERIAL PRIMARY KEY,
  daily_report_id INTEGER REFERENCES daily_reports(id),
  transaction_id INTEGER,
  company VARCHAR(100),
  transaction_type VARCHAR(50),
  amount DECIMAL(10,2),
  created_at TIMESTAMP DEFAULT NOW()
);
```

2. API Endpoints

POST /api/daily-reports

```
javascript

// Create new daily report
{
  "restaurantName": "Phil's Philly Steaks - Hulen Mall",
  "reportDate": "2025-08-28",
  "weather": "Sunny",
  "grossSales": 1126.45,
  "transactions": [
    {
      "transactionId": 1,
      "company": "Icee Company",
      "transactionType": "Food Cost",
      "amount": 204.00
    }
  ]
}
```

GET /api/daily-reports/:date

```
javascript

// Retrieve daily report with calculated fields
{
  "id": 1,
  "reportDate": "2025-08-28",
  "grossSales": 1126.45,
  "netSales": 1118.21,    // Calculated
  "totalPaidOuts": 204.00, // Calculated
  "cashToAccountFor": 409.30, // Calculated
  "short": -0.30,        // Calculated
  "over": 0.00           // Calculated
}
```

3. Frontend Implementation (React)

Component Structure

DailyReportForm/

├── components/

| ├── HeaderSection.tsx

| ├── TransactionTable.tsx

| ├── SidePanel.tsx

| ├── SalesSection.tsx

| ├── FinancialSummary.tsx

| └── CalculatedFields.tsx

├── hooks/

| ├── useCalculations.ts

| ├── useDailyReport.ts

| └── useTransactions.ts

├── services/

| └── dailyReportAPI.ts

└── types/

└── dailyReport.ts

Key React Hook - useCalculations.ts

typescript

```

export const useCalculations = (reportData: DailyReportData) => {
  const calculations = useMemo(() => {
    const totalPaidOuts = reportData.transactions
      .reduce((sum, t) => sum + t.amount, 0);

    const netSales = reportData.grossSales -
      reportData.couponsReceived -
      reportData.adjustmentsOverrings;

    const tax = netSales - (netSales / 1.0825);

    const cashToAccountFor = netSales - totalPaidOuts - reportData.creditCards;

    const short = reportData.actualDeposit < cashToAccountFor ?
      reportData.actualDeposit - cashToAccountFor : 0;

    const over = reportData.actualDeposit > cashToAccountFor ?
      reportData.actualDeposit - cashToAccountFor : 0;

    const averageTicket = reportData.totalCustomers > 0 ?
      netSales / reportData.totalCustomers : 0;

    return {
      totalPaidOuts,
      netSales,
      tax,
      salesPreTax: netSales - tax,
      cashToAccountFor,
      short,
      over,
      averageTicket
    };
  }, [reportData]);

  return calculations;
};

```

4. Validation Rules

typescript


```
const validationSchema = {
  grossSales: {
    required: true,
    min: 0,
    type: 'number'
  },
  projectedSales: {
    required: true,
    min: 0,
    type: 'number'
  },
  transactions: {
    required: true,
    minLength: 1,
    validate: (transactions) =>
      transactions.every(t => t.amount >= 0)
  },
  actualDeposit: {
    required: true,
    min: 0,
    type: 'number'
  }
};
```

Key Features to Implement

1. Auto-Calculations

- Real-time calculation updates as user inputs data
- Formula validation and error handling
- Rounding to 2 decimal places for currency

2. Data Validation

- Required field validation
- Numeric field validation
- Business logic validation (e.g., voids can't exceed sales)

3. Data Persistence

- Auto-save functionality
- Draft saving capability

- History/audit trail

4. Reporting Features

- Print-friendly format
- PDF export
- Daily/weekly/monthly summaries

5. Error Handling

- Calculation error detection
- Data inconsistency warnings
- User-friendly error messages

Business Rules & Constraints

1. **Transaction Types:** Limited to predefined categories
2. **Tax Rate:** Fixed at 8.25% (Texas rate)
3. **Currency:** All amounts in USD, rounded to 2 decimal places
4. **Date:** One report per restaurant per day
5. **Negative Values:** Only allowed for voids and adjustments
6. **Cash Reconciliation:** Must balance within \$1.00 tolerance

Deployment Considerations

Environment Variables

```
env

TAX_RATE=0.0825
CURRENCY_LOCALE=en-US
MAX_TRANSACTIONS_PER_DAY=100
CASH_TOLERANCE=1.00
```

Performance Optimization

- Index on `report_date` and `restaurant_name`
- Cache calculated fields
- Implement pagination for transaction history
- Use debouncing for real-time calculations

Sample Test Data

javascript

```
const sampleDailyReport = {
  restaurantName: "Phil's Philly Steaks - Hulen Mall",
  reportDate: "2025-08-28",
  weather: "Sunny",
  projectedSales: 1200.00,
  grossSales: 1126.45,
  amountOfCancels: 12.53,
  amountOfVoids: -136.23,
  numberOfNoSales: 7,
  couponsReceived: 3.92,
  adjustmentsOverrings: 4.32,
  totalCustomers: 45,
  creditCards: 504.91,
  actualDeposit: 409.00,
  transactions: [
    {
      transactionId: 1,
      company: "Icee Company",
      transactionType: "Food Cost",
      amount: 204.00
    }
  ]
};
```

This documentation provides a complete foundation for developers to understand the business logic, implement the calculations, and build a robust daily reporting system.