

Final Project Proposal

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Title: Bar Operating System

Executive Summary:

Given our experience in the service industry, we will create a database architecture that can handle the operating procedures in a bar.

(Svitlana)The **Employee** table will contain the employees information and their roles.

(David) The **Inventory** table will contain the bottle in stock at the bar.

(David)The **Cocktail** table will contain the bar menu and recipes for the cocktails.

(Svitlana)The **Tabs** table will contain information on guests tabs .

(Together)The **Bottle_Types** table will contain information on they types of bottles in inventor And base types for cocktails.

Relationships between entities:

The **Bottle_Types** table will have a one to many relationship with the **Inventory** and **Cocktail** tables

The **Cocktail** table will have a many to many relationship with the **Tabs** table

The **Employee** Table will have a one to many relationship with the **Tabs** table

End point features:

/bottle_type

/add (POST) adds a new bottle type.

/get_all (GET) retrieves all bottle types

/inventory

/employee_id/add (POST) checks if employee is a manager and allows him to add new items.

/employee_id/update/{name} (PUT) used to update items in inventory by item name.

/employee_id/delete/{name} (DELETE) used to delete items by name.

/employee_id/get/{name} (GET) retrieves item information by name.

/employee_id/get (GET) retrieves all items in inventory.

/cocktails

/add (POST) adds a new cocktail to the database.

/update/{name} (PUT) modifies an existing cocktail by name.

/getall (GET) retrieves all cocktails.

/get/{name} (GET) retrieves a cocktail by its name.

/get/{type} (GET) retrieves all cocktails of a type(tequila/whiskey ect.)

/delete/{name} (DELETE) deletes a cocktail from database.

/employee

/add (POST) adds new employee.

/update (PUT) updates and employees information.

/get (GET) retrieves all employees information.

/get/{employee_role} (GET) retrieves all employees by their roles.

/delete/{employee_id} (DELETE) deletes and employee by id

/tab

/employee_id/new (POST) creates a new tab.

/employee_id/update (PUT) updates tabs with more items .

/employee_id/get (GET) brings up all tabs under that employee.

/employee_id/getall (GET) brings up all tabs.

/employee_id/get{tab_id} (GET) bring up a specific tab.

/employee_id/close/{tab_id} (DELETE) closes a tab.

Stretch goals:

Add a report table to track employee sales, tips and total sales by date.

Add a food menu table.

Add variable costs on drinks based on choice of liquor.

Add table for non-cocktails drinks