



CODE-LOGIK

Crafting Cutting-Edge Software

THE WILLOW TREE OMS

CS4233 CAPSTONE PROJECT 2024

MODELING

PREPARED BY:

Mark Sarasua, Jr.

Application Development

Code-Logik

21081 Insight Avenue, Tulsa, OK, 74135

918-555-2240 | 918-555-2645

mark.sarasua@code-logik.com

PREPARED FOR:

Maria Zabala

Owner

The Willow Tree

600 N. Grand Ave., Tahlequah, OK, 74464

918-456-5511 | 800-722-9614

maria.zabala@thewillowtree.com

PROJECT OVERVIEW

PROJECT NAME: The Willow Tree OMS

PROJECT REFERENCE: CS4233 CAPSTONE PROJECT 2024

DATE: 29 JAN 2024 – 29 APR 2024

OBJECTIVE: Redesign The Willow Tree's Order Management System (OMS) to create a secure, stable, high-performance application capable of keeping pace with restaurant business demands while providing the customer with the best possible dining experience.

PROBLEM STATEMENT: The current OMS software performance is impacted by circumstances extending beyond The Willow Tree's scope of business; the hosted source code is also vulnerable to random and targeted security threats and requires a redesign to protect the integrity of The Willow Tree's day-to-day operations.

USER STORIES

USER STORY 1	
Story Title	View Menu
Story ID	001
Story Type	User
Functional Area	Design and Structure Menu Items and Selection
Non-Functional Area	Usability Performance
Priority	1
As a...	Customer
When...	seated at a table
I want to...	be able to view the menu
In order to...	make selections

USER STORY 2	
Story Title	Select Menu Items
Story ID	002
Story Type	User
Functional Area	Design and Structure Menu Items and Selection
Non-Functional Area	Usability Performance
Priority	1
As a...	Customer
When...	viewing the menu
I want to...	be able to select menu items
In order to...	prepare to place an order

USER STORY 3	
Story Title	Unselect Menu Items
Story ID	003
Story Type	User
Functional Area	Design and Structure Menu Items and Selection
Non-Functional Area	Usability Performance
Priority	1
As a...	Customer
When...	viewing the menu
I want to...	be able to change menu item selections
In order to...	prepare to place an order

USER STORY 4	
Story Title	Cancel Order
Story ID	004
Story Type	User
Functional Area	Design and Structure Menu Items and Selection
Non-Functional Area	Usability Performance
Priority	1
As a...	Customer
When...	viewing the menu
I want to...	be able to clear all menu selections
In order to...	cancel my order

USER STORY 5	
Story Title	View Order
Story ID	005
Story Type	User
Functional Area	Design and Structure Menu Items and Selection Order Summary
Non-Functional Area	Usability Performance
Priority	1
As a...	Customer
When...	viewing the menu
I want to...	be able to view all menu selections
In order to...	ensure selection correctness

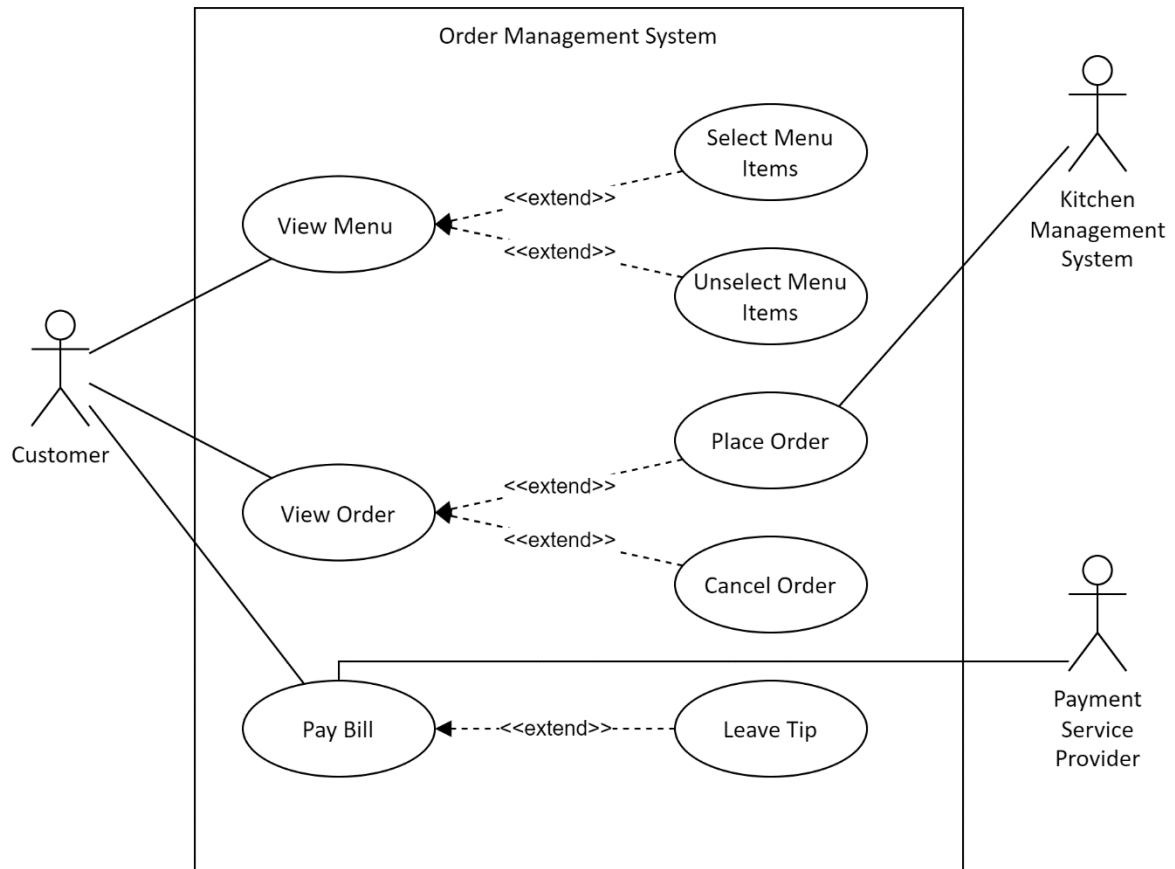
USER STORY 6	
Story Title	Place Order
Story ID	006
Story Type	User
Functional Area	Design and Structure Menu Items and Selection Order Summary
Non-Functional Area	Usability Performance
Priority	1
As a...	Customer
When...	viewing the menu
I want to...	be able to view a menu selections summary
In order to...	place an order

USER STORY 7	
Story Title	Pay Bill
Story ID	007
Story Type	User
Functional Area	Design and Structure Order Summary Receipt
Non-Functional Area	Usability Performance
Priority	1
As a...	Customer
When...	finished dining
I want to...	be able to review all menu selections
In order to...	pay the bill

USER STORY 8	
Story Title	Leave Tip
Story ID	008
Story Type	User
Functional Area	Design and Structure Receipt
Non-Functional Area	Usability Performance
Priority	1
As a...	Customer
When...	paying the bill
I want to...	be able to add to the total
In order to...	leave a tip

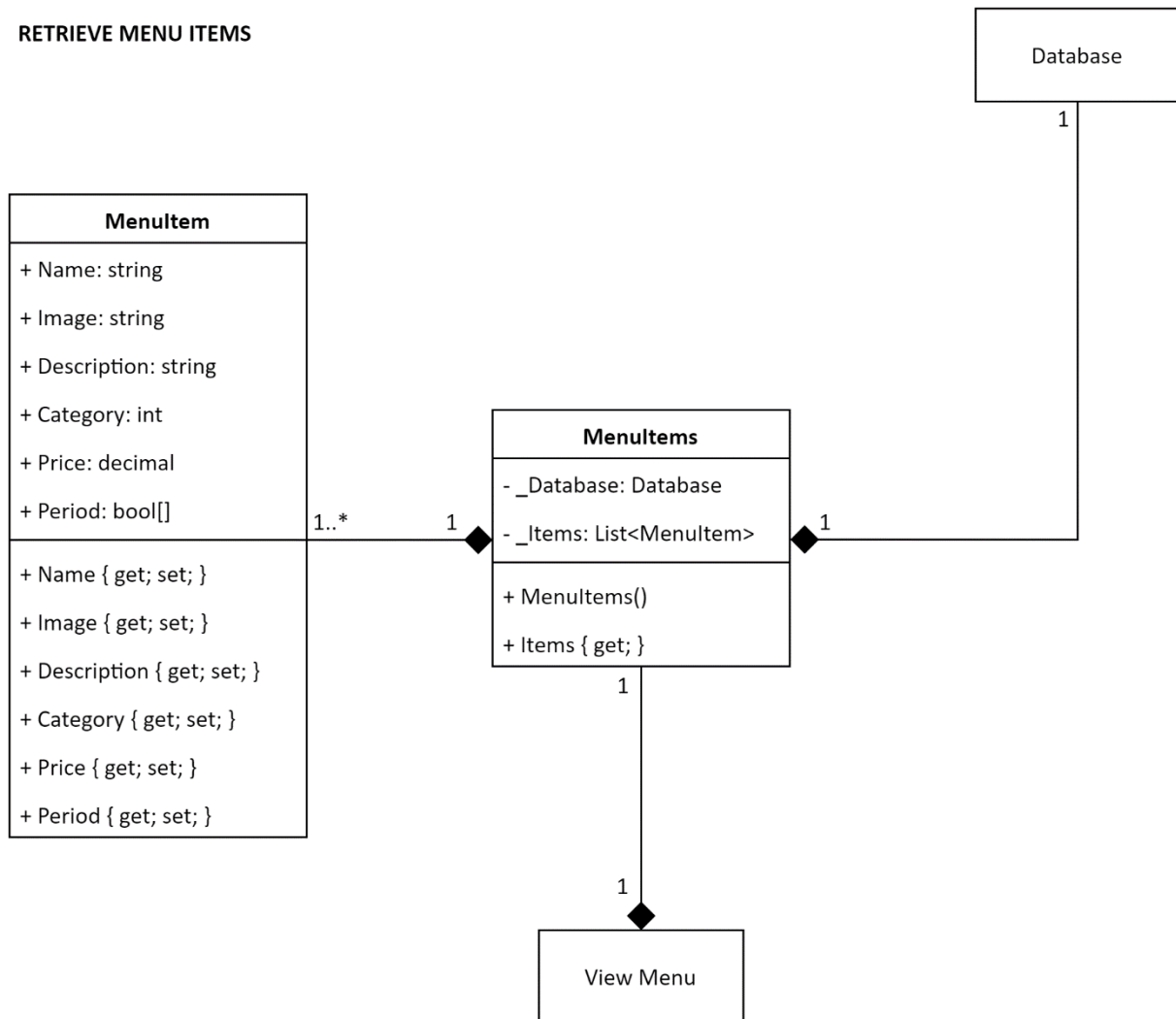
USE-CASE DIAGRAM

The Willow Tree OMS USE-CASE

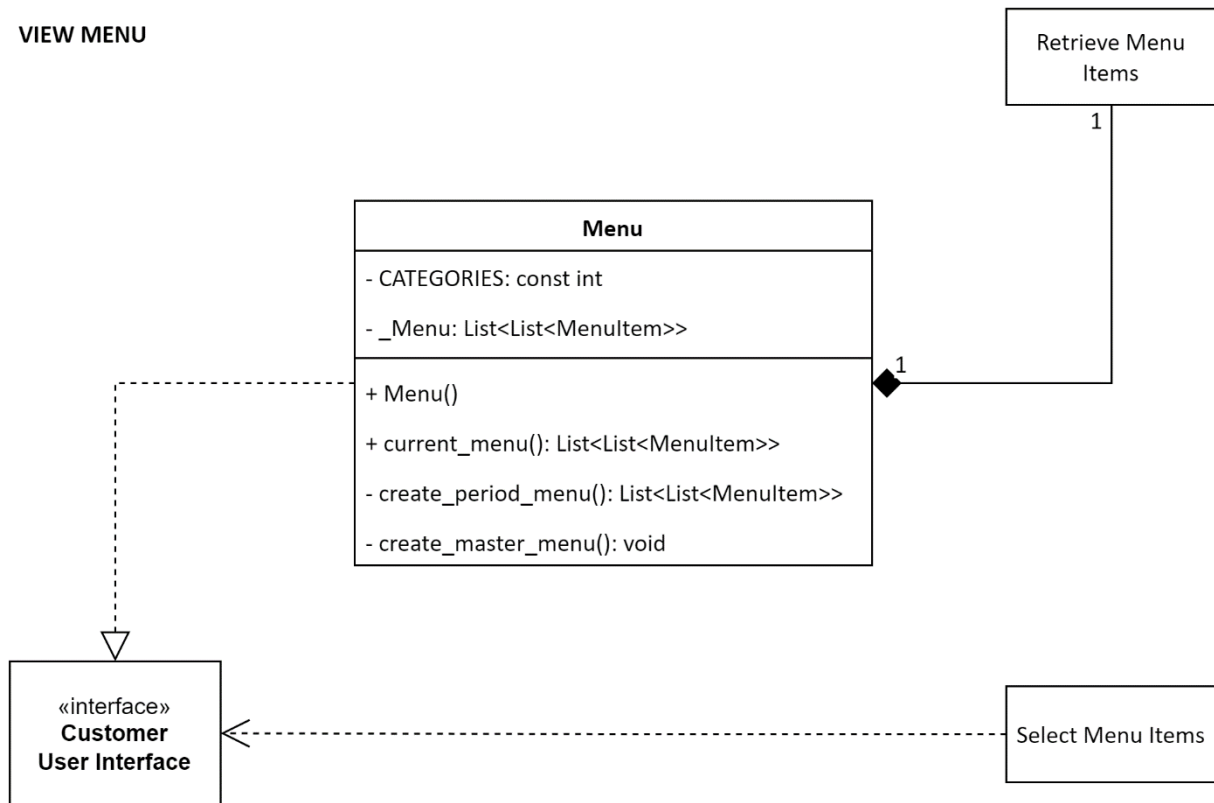


CLASS DIAGRAMS

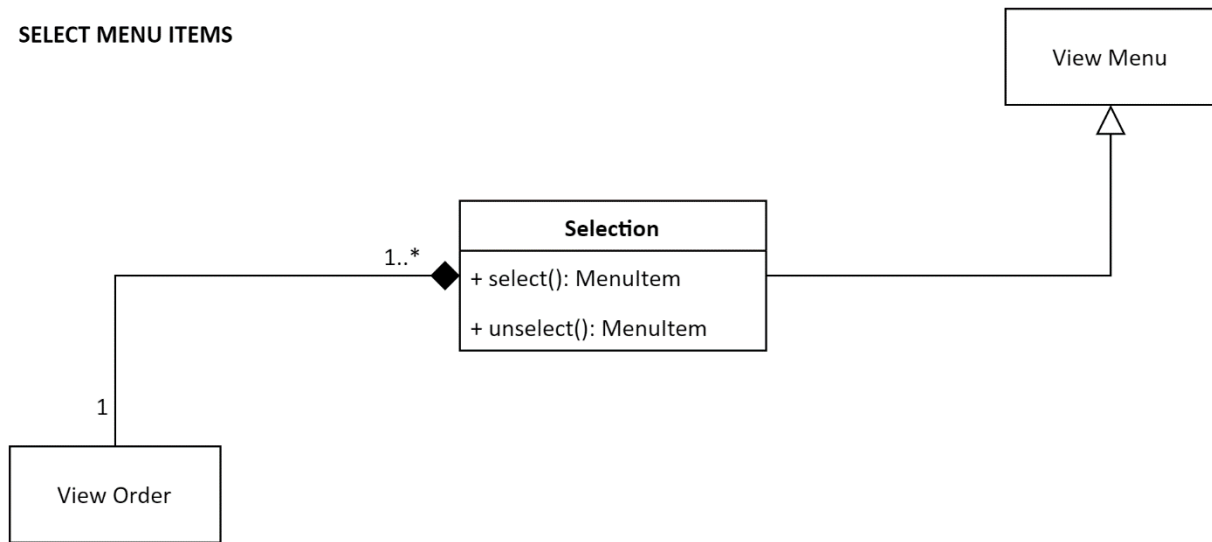
RETRIEVE MENU ITEMS



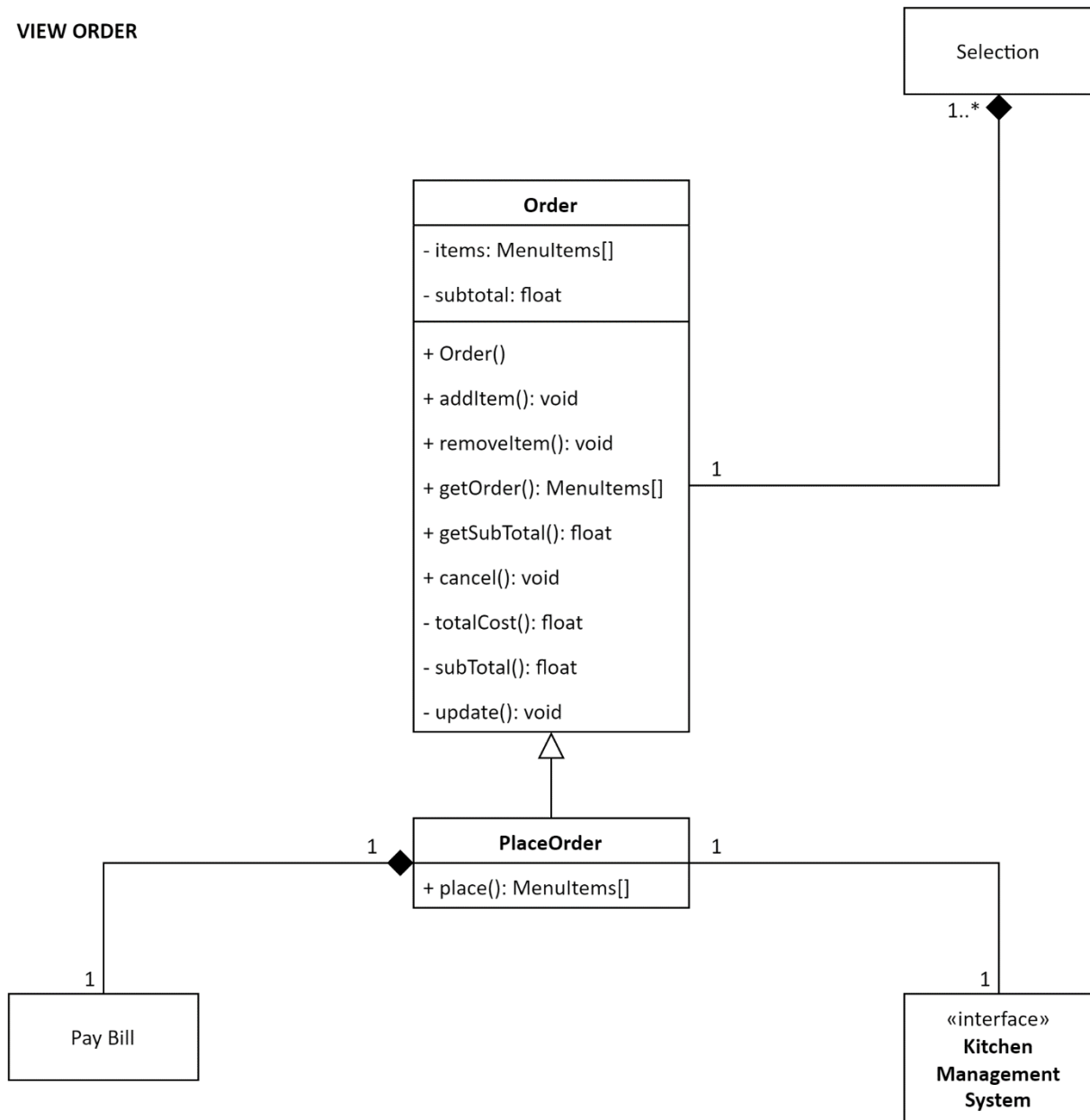
VIEW MENU



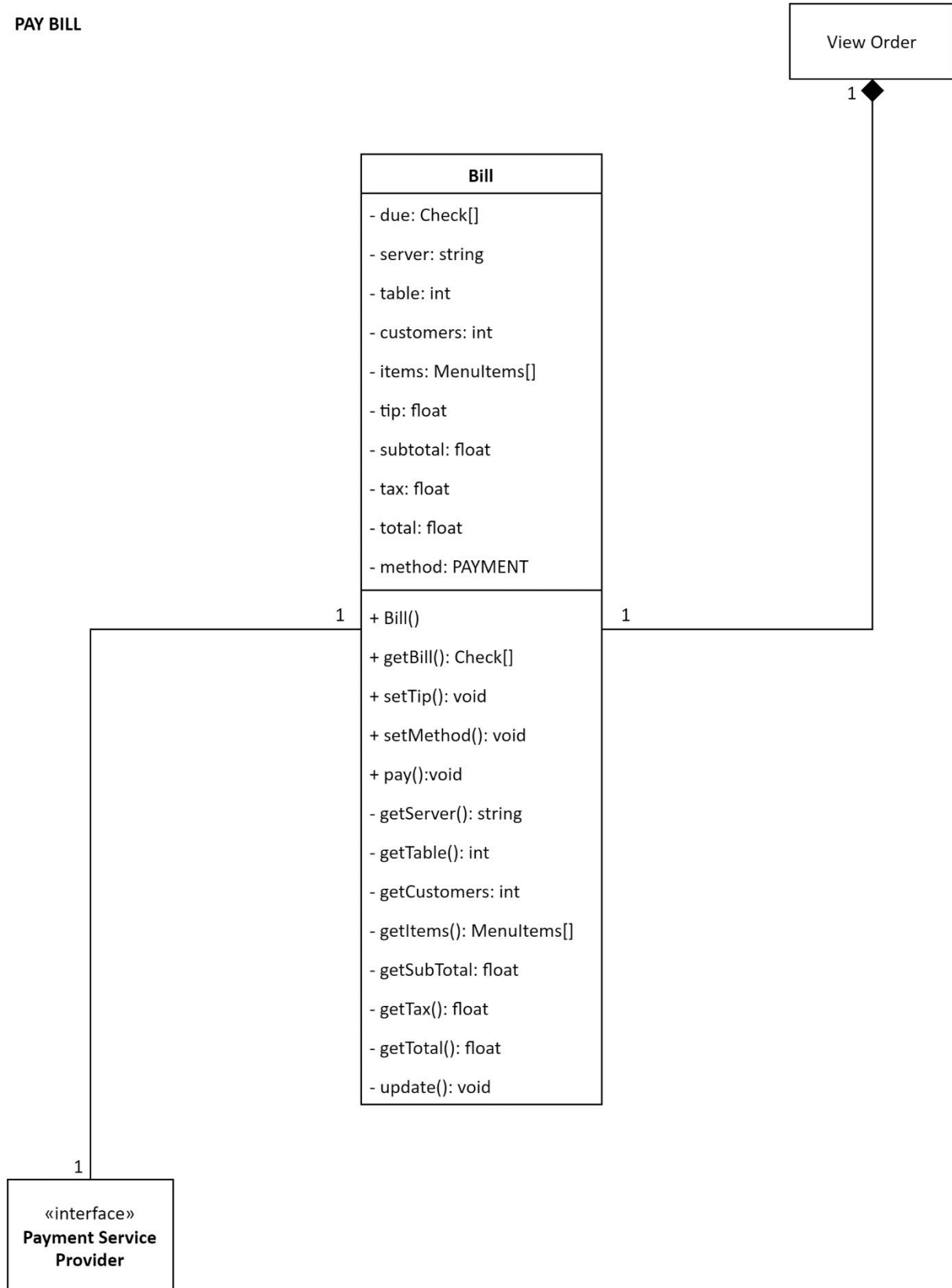
SELECT MENU ITEMS



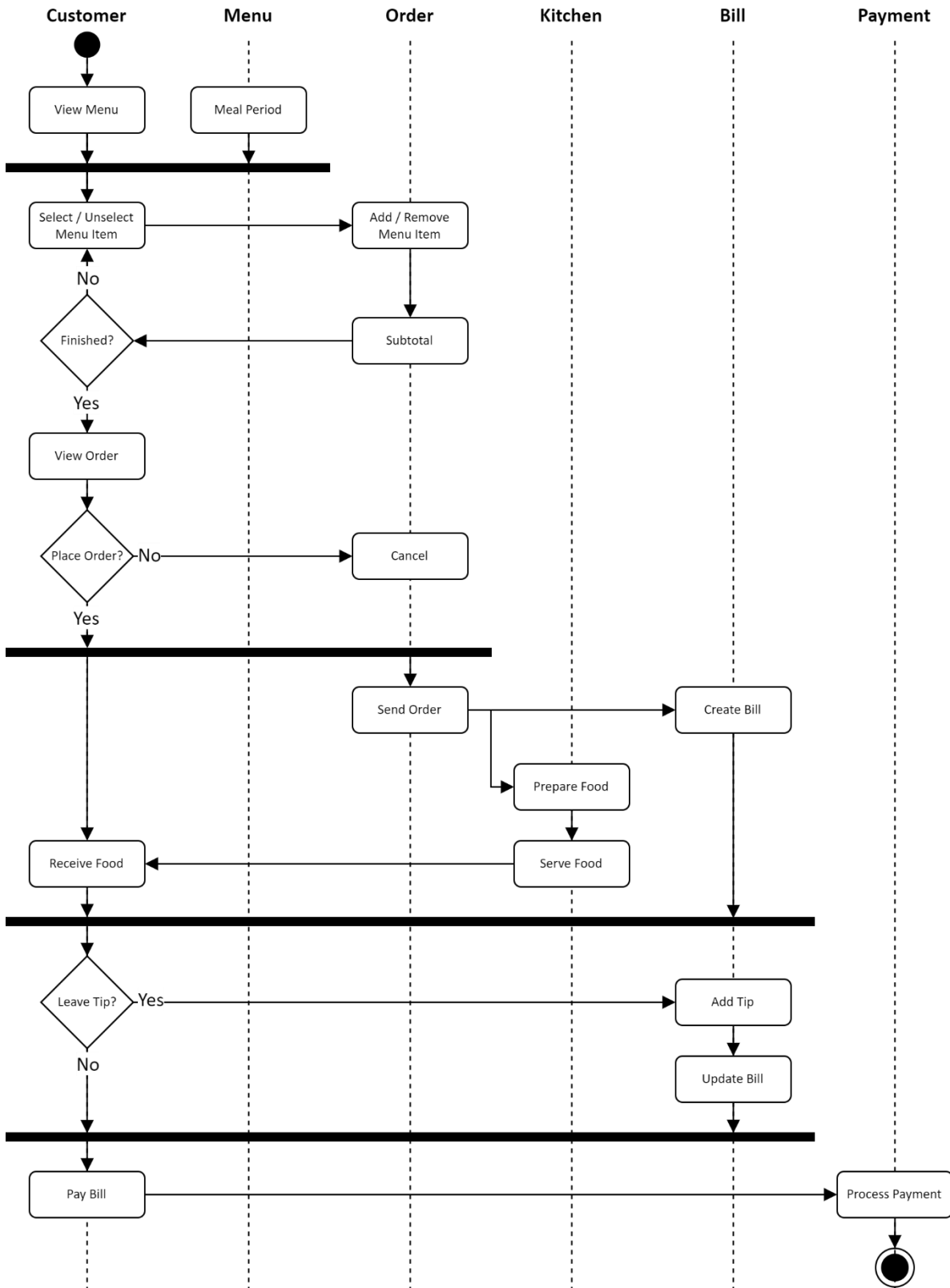
VIEW ORDER



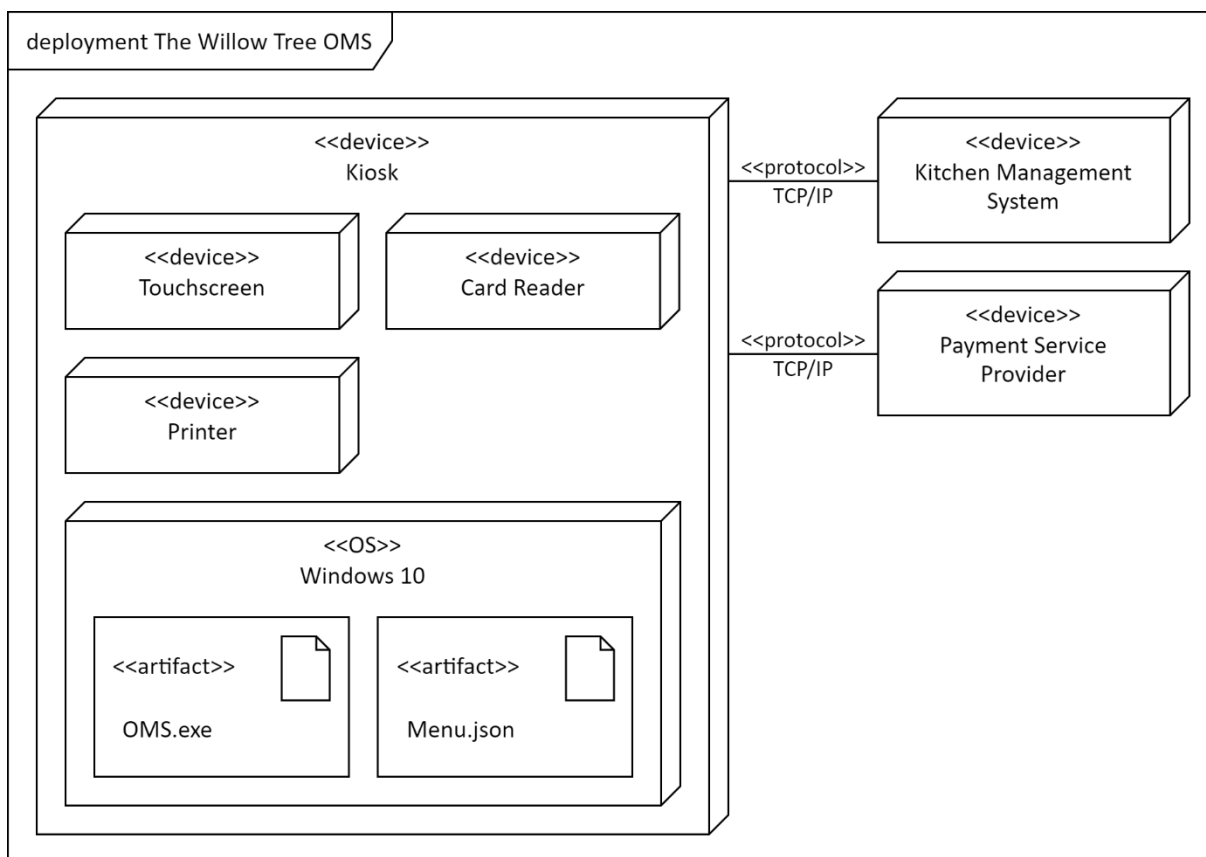
PAY BILL



ACTIVITY DIAGRAM



DEPLOYMENT DIAGRAM



For further details and information, please contact:

Mark Sarasua, Jr.
Application Development
918-555-2240 | 918-555-2645
mark.sarasua@code-logik.com