# PRODUCT STRUCTURE DOCUMENTATION

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# # 4AM Automated Reporting (Dev Version)

This document serves as my core area for notes, and information relating to the structure and functionality of the application.

## # ToDo

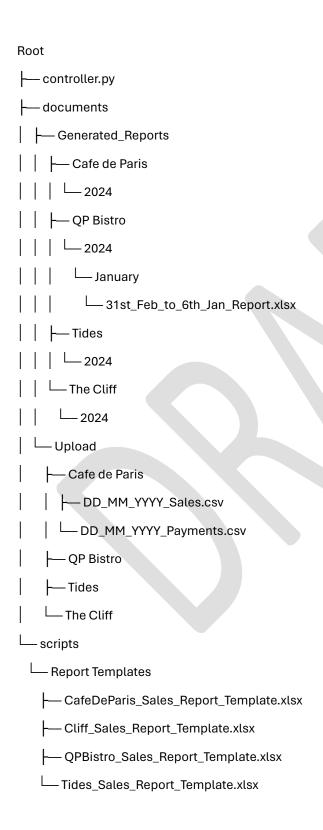
- 1. Setup Folder Structure
- 2. Setup Email File Extraction
- 3. Develop scripts to generate Reports
- 4. Create a web interface for uploading and downloading reports.
- 5. Test and Verify Generated Reporting Data
- 6. Create a database to store generated data.
- 7. Develop script to load data into QuickBooks
- 8. Test and Verify data loaded in QuickBooks
- 9. Document Everything

#### ## Task Breakdown

This section will breakdown the above 8 tasks into their core components and deliverables.

## ### Setup Folder Structure

For now, the tentative folder structure is as follows:



#### ### Setup Email File Extraction

A script should be created to do the following:

- Be registered to a specific email address
- Locate email containing most recent reports
- Download the attached excel files
- Place the files into their correct folders, doing any renaming as necessary.

## ### Develop Scripts to Generate Reports

Upon retrieving the Sales and Billing reports from the emails, and them being placed in their correct folder, the script should then do the following:

- 1. For each company, read the data from the latest Sales and Billing excel spreadsheets.
- 2. Run calculations and store the following information:
- Total US and BBD spent by Payment Type (Visa, Master, Prepaid, Cash, etc.)
- Total US and BBD spent by Payment Type by Meal Type (Breakfast, Lunch, Dinner).
- Total BBD spent by sub-category by Meal Type (non-alcoholic, wine, water, food, etc.) by Breakfast, Lunch and Dinner
  - The number of guests by Meal Type (Breakfast, Lunch, Dinner)
  - Service Charge, VAT, Government Levy, Deposit
- 3. This stored information should then be written to a spreadsheet following the restaurant's respective Report Template.

- 4. Store data in a database designed for easy querying.
- 5. Create the rolling 8-week report.
- 6. Export the data to their QuickBooks Format.

#### ### Create Web Interface

The web interface should be a simple website designed to do the following:

- Allow users to manually upload Sales and Payments files for a restaurant.
- Download the generated reports.
- View and Filter, all generated Reports.
- When the database is designed, view the 8-week running total.

## ### Test and Verify Generated Reporting Data

This will involve sending the generated data back to the company for review and comparison with a previously manually tabulated one to ensure data accuracy and integrity.

Any necessary Revisions will then take place in this phase.

#### ### Create Database

At this point, a database will be created designed to store a copy of the information placed within each Generated Report File. This is to provide easy access without having to reopen each file, when performing calculations like the 8-week running total.

The database will be structured as follows:

#### #### Tables

- QP Bistro
- Cafe De Paris
- Tides
- The Cliff

#### #### Columns

- ID
- Restaurant
- Date
- Total\_Amount
- Amount\_Spent\_By\_Visa
- Amount\_Spent\_By\_Master
- Amount\_Spent\_By\_Prepaid
- Amount\_Spent\_By\_Cash
- Amount\_Spent\_By\_Other
- Total\_Amount\_Spent\_By\_Meal\_Type (Breakfast, Lunch, Dinner)
- Amount\_Spent\_By\_Breakfast
- Amount\_Spent\_By\_Lunch
- Amount\_Spent\_By\_Dinner
- Total\_Number\_Of\_Guests
- Number\_Of\_Breakfast\_Guests
- Number\_Of\_Lunch\_Guests
- Number\_Of\_Dinner\_Guests
- $Total\_Amount\_Spent\_By\_Sub\_Meal\_Type$

- Amount\_Spent\_By\_Non\_Alcoholic\_At\_Breakfast
- Amount\_Spent\_By\_Non\_Alcoholic\_At\_Lunch
- $\hbox{-} Amount\_Spent\_By\_Non\_Alcoholic\_At\_Dinner$
- Amount\_Spent\_By\_Wine\_At\_Breakfast
- Amount\_Spent\_By\_Wine\_At\_Lunch
- Amount\_Spent\_By\_Wine\_At\_Dinner
- Amount\_Spent\_By\_Water\_At\_Breakfast
- Amount\_Spent\_By\_Water\_At\_Lunch
- Amount\_Spent\_By\_Water\_At\_Dinner
- Amount\_Spent\_By\_Food\_At\_Breakfast
- Amount\_Spent\_By\_Food\_At\_Lunch
- Amount\_Spent\_By\_Food\_At\_Dinner
- Total\_Service\_Charge
- Total\_VAT\_Cost
- Total\_Government\_Levy
- Total\_Deposit

## ### Develop QuickBooks Script

This script will be responsible for loading the generated report data into QuickBooks by Account Number.

More Information Pending

### Test and Verify Data Loaded in QuickBooks

More Information Pending

# ### Document Everything.

# DOCUMENT IT ALL!

