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Professor Justh

CMSC 203 – 30963

Project 2

3/5/15

External documents

**Class documentation:**

**Driver Class:**

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\* This is the Driver class.

\* Its function is to provide the template for the GUI program.

\* And also to add MainPanel to JFrame

\* Driver() is a constructor for the Driver GUI class.

\* Its function is to call the MainPanel constructor

\* and it adds MainPanel to the JFrame's content pane

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**MainPanel Class:**

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\* This is the MainPanel class.

\*

\* This class is a GUI driver, and in it I used java creating a frame, panel, doing event programming,

\* using Radio Buttons, Buttons, Check Boxes, Textfields, Labels, and JOptionPane.

\* It has five panels if size, condiments, ordertotal and action buttons.

\* It has buttons for placing order, printing receipt and exiting the program.

\* It prints in curency form.

\* It then displays a receipt of the order using JOptionPane.

\* It displays the subtotal, tax and total due.

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**Method documentation:**

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\* RadioButtonListener class method.

\* It checks if hamburger, cheeseburger or double cheese burger are clicked.

\* It assigns price to burgerCost

\* It assigns the burger name to burgerChoice

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\* ButtonListener class method.

\* It checkes if place order, print receipt or exit button are pressed.

\* In place order button if check, it increments the condimentCost

\* and calls the methods from BurgerOrder Class for the subtotal, tax and total due.

\* It gets back the calculated value and displays to screen.

\* In the print receipt button it sends burger Cost to method and retrieves back the receipt,

\* and prints this to the screen.

\* In the exit button, it terminates the program.

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**BurgerOrder Class:**

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\* This is the BurgerOrder worker class.

\* It uses instance variables, constants, named constants,

\* methods get/set, uses a method to calculate the subtotal, tax and total price of the order, and a method to return a string that could be used to print a receipt.

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**Method documentation:**

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\* Method for calculating the order price called setOrderPrice

\* In this method I assign burgerCost and condimentCost Parameters to variables burgerC and condimentC.

\* Also here I calculate subtotal, tax and totalDue.

\* I implement decimal format here also.

\*

\* **@param** burgerCost

\* **@param** condimentCost

\*/

/\*\*

\* Method for returning subtotal called getSubtotal

\* **@return** subtotal

\*/

/\*\*

\* Method for returning tax called getTax

\* **@return** tax

\*/

/\*\*

\* Method for returning totalDue called getTotalDue

\* **@return** totalDue

\*/

/\*\*

\* Method for creating receipt called setReceiptText

\* In this method I create a String receiptText and assign burgerChoice parameter inside,

\* as well as the number of condiments used, the subtotal, tax and total amount due.

\*

\* **@param** burgerChoice

\*/

/\*\*

\* Method for returning receipt called getReceiptText

\* **@return** receiptText

\*/

**Test Cases:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Size Selected | Condiments Selected ($.25/each) | Expected Output  (Place Order Button Selected) | Actual Output  (Place Order Button Selected) | Expected Output  (Print Receipt Button Selected) | Actual Output  (Print Receipt Button Selected) |
| Hamburger - $4.95 | None | Subtotal: 4.95  Tax(7.85%): 0.39  Total Due: 5.34 | Subtotal: 4.95  Tax(7.85%): 0.39  Total Due: 5.34 | Your Order  Hamburger: $4.95  0 Condiment(s): $0.0  Subtotal: 4.95  Tax(7.85%): 0.39  Total Due: 5.34 | Your Order  Hamburger: $4.95  0 Condiment(s): $0.0  Subtotal: 4.95  Tax(7.85%): 0.39  Total Due: 5.34 |
| Hamburger - $4.95 | Lettuce  Tomatoes | Subtotal: 5.45  Tax(7.85%): 0.43  Total Due: 5.88 | Subtotal: 5.45  Tax(7.85%): 0.43  Total Due: 5.88 | Your Order  Hamburger: $4.95  2 Condiment(s): $0.5  Subtotal: $5.45  Tax(7.85%): $0.43  Total Due: $5.88 | Your Order  Hamburger: $4.95  2 Condiment(s): $0.5  Subtotal: $5.45  Tax(7.85%): $0.43  Total Due: $5.88 |
| Cheeseburger - $5.95 | Lettuce  Tomatoes  Onion  Mayonnaise  Mustard | Subtotal: 7.2  Tax(7.85%): 0.57  Total Due: 7.77 | Subtotal: 7.2  Tax(7.85%): 0.57  Total Due: 7.77 | Your Order  Cheeseburger: $5.95  5 Condiment(s): $1.25  Subtotal: $7.2  Tax(7.85%): $0.57  Total Due: $7.77 | Your Order  Cheeseburger: $5.95  5 Condiment(s): $1.25  Subtotal: $7.2  Tax(7.85%): $0.57  Total Due: $7.77 |
| Double Cheeseburger - $6.95 | Lettuce  Tomatoes  Mustard | Subtotal: 7.7  Tax(7.85%): 0.6  Total Due: 8.3 | Subtotal: 7.7  Tax(7.85%): 0.6  Total Due: 8.3 | Your Order  Double Cheeseburger: $5.95  3 Condiment(s): $0.75  Subtotal: $7.7  Tax(7.85%): $0.6  Total Due: $8.3 | Your Order  Double Cheeseburger: $5.95  3 Condiment(s): $0.75  Subtotal: $7.7  Tax(7.85%): $0.6  Total Due: $8.3 |

**\*It is important to note: Exit button terminated program in all of these cases.**

**Assumptions:**

The user of the program will click the place order button when they are ready to make an order, the user will click print receipt button to print the receipt when they want to buy their food and the user will click the exit button to quit the program. The user will click the radio button for selecting which burger they want to order and the user will click in the check boxes, and not outside of the button/boxes, to select the condiment they want. Assume the user only wants to order a burger one at a time and is mutually exclusive unlike the condiments, which they can put as many. Assume the user knows how to use the mouse and can interact on a computer and on the menu program.