

MEAL MASTER



A SIMPLE MEAL SCHEDULING APPLICATION

USING :



DEVELOPED BY:

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ABOUT

Story:

Have you ever been dreaded with deciding what to eat for dinner?
Or even more painful, having to decide the meal, and then rushing to prepare it just in time for your programmed dinner time slot. Do you ever imagine a perfect world, where instead of firing one neuron of thought into determining your dinner meals, you can invest that energy and focus on other interests.

MY STORY

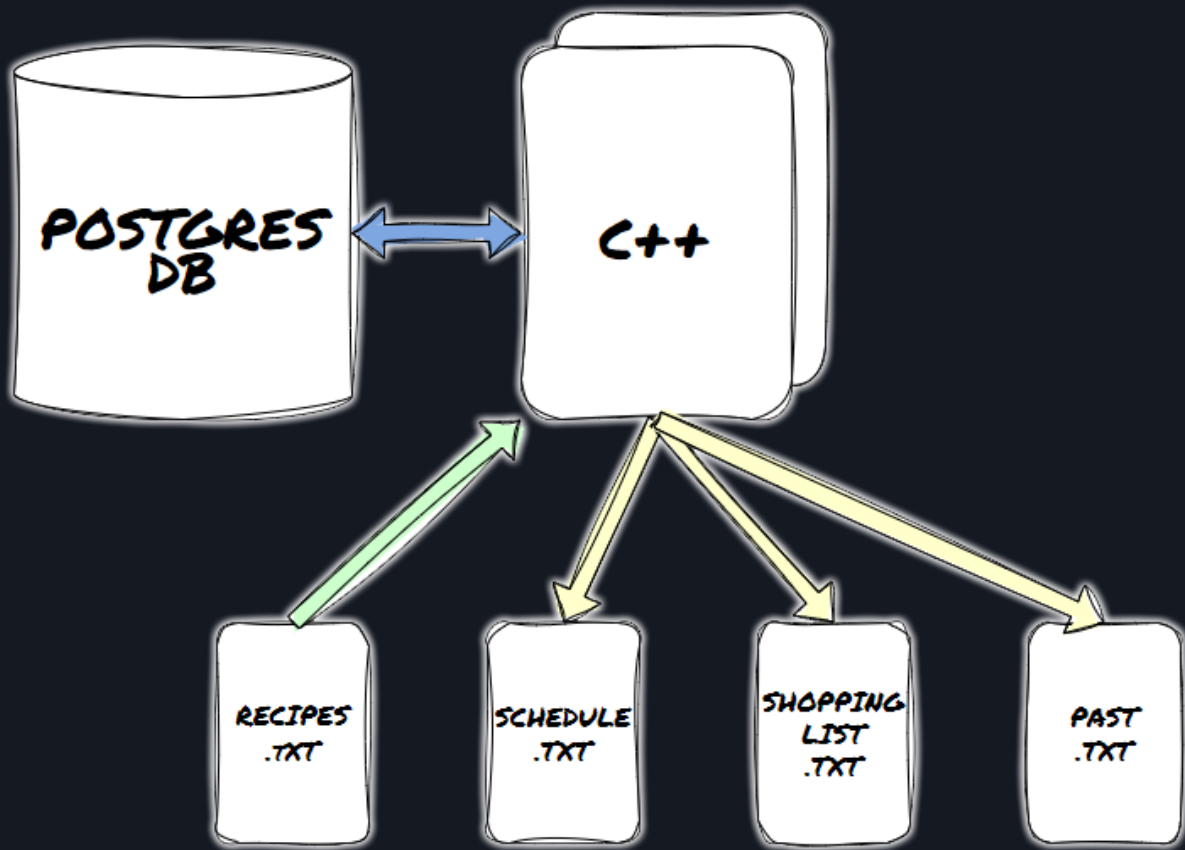
Solution:

ALAS A SOLUTION

DESCRIBE BENEFITS



OVERALL DESIGN





SCRIPT FILE

The 'ProduceSchcedule.sh' script file will:

- Make the C++ application
 - `$ make`
- Ensure that the search_path is set to the correct schema
 - `SET SEARCH_PATH to MealMaster;`
- Run the .sql files
 - `$ psql -U <user> -d <database> -f <filename>.sql`
- Run the C++ application to generate a schedule file
 - `$./mealMaster`
- Quality control new schedule; must differ
 - `$ diff oldSchedules.txt newSchedules.txt`
- Clean
 - `$ make clean`



RECIPE.CPP

General:

A class that is responsible for managing connections with the Postgresql database.

Goals:

- ☐ Function: That fills the database from reading the recipes.txt file
- ☐ Function: That writes a schedule.txt file from the database
- ☐ Function: That writes a shoppingList.txt file from the database
- ☐ Function: That adds the recent schedule produced in schedule.txt to past.txt; a historical schedule file.

MAIN.CPP

General:

Main driver code. Utilizes the Recipe class

Goals:



DATABASE DESIGN

Recipes			
ID	RecipeName	MealTypes(ID)	Instructions
PK	VARCHAR	INT REF	TEXT

MealTypes	
ID	RecipeName
PK	VARCHAR

Ingredients	
ID	IngredientName
PK	VARCHAR

RecipeIngredients				
ID	Recipes(ID)	Ingredients(ID)	TotalQty	QtyType
PK	INT REF	INT REF	NUMERIC	VARCHAR



RECIPES.TXT FILE - INPUT - READ FILE

Format for 'Recipes.txt':

<RECIPE NAME>

<MEAL TYPE>

- OPTIONS:

- 'P': Poultry
- 'R': Red Meat
- 'S': Seafood
- 'G': Green

<INGREDIENTS>

- <QTY>
- <QTY TPE>
- <INGREDIENT NAME>

<INSTRUCTIONS>

SCHEDULE.TXT FILE - OUTPUT - WRITE FILE

Format for 'Schedule.txt':

Monday	Tuesday	Wednesday	Thursday	Friday
Meal 1	Meal 2	Meal 3	Meal 4	Meal 5

SHOPPINGLIST.TXT FILE - OUTPUT - WRITE FILE

Format for 'ShoppingList.txt':

<QTY> <QTY TYPE> <INGREDIENT NAME>

PAST.TXT FILE - OUTPUT - WRITE FILE

Format for 'Past.txt':

<SCHEDULE COUNT>

Meal 1

Meal 2

Meal 3

Meal 4

Meal 5

OTHER TOOLS USED IN THIS PROJECT

- Draw.io for diagrams/sketches
- Photoshop for logo/image editing
- DALL-E for generating logo design ideas
- Google Docs for design documentation