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Macro Manager Environment

2021

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# Executive Summary

# Functional Model

# Product Backlog

# Sprint Backlog

# Development

## Frontend

## API

## Database

Install PostgreSQL, ensure the ODBC driver is installed with it in the stack builder section of the install. Add the Postgres bin and lib folders to the PATH environment variable.

Run psql -U postgres and input the password you set up during installation.

Commands to create database and tables.

*CREATE DATABASE macromanager CREATE DATABASE macroManager WITH ENCODING 'UTF8' LC\_COLLATE='English\_Ireland' LC\_CTYPE='English\_Ireland';*

*CREATE TABLE "Pantry" (*

*"UserID" int,*

*"PantryID" int,*

*PRIMARY KEY ("PantryID")*

*);*

*CREATE TABLE "Food" (*

*"PantryID" int,*

*"FoodID" int,*

*"Title" varchar,*

*"Calories" int,*

*"Fat" int,*

*"Carbohydrate" int,*

*"Protein" int,*

*"Serving Size" int,*

*"Misc" json,*

*PRIMARY KEY ("FoodID"),*

*CONSTRAINT "FK\_Food.PantryID"*

*FOREIGN KEY ("PantryID")*

*REFERENCES "Pantry"("PantryID")*

*);*

*CREATE TABLE "User" (*

*"UserID" int,*

*"FName" varchar,*

*"LName" varchar,*

*"Email" varchar,*

*PRIMARY KEY ("UserID")*

*);*

*CREATE TABLE "Diary" (*

*"UserID" int,*

*"DiaryID" int,*

*PRIMARY KEY ("DiaryID"),*

*CONSTRAINT "FK\_Diary.UserID"*

*FOREIGN KEY ("UserID")*

*REFERENCES "User"("UserID")*

*);*

*CREATE TABLE "DiaryEntry" (*

*"DiaryEntryID" int,*

*"DiaryID" int,*

*"Title" varchar,*

*"Calories" int,*

*"Fat" int,*

*"Carbohydrate" int,*

*"Protein" int,*

*"Servings" decimal,*

*"Misc" json,*

*PRIMARY KEY ("DiaryEntryID"),*

*CONSTRAINT "FK\_DiaryEntry.DiaryID"*

*FOREIGN KEY ("DiaryID")*

*REFERENCES "Diary"("DiaryID")*

*);*

*CREATE TABLE "DiaryEntryFood" (*

*"DiaryEntryFoodID" int,*

*"DiaryEntryID" int,*

*"FoodID" int,*

*PRIMARY KEY ("DiaryEntryFoodID"),*

*CONSTRAINT "FK\_DiaryEntryFood.FoodID"*

*FOREIGN KEY ("FoodID")*

*REFERENCES "Food"("FoodID"),*

*CONSTRAINT "FK\_DiaryEntryFood.DiaryEntryID"*

*FOREIGN KEY ("DiaryEntryID")*

*REFERENCES "DiaryEntry"("DiaryEntryID")*

*);*

*CREATE TABLE "Recipe" (*

*"UserID" int,*

*"PantryID" int,*

*"RecipeID" int,*

*"Title" varchar,*

*"Calories" int,*

*"Fat" int,*

*"Carbohydrate" int,*

*"Protein" int,*

*"Serving Size" int,*

*"Misc" json,*

*PRIMARY KEY ("RecipeID"),*

*CONSTRAINT "FK\_Recipe.PantryID"*

*FOREIGN KEY ("PantryID")*

*REFERENCES "Pantry"("PantryID")*

*);*

*CREATE TABLE "DiaryEntryRecipe" (*

*"DiaryEntryRecipeID" int,*

*"DiaryEntryID" int,*

*"RecipeID" int,*

*PRIMARY KEY ("DiaryEntryRecipeID"),*

*CONSTRAINT "FK\_DiaryEntryRecipe.RecipeID"*

*FOREIGN KEY ("RecipeID")*

*REFERENCES "Recipe"("RecipeID"),*

*CONSTRAINT "FK\_DiaryEntryRecipe.DiaryEntryID"*

*FOREIGN KEY ("DiaryEntryID")*

*REFERENCES "DiaryEntry"("DiaryEntryID")*

*);*

*CREATE TABLE "RecipeIngredient" (*

*"RecipeIngredientID" int,*

*"FoodID" int,*

*"RecipeID" int,*

*"Servings" decimal,*

*PRIMARY KEY ("RecipeIngredientID"),*

*CONSTRAINT "FK\_RecipeIngredient.RecipeID"*

*FOREIGN KEY ("RecipeID")*

*REFERENCES "Recipe"("RecipeID"),*

*CONSTRAINT "FK\_RecipeIngredient.FoodID"*

*FOREIGN KEY ("FoodID")*

*REFERENCES "Food"("FoodID")*

*);*

These commands correspond to the physical ERD submitted with the Environment document. There has been a few alterations to datatypes as the data types used in the previous iteration were not compatible with PotsgreSQL. Initially the database was going to be developed using MySQL.

Diagram, schematic

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# Kanban

# Project Schedule

# Issues, Risks & Learnings

# Conclusion & Next Steps