DBMS Project Report

Phase-1

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Project Overview

- We build an application for a restaurant, which uses a Database comprising customers ,bench, cooks, waiters, dishes, ingredients among others.
- The description is as follows: The restaurant has different types of cuisines with many meals under it. Customers enter the restaurant to order the meals. Ingredients for the meals are updated as and when the cook makes the dish.
- The billing of the customer can be done as per the dishes ordered on the bench.
- The waiter serves the occupant bench in the restaurant. One meal dish takes a stipulated amount of time to prepare.

Constraints

- A waiter can serve 5 benches at max at a given time.
- The relationship between ingredients and dishes has not been decided yet (quantity of ingredients and how to update when a dish is ordered)
- A customer gains entry to the restaurant if and only if a bench is available.
- A meal has a minimum of 2 ingredients
- Each meal is made of different ingredients and if the meal can be made is subject to the availability of the sufficient quantity of the ingredients.
- A meal can only be prepared if a cook and a waiter are free.
- A set a customers can only occupy one bench

Functionality supported

A customer can order a dish.

The user and manager will be given a way to login

Ingredients will be subtracted as and when new dishes are made by the cook.

A meal can be added to the pool of available meals with all attributes (ingredients, price, time to prepare)

The bill invoice is generated according to the dishes ordered on the particular table

Brief overview of GUI

(GUI, navigation, other screens)

One main login screen containing 2 Types of logins : one for the customer and another for the restaurant manager. The home page for customers contains the cuisines which have meals under them that they can order by their convenience. The customer can manage the preparation time for the dishes. The bill generated can be accessed by the customer form their homepage. The manager's home screen will have the ability to add a dish with a name, price and ingredients to the customer's menu.

Tech supported

RDBSM   -   MySQL

Host programming language -   Python
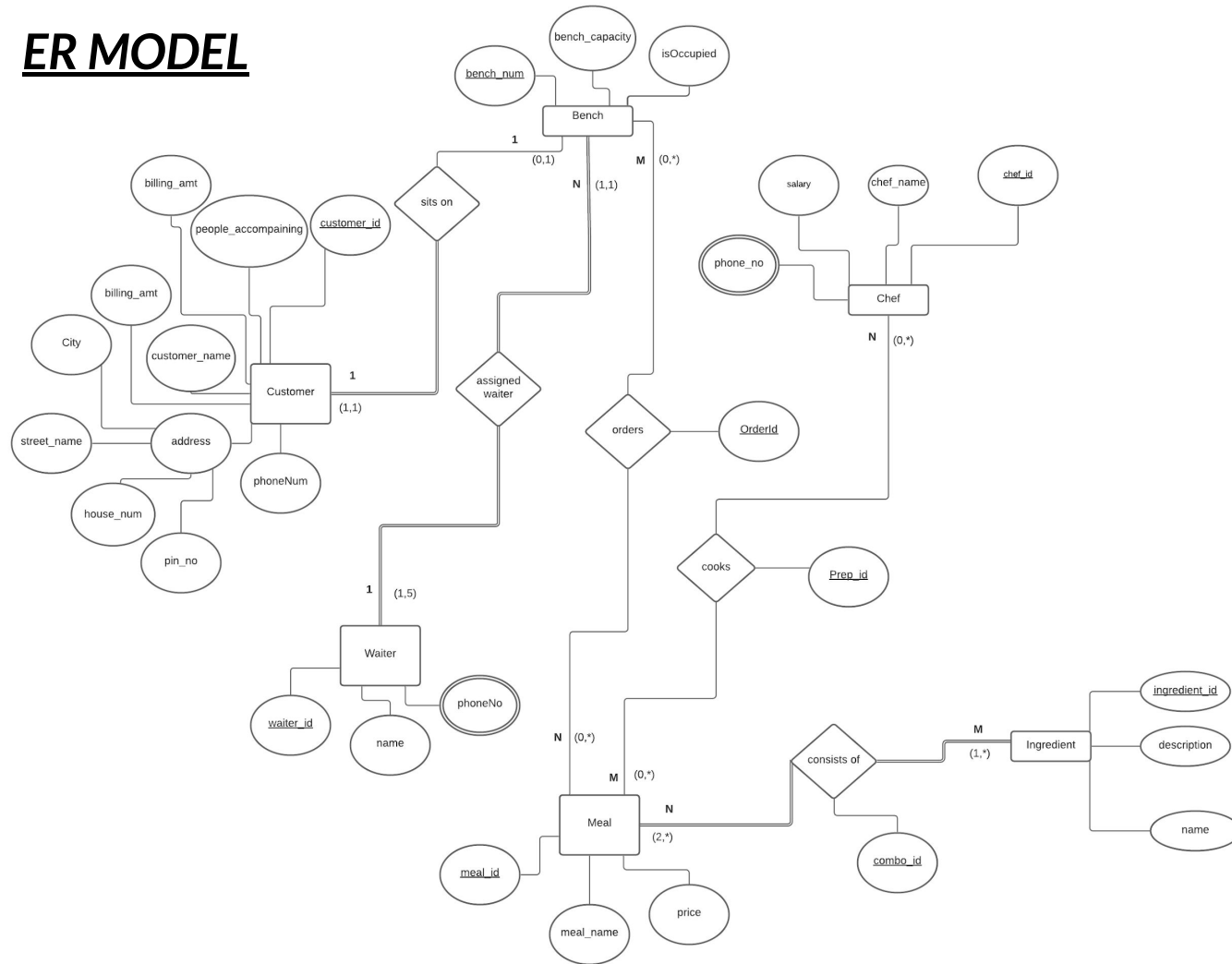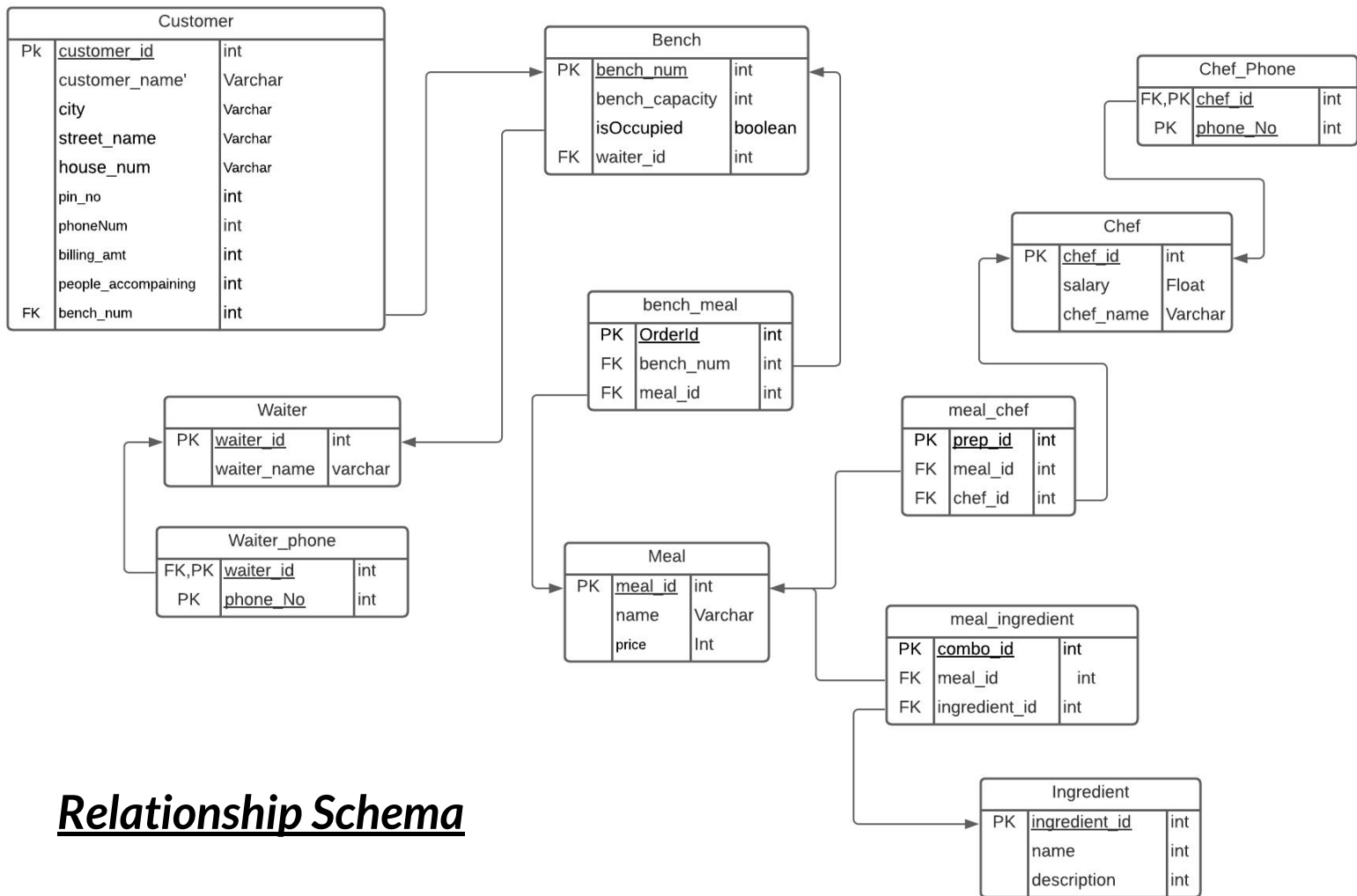
Framework for application   -   Flask(Python)

Version Control using   -   Git and Github

Front-end development   -   Flutter (dart)

web domain hosting   -   heroku

ER MODEL

Relationship Schema