CODE-LOGIK
Crafting Cutting-Edge Software

REQUIREMENTS ANALYSIS DOCUMENT

PREPARED BY:

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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.

STAKEHOLDERS

- Customers
- Owner
- Employees
- Payment Service Provider
- Kitchen Management System Provider

FUNCTIONAL REQUIREMENTS

1. **DESIGN AND STRUCTURE:**

   - Header with The Willow Tree branding and a brief description.
   - Navigation Bar for customers to view menu items by logical categories.
   - Order Summary section to list selected items.
   - Receipt section to detail final order.

2. **MENU ITEMS AND SELECTION:**

   - Categorize menu items into logical sections.
   - Each menu item includes an image, brief description, and price.
   - Customers can select and deselect menu items.

3. ORDER SUMMARY:

- List each selected item with the cost.
- Subtotal all selected items together.
- Update totals in real-time as customers make selections.
- Button to cancel the order.

4. RECEIPT:

- Name of server and table number.
- List selected items, including item name, quantity, and price.
- Customers can specify the tip amount.
- Detail subtotal, tax, tip, and total cost.
- Method of payment.
- Display a "Thank You" message.

NON-FUNCTIONAL REQUIREMENTS

1. PERFORMANCE:

- Optimize code for dynamic content.

2. USABILITY:

- Menu items are well organized.
- Visually appealing.
- Intuitive and user-friendly.

3. SECURITY:

- Protect the database from unauthorized access.

4. COMPATIBILITY:

- Usable within industry-standard operating system environments.

5. MAINTENANCE:

- Easy to support and update.

CONSTRAINTS

BUDGET: $25,000

ASSUMPTIONS

PAYMENT SERVICE PROVIDER: OMS is compatible with payment processing software.
KITCHEN MANAGEMENT SYSTEM: OMS is compatible with order placement software.

For further details and information, please contact:

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