BIG IDEA!

Hypothetical Idea: Using Quantum Computation

We know everything in real life is probabilistic. Quantum computing simulates probability. It can simultaneously simulate all possible state. Before implementing the microcontroller based order automation we can design quantum circuit that will predict minimum profit increment for this integration.

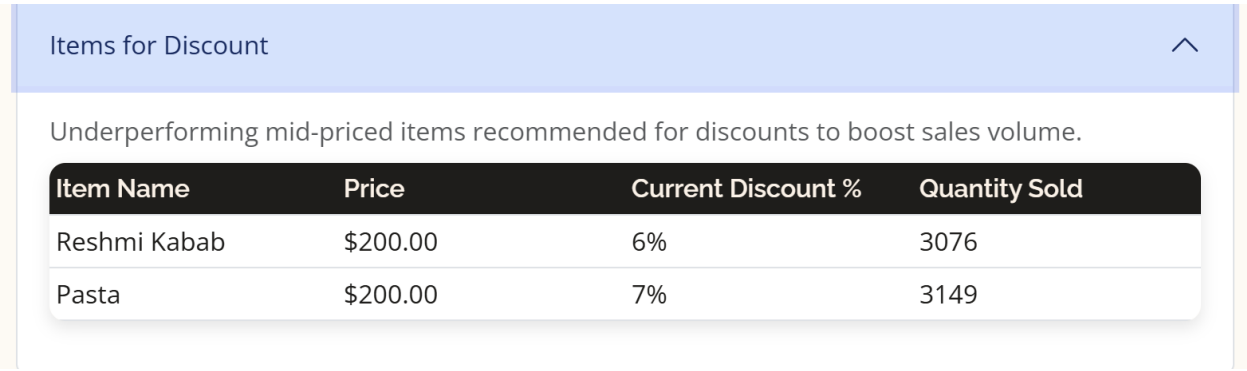
Using VQE algorithm we can predict minimum energy of a system.

Designing proper ansatz and Hamiltonian we can predict minimum profit too using same method.

General Idea

- Idea 1: Discount Prediction for business profit

(implemented using sql query,but this is static,rather we can train a machine learning model based on past 30 days information)

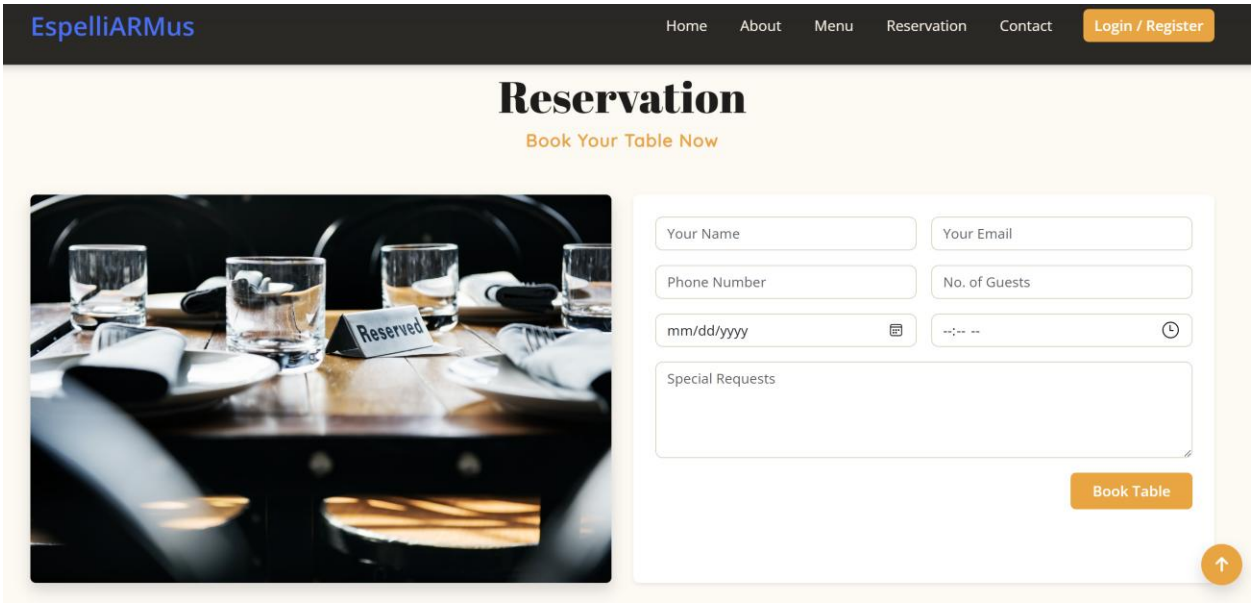


Items for Discount

Underperforming mid-priced items recommended for discounts to boost sales volume.

Item Name	Price	Current Discount %	Quantity Sold
Reshmi Kabab	$200.00	6%	3076
Pasta	$200.00	7%	3149

- Idea 2 : Table a book through online(partially implemented)



- Idea 3:

Give food review or rating system

```
-- Item Table
CREATE TABLE Item (
    item_id SERIAL PRIMARY KEY,
    item_name VARCHAR(255) NOT NULL,
    description TEXT,
    price DOUBLE PRECISION NOT NULL,
    rating DOUBLE PRECISION CHECK (rating >=
    availability BOOLEAN NOT NULL DEFAULT TRU
    discount_percentage DOUBLE PRECISION CHEC
);
```

Kept rating field in database, need to handle from microcontroller by adding additional state.

Based on rating, we can improve food quality, recommend food using past data and ML model

- Idea 4:

Payment automation through microcontroller (like vending machine)

Implemented the scema part.Need optical hardware device for physical money.

Also can integrate mobile banking.

- Idea 5:

Air cooler temperature adjustment:

We can use sensor and microcontroller and train a machine learning model to adjust temperature of the room based on physical movement analysis for human.