Hello, and welcome to the Kwik-E-Mart. My name is Apu and I will be happy to assist with your online shopping experience.

Select an item from the right and add it to your cart. After you are finished filling your cart, click Edit Cart to change selections or Checkout to begin placing your order.

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Item Select GUI

- Click on a button to select item
  - Button background changes color when selected
  - Name, price, and description is displayed
- Quantity selectable via JSpinner
- Adding items to cart enables Edit Cart and Checkout features
- User is limited to having ≤ 9 of any particular item in Cart
  - Attempts to add generate error dialog and force item quantity to 9
Kwik-E-Kart and Edit Cart GUI

- “Kwik-E-Kart” Cart Display
  - Qty, Name, and Total Price of Item
  - Name, price, and description is displayed
  - Order Subtotal is sum of all item totals
- Edit Cart Display
  - Hidden unless “Edit Cart” is clicked in Item Select GUI
  - Locks out Add to Cart and Checkout buttons
  - Quantities are adjustable via JSpinners
  - Deletions are possible via JCheckBox
    - Deleting a line item shifts existing lines up – No empty spaces
  - Update button executes changes
    - Update Cart object
    - Displays new dollar totals
  - Cancel button closes Edit Cart display, resets spinners/checkboxes, and returns to Item Select
Checkout GUI

- Activated by clicking on “Checkout” button in Item Select GUI
- Hides Item Select GUI and Edit Cart GUI / Changes logos
- Contains text fields, combo box, and radio buttons for user payment information
- Zip Code and Card Number text fields require 5 and 16 numeric characters
- Clicking “Place My Order” with incomplete fields generates error
- Clicking “Back” returns to Item Select GUI
  - All info entered except for card number is preserved
Post-Checkout

• After order is successfully placed, order completion dialog appears
• GUI remains in Checkout state with all editable fields set to non-editable or disabled
• User is given option to start a new order
  • Item Select GUI restored, all variables reset, Cart is emptied
Class Hierarchy

- java.lang.Object
  - Cart
      - java.awt.Container
        - java.awt.Panel (implements javax.accessibility.Accessible)
          - java.applet.Applet
            - javax.swing.JApplet (implements javax.accessibility.Accessible, javax.swing.RootPaneContainer)
              - APU
              - apuTester
  - Item
    - BuzzCola
    - ChintzyPop
    - Donut
    - DuffBeer
    - KrustyOs
    - Laramie
    - RadioactiveMan
    - Squishee
    - Tomacco
  - ItemDB
    - java.awt.event.WindowAdapter (implements java.awt.event.WindowFocusListener, java.awt.event.WindowListener, java.awt.event.WindowStateListener)
      - ApplicationClosingWindowListener

Package Class Tree Deprecated Index Help
Credits

• Matt Groening
  – Creator of “The Simpsons”

• Sun Microsystems, Inc. The Java Tutorials
  – http://java.sun.com/docs/books/tutorial/

• Sun Microsystems, Inc. Java SE 6 API Specification
  – http://java.sun.com/javase/6/docs/api/

• Appikatla, Srini. javabeginner.com
  – http://www.javabeginner.com

• Wutka, Mark, et al. Java Expert Solutions