

Burgundy

COS 214 Final Project

Group 24

Lerato Gololo · Brenden van der Mescht · Siyamthanda Ndlovu
Katlego Zondo · Sechaba Ntsheni



Burgundy

Functional Requirements

Chef should be able to :

- Receive orders from waiters
- Use order to construct meals
- Plate food to be sent to waiter
- Observe customer satisfaction

Customer should be able to :

- Be assigned to a table
- Create an order and then place it
- Specify ingredients and remove or add to the order prior to it being sent to the kitchen
- Decide on payment method
- Receive their order and eat it

Manager should be able to :

- Assign tables to customers
- Build tables which can hold a maximum of four customers
- Observe customer satisfaction

Waiter should be able to :

- Be assigned a table
- Take customer orders to the kitchen
- Receive the meals from the kitchen and deliver them to the customers
- Create bills and send them to customers
- Observe customer satisfaction for the customers at their table



Burgundy

Design Patterns

Mediator

Waiters take orders between floor and kitchen

Chain of Responsibility

An order has to go through a chain of chefs that may each handle the order

Memento

Customer may revert back their order to a previous version

Decorator

Each customer may customise their burger burger to only include ordered ingredients

Strategy

Customer may pay the bill by paying on their own, splitting it or by opening a tab

Builder

Should a group of more than four customers enter, the manager has to build a table for them

State

A table may either be unoccupied, occupied, dirty or have its bill paid

Observer

The floor staff needs to observe the satisfaction of tables in the restaurant

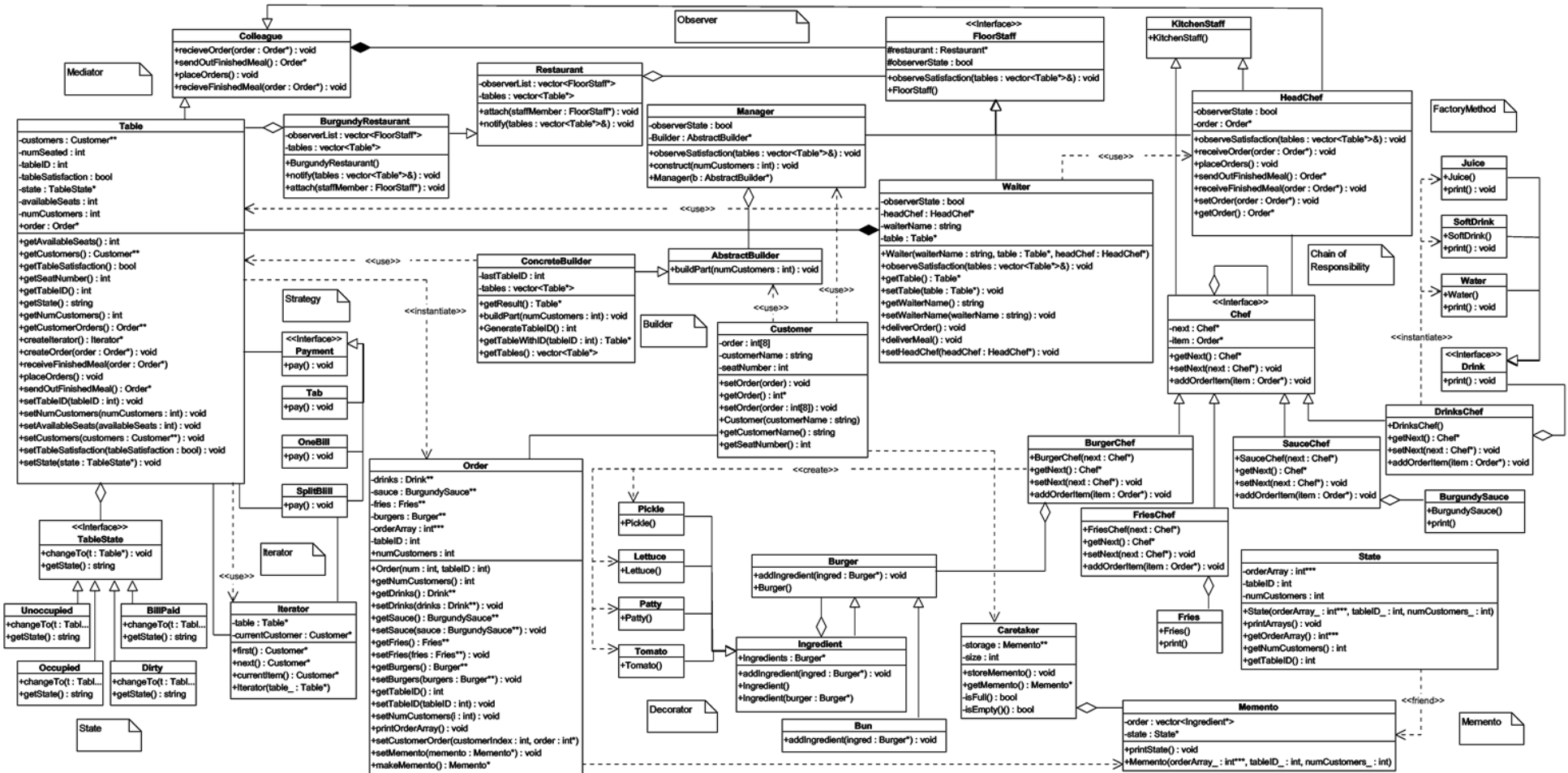
Factory Method

The drinks chef may create either a juice, water or soft drink depending on the order

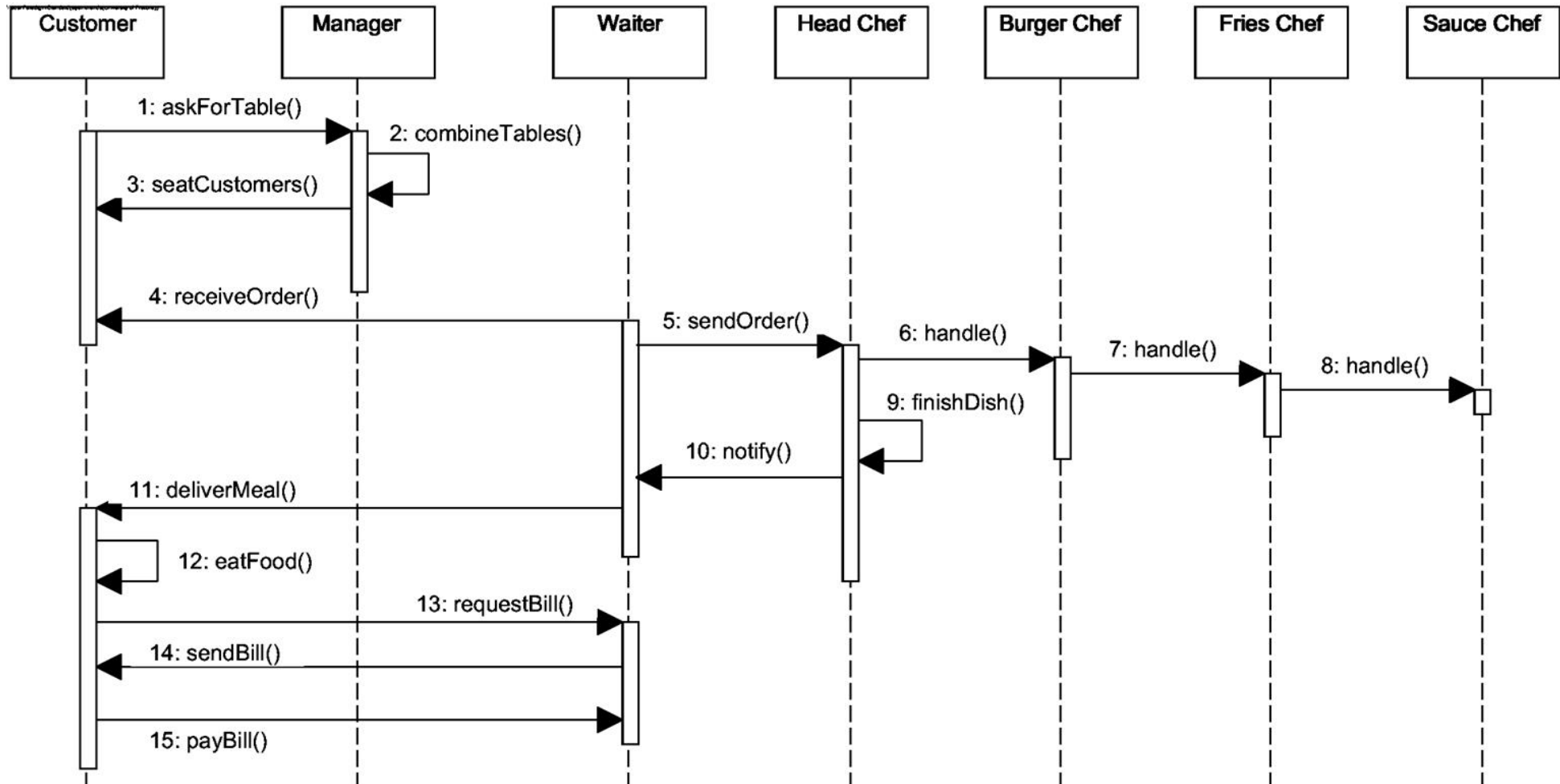
Iterator

When the customers are splitting a bill, we iterate through the customers to get their contribution

Burgundy Class Diagram



Burgundy Sequence Diagram



Burgundy Activity Diagram

