

THE WILLOW TREE OMS CS4233 CAPSTONE PROJECT 2024

TESTING

PREPARED BY:

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Application Development

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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.

RETRIEVE MENU ITEMS

The Retrieve Menu Items Iteration focused development on the Database, MenuItem, and MenuItems classes. A simple JSON database file was used to test their correctness.

The JSON database consisted of five generic menu items (Figure 1).

```
{
  "Name": "Item 1",
  "Image": "none",
  "Description": "Lorem ipsum dolor sit amet, consectetur adipiscing elit.",
  "Category": 1,
  "Price": 5.99,
  "Period": [
    true,
    true,
    true
]
},
```

Figure 1. JSON Database Menu Item 1 of 5.



A new instance of the MenuItems class was created, and a List<> of MenuItem was used to store the five generic menu items in the JSON database (Figure 2).

Figure 2. Retrieve Menu Items Test Code.

The expected console output was a line-by-line display of each of the five menu items in the JSON database.

```
Retrieve Menu Items Testing Tool

Item 1 none Lorem ipsum dolor sit amet, consectetur adipiscing elit. 1 5.99 True, True, True
Item 2 none Lorem ipsum dolor sit amet, consectetur adipiscing elit. 2 10.99 True, True, False
Item 3 none Lorem ipsum dolor sit amet, consectetur adipiscing elit. 3 15.99 True, False, True
Item 4 none Lorem ipsum dolor sit amet, consectetur adipiscing elit. 4 20.99 True, False, False
Item 5 none Lorem ipsum dolor sit amet, consectetur adipiscing elit. 5 25.99 False, True, True
```

Figure 3. Retrieve Menu Items Test Console Output.

Since the console output was what was expected (Figure 3), the Retrieve Menu Items Test is considered a success. Therefore, the Retrieve Menu Items Iteration will be closed, and the View Menu Iteration will be opened.



For further details and information, please contact:

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