**HIGH CONCEPT DESIGN DOCUMENT**

|  |  |
| --- | --- |
| **YEAR AND SECTION:** BSIT 1-1 | **DATE:** 03-25-2019 |
| **STUDENT NAME:** SUSARA, MARIANO, BUGAY, ROBLES, OLIVAR, MAGLINAO | **PREPARED AND EVALUATED BY:**  PATRICK LUIS M. FRANCISCO, MIT |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **PRODUCT NAME:**  BYTEBOT | | | | | **PROGRAM TYPE:**  TEXT-BASED VIRTUAL ASSISTANT | |
| **PROJECT COMPONENTS:** | | | | | **OBJECTIVE:**  To integrate the OOP concepts learned in the subject by creating a Text-based Virtual Assistant similar to Siri and Cortana. Students should also display their ability to write the code documentations and illustration of class diagrams of the said project. | |
|  | High Concept Design Document |  | Class Diagrams | |
|  | 3-fold User Manual (Legal Size) |  | Code Documentation | |
|  | Actual Software |  | Poster (A4 Photo Paper) | |
| **DESCRIPTION:**  ByteBot is a computer text-based virtual assistant program that can talk and utilizes human friendly conversation using learning algorithm. This chat bot is capable of giving the user an experience to have their personal assistant that is easy to teach, comprehensive, and useful. | | | | | | |
| **LOGO & SCREENSHOTS:** | | | | **C:\Users\gabriel\Desktop\Project Final\Screen Shot\3.PNGC:\Users\gabriel\Desktop\Project Final\Screen Shot\2.PNG** | | **C:\Users\gabriel\Desktop\Project Final\Screen Shot\4.PNG**  C:\Users\gabriel\Desktop\Project Final\Screen Shot\5.PNG |

**CLASS DIAGRAM**

|  |
| --- |
|  |

**CODE DOCUMENTATION**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **Package:** ByteBot | **Description:** | | **ClassName:** ChatBotBrain | This class will serve as the brain for the whole chat bot. It will store knowledge that is needed for the conversation between the user and the chat bot.  Since:  2019-03-28 | |  |  | | **Constructor:** | public ChatBotBrain() | | **Methods inherited from class java.lang.Object:** | clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait | |  |  | | **Method Detail:** | **Description:** | | **analyzeChat** | public java.lang.String analyzeChat(java.lang.String message)  This method checks if there is a word that matches the words stored at KnowledgeDatabase.txt and ResponseDatabase.txt and then responses to the user accordingly.  Parameters:  message - String that sets and gets data from KnowledgeDatabase.txt and ResponseDatabase.txt.  Returns:  "BYTEBOT can't understand you". | | **learn** | public java.lang.String learn(java.lang.String message)  This method accepts, encrypts, and stores knowledge to KnowledgeDatabase.txt. Runs when the user's input has the word "learn".  Parameters:  message - String that passes knowledge to the method to store knowledge taught by the user.  Returns:  "What should I response to that". | | **response** | public java.lang.String response(java.lang.String message)  This method stores the value of the message to the ResponseDatabase.txt.  Parameters:  message - String that passes responses to the method to store responses taught by the user.  Returns:  "Thank you!". | | **draw** | public static void draw()  This method executes D:\\Program Files\\Benbox\\3.7.99\\bin\\benbox.exe by sending the word "draw". | |  |  | | **ClassName:** ChatBotBrain | This class will serve as the Main Frame of the chat bot.  Since:  2019-03-28 | |  |  | | **Constructor: public ChatBotMainFrame()** | Constructor. Creates new form ChatBotMainFrame Initializes components | | **All Implemented Interfaces:** | java.awt.image.ImageObserver, java.awt.MenuContainer, java.io.Serializable, javax.accessibility.Accessible, javax.swing.RootPaneContainer, javax.swing.WindowConstants | | **Methods inherited from class java.lang.Object:** | clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait | | **Nested Class Summary** |  | | **Nested classes/interfaces inherited from class javax.swing.JFrame** | javax.swing.JFrame.AccessibleJFrame | | **Nested classes/interfaces inherited from class java.awt.Frame** | java.awt.Frame.AccessibleAWTFrame | | **Nested classes/interfaces inherited from class java.awt.Window** | java.awt.Window.AccessibleAWTWindow, java.awt.Window.Type | | **Nested classes/interfaces inherited from class java.awt.Container** | java.awt.Container.AccessibleAWTContainer | | **Nested classes/interfaces inherited from class java.awt.Component** | java.awt.Component.AccessibleAWTComponent, java.awt.Component.BaselineResizeBehavior, java.awt.Component.BltBufferStrategy, java.awt.Component.FlipBufferStrategy | |  |  | | **Modifier and Type** | Field and Description | | **javax.swing.JList<java.lang.String>** | jList1 | | **int** | lineLimit | | **javax.swing.DefaultListModel** | listModel | | **int** | localCount | |  |  | | **Fields inherited from class javax.swing.JFrame** | accessibleContext, EXIT\_ON\_CLOSE, rootPane, rootPaneCheckingEnabled | | **Fields inherited from class java.awt.Frame** | CROSSHAIR\_CURSOR, DEFAULT\_CURSOR, E\_RESIZE\_CURSOR, HAND\_CURSOR, ICONIFIED, MAXIMIZED\_BOTH, MAXIMIZED\_HORIZ, MAXIMIZED\_VERT, MOVE\_CURSOR, N\_RESIZE\_CURSOR, NE\_RESIZE\_CURSOR, NORMAL, NW\_RESIZE\_CURSOR, S\_RESIZE\_CURSOR, SE\_RESIZE\_CURSOR, SW\_RESIZE\_CURSOR, TEXT\_CURSOR, W\_RESIZE\_CURSOR, WAIT\_CURSOR | | **Fields inherited from class java.awt.Component** | BOTTOM\_ALIGNMENT, CENTER\_ALIGNMENT, LEFT\_ALIGNMENT, RIGHT\_ALIGNMENT, TOP\_ALIGNMENT | | **Fields inherited from interface javax.swing.WindowConstants** | DISPOSE\_ON\_CLOSE, DO\_NOTHING\_ON\_CLOSE, HIDE\_ON\_CLOSE | | **Fields inherited from interface java.awt.image.ImageObserver** | ABORT, ALLBITS, ERROR, FRAMEBITS, HEIGHT, PROPERTIES, SOMEBITS, WIDTH | | **Methods inherited from class javax.swing.JFrame** | addImpl, createRootPane, frameInit, getAccessibleContext, getContentPane, getDefaultCloseOperation, getGlassPane, getGraphics, getJMenuBar, getLayeredPane, getRootPane, getTransferHandler, isDefaultLookAndFeelDecorated, isRootPaneCheckingEnabled, paramString, processWindowEvent, remove, repaint, setContentPane, setDefaultCloseOperation, setDefaultLookAndFeelDecorated, setGlassPane, setIconImage, setJMenuBar, setLayeredPane, setLayout, setRootPane, setRootPaneCheckingEnabled, setTransferHandler, update | | **Methods inherited from class java.awt.Frame** | addNotify, getCursorType, getExtendedState, getFrames, getIconImage, getMaximizedBounds, getMenuBar, getState, getTitle, isResizable, isUndecorated, remove, removeNotify, setBackground, setCursor, setExtendedState, setMaximizedBounds, setMenuBar, setOpacity, setResizable, setShape, setState, setTitle, setUndecorated | | **Methods inherited from class java.awt.Window** | addPropertyChangeListener, addPropertyChangeListener, addWindowFocusListener, addWindowListener, addWindowStateListener, applyResourceBundle, applyResourceBundle, createBufferStrategy, createBufferStrategy, dispose, getBackground, getBufferStrategy, getFocusableWindowState, getFocusCycleRootAncestor, getFocusOwner, getFocusTraversalKeys, getIconImages, getInputContext, getListeners, getLocale, getModalExclusionType, getMostRecentFocusOwner, getOpacity, getOwnedWindows, getOwner, getOwnerlessWindows, getShape, getToolkit, getType, getWarningString, getWindowFocusListeners, getWindowListeners, getWindows, getWindowStateListeners, hide, isActive, isAlwaysOnTop, isAlwaysOnTopSupported, isAutoRequestFocus, isFocusableWindow, isFocusCycleRoot, isFocused, isLocationByPlatform, isOpaque, isShowing, isValidateRoot, pack, paint, postEvent, processEvent, processWindowFocusEvent, processWindowStateEvent, removeWindowFocusListener, removeWindowListener, removeWindowStateListener, reshape, setAlwaysOnTop, setAutoRequestFocus, setBounds, setBounds, setCursor, setFocusableWindowState, setFocusCycleRoot, setIconImages, setLocation, setLocation, setLocationByPlatform, setLocationRelativeTo, setMinimumSize, setModalExclusionType, setSize, setSize, setType, setVisible, show, toBack, toFront | | **Methods inherited from class java.awt.Container** | add, add, add, add, add, addContainerListener, applyComponentOrientation, areFocusTraversalKeysSet, countComponents, deliverEvent, doLayout, findComponentAt, findComponentAt, getAlignmentX, getAlignmentY, getComponent, getComponentAt, getComponentAt, getComponentCount, getComponents, getComponentZOrder, getContainerListeners, getFocusTraversalPolicy, getInsets, getLayout, getMaximumSize, getMinimumSize, getMousePosition, getPreferredSize, insets, invalidate, isAncestorOf, isFocusCycleRoot, isFocusTraversalPolicyProvider, isFocusTraversalPolicySet, layout, list, list, locate, minimumSize, paintComponents, preferredSize, print, printComponents, processContainerEvent, remove, removeAll, removeContainerListener, setComponentZOrder, setFocusTraversalKeys, setFocusTraversalPolicy, setFocusTraversalPolicyProvider, setFont, transferFocusDownCycle, validate, validateTree | | **Methods inherited from class java.awt.Component** | action, add, addComponentListener, addFocusListener, addHierarchyBoundsListener, addHierarchyListener, addInputMethodListener, addKeyListener, addMouseListener, addMouseMotionListener, addMouseWheelListener, bounds, checkImage, checkImage, coalesceEvents, contains, contains, createImage, createImage, createVolatileImage, createVolatileImage, disable, disableEvents, dispatchEvent, enable, enable, enableEvents, enableInputMethods, firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange, getBaseline, getBaselineResizeBehavior, getBounds, getBounds, getColorModel, getComponentListeners, getComponentOrientation, getCursor, getDropTarget, getFocusListeners, getFocusTraversalKeysEnabled, getFont, getFontMetrics, getForeground, getGraphicsConfiguration, getHeight, getHierarchyBoundsListeners, getHierarchyListeners, getIgnoreRepaint, getInputMethodListeners, getInputMethodRequests, getKeyListeners, getLocation, getLocation, getLocationOnScreen, getMouseListeners, getMouseMotionListeners, getMousePosition, getMouseWheelListeners, getName, getParent, getPeer, getPropertyChangeListeners, getPropertyChangeListeners, getSize, getSize, getTreeLock, getWidth, getX, getY, gotFocus, handleEvent, hasFocus, imageUpdate, inside, isBackgroundSet, isCursorSet, isDisplayable, isDoubleBuffered, isEnabled, isFocusable, isFocusOwner, isFocusTraversable, isFontSet, isForegroundSet, isLightweight, isMaximumSizeSet, isMinimumSizeSet, isPreferredSizeSet, isValid, isVisible, keyDown, keyUp, list, list, list, location, lostFocus, mouseDown, mouseDrag, mouseEnter, mouseExit, mouseMove, mouseUp, move, nextFocus, paintAll, prepareImage, prepareImage, printAll, processComponentEvent, processFocusEvent, processHierarchyBoundsEvent, processHierarchyEvent, processInputMethodEvent, processKeyEvent, processMouseEvent, processMouseMotionEvent, processMouseWheelEvent, removeComponentListener, removeFocusListener, removeHierarchyBoundsListener, removeHierarchyListener, removeInputMethodListener, removeKeyListener, removeMouseListener, removeMouseMotionListener, removeMouseWheelListener, removePropertyChangeListener, removePropertyChangeListener, repaint, repaint, repaint, requestFocus, requestFocus, requestFocusInWindow, requestFocusInWindow, resize, resize, revalidate, setComponentOrientation, setDropTarget, setEnabled, setFocusable, setFocusTraversalKeysEnabled, setForeground, setIgnoreRepaint, setLocale, setMaximumSize, setName, setPreferredSize, show, size, toString, transferFocus, transferFocusBackward, transferFocusUpCycle | | **Methods inherited from class java.lang.Object** | clone, equals, finalize, getClass, hashCode, notify, notifyAll, wait, wait, wait | | **Methods inherited from interface java.awt.MenuContainer** | getFont, postEvent | | **listModel** | public javax.swing.DefaultListModel listModel | | **lineLimit** | public int lineLimit | | **localCount** | public int localCount | | **jList1** | public javax.swing.JList<java.lang.String> jList1 | |  |  | | **Method Detail:** | **Description:** | | **main** | public static void main(java.lang.String[] args)  Parameters:  args - the command line arguments | |  |  | | **Class Name: Intro** | This class will serve as the intro for the whole chat bot program. extends Swing JFrame  Since:  2019-03-28 | | **Modifier and Type: Class** | Intro.progress  Class. | | **Nested classes/interfaces inherited from class javax.swing.JFrame** | javax.swing.JFrame.AccessibleJFrame | | **Nested classes/interfaces inherited from class java.awt.Frame** | java.awt.Frame.AccessibleAWTFrame | | **Nested classes/interfaces inherited from class java.awt.Window** | java.awt.Window.AccessibleAWTWindow, java.awt.Window.Type | | **Nested classes/interfaces inherited from class java.awt.Container** | java.awt.Container.AccessibleAWTContainer | | **Nested classes/interfaces inherited from class java.awt.Component** | java.awt.Component.AccessibleAWTComponent, java.awt.Component.BaselineResizeBehavior, java.awt.Component.BltBufferStrategy, java.awt.Component.FlipBufferStrategy | | **Fields inherited from class javax.swing.JFrame** | accessibleContext, EXIT\_ON\_CLOSE, rootPane, rootPaneCheckingEnabled | | **Fields inherited from class java.awt.Frame** | CROSSHAIR\_CURSOR, DEFAULT\_CURSOR, E\_RESIZE\_CURSOR, HAND\_CURSOR, ICONIFIED, MAXIMIZED\_BOTH, MAXIMIZED\_HORIZ, MAXIMIZED\_VERT, MOVE\_CURSOR, N\_RESIZE\_CURSOR, NE\_RESIZE\_CURSOR, NORMAL, NW\_RESIZE\_CURSOR, S\_RESIZE\_CURSOR, SE\_RESIZE\_CURSOR, SW\_RESIZE\_CURSOR, TEXT\_CURSOR, W\_RESIZE\_CURSOR, WAIT\_CURSOR | | **Fields inherited from class java.awt.Component** | BOTTOM\_ALIGNMENT, CENTER\_ALIGNMENT, LEFT\_ALIGNMENT, RIGHT\_ALIGNMENT, TOP\_ALIGNMENT | | **Fields inherited from interface javax.swing.WindowConstants** | DISPOSE\_ON\_CLOSE, DO\_NOTHING\_ON\_CLOSE, HIDE\_ON\_CLOSE | | **Fields inherited from interface java.awt.image.ImageObserver** | ABORT, ALLBITS, ERROR, FRAMEBITS, HEIGHT, PROPERTIES, SOMEBITS, WIDTH | | **Constructor: public Intro()** | Constructor. Constructs, initializes and display all the components of the Main Frame. Used to set the position of the Main Frame to the center. | | **Methods inherited from class javax.swing.JFrame** | addImpl, createRootPane, frameInit, getAccessibleContext, getContentPane, getDefaultCloseOperation, getGlassPane, getGraphics, getJMenuBar, getLayeredPane, getRootPane, getTransferHandler, isDefaultLookAndFeelDecorated, isRootPaneCheckingEnabled, paramString, processWindowEvent, remove, repaint, setContentPane, setDefaultCloseOperation, setDefaultLookAndFeelDecorated, setGlassPane, setIconImage, setJMenuBar, setLayeredPane, setLayout, setRootPane, setRootPaneCheckingEnabled, setTransferHandler, update | | **Methods inherited from class java.awt.Frame** | addNotify, getCursorType, getExtendedState, getFrames, getIconImage, getMaximizedBounds, getMenuBar, getState, getTitle, isResizable, isUndecorated, remove, removeNotify, setBackground, setCursor, setExtendedState, setMaximizedBounds, setMenuBar, setOpacity, setResizable, setShape, setState, setTitle, setUndecorated | | **Methods inherited from class java.awt.Window** | addPropertyChangeListener, addPropertyChangeListener, addWindowFocusListener, addWindowListener, addWindowStateListener, applyResourceBundle, applyResourceBundle, createBufferStrategy, createBufferStrategy, dispose, getBackground, getBufferStrategy, getFocusableWindowState, getFocusCycleRootAncestor, getFocusOwner, getFocusTraversalKeys, getIconImages, getInputContext, getListeners, getLocale, getModalExclusionType, getMostRecentFocusOwner, getOpacity, getOwnedWindows, getOwner, getOwnerlessWindows, getShape, getToolkit, getType, getWarningString, getWindowFocusListeners, getWindowListeners, getWindows, getWindowStateListeners, hide, isActive, isAlwaysOnTop, isAlwaysOnTopSupported, isAutoRequestFocus, isFocusableWindow, isFocusCycleRoot, isFocused, isLocationByPlatform, isOpaque, isShowing, isValidateRoot, pack, paint, postEvent, processEvent, processWindowFocusEvent, processWindowStateEvent, removeWindowFocusListener, removeWindowListener, removeWindowStateListener, reshape, setAlwaysOnTop, setAutoRequestFocus, setBounds, setBounds, setCursor, setFocusableWindowState, setFocusCycleRoot, setIconImages, setLocation, setLocation, setLocationByPlatform, setLocationRelativeTo, setMinimumSize, setModalExclusionType, setSize, setSize, setType, setVisible, show, toBack, toFront | | **Methods inherited from class java.awt.Container** | add, add, add, add, add, addContainerListener, applyComponentOrientation, areFocusTraversalKeysSet, countComponents, deliverEvent, doLayout, findComponentAt, findComponentAt, getAlignmentX, getAlignmentY, getComponent, getComponentAt, getComponentAt, getComponentCount, getComponents, getComponentZOrder, getContainerListeners, getFocusTraversalPolicy, getInsets, getLayout, getMaximumSize, getMinimumSize, getMousePosition, getPreferredSize, insets, invalidate, isAncestorOf, isFocusCycleRoot, isFocusTraversalPolicyProvider, isFocusTraversalPolicySet, layout, list, list, locate, minimumSize, paintComponents, preferredSize, print, printComponents, processContainerEvent, remove, removeAll, removeContainerListener, setComponentZOrder, setFocusTraversalKeys, setFocusTraversalPolicy, setFocusTraversalPolicyProvider, setFont, transferFocusDownCycle, validate, validateTree | | **Methods inherited from class java.awt.Component** | action, add, addComponentListener, addFocusListener, addHierarchyBoundsListener, addHierarchyListener, addInputMethodListener, addKeyListener, addMouseListener, addMouseMotionListener, addMouseWheelListener, bounds, checkImage, checkImage, coalesceEvents, contains, contains, createImage, createImage, createVolatileImage, createVolatileImage, disable, disableEvents, dispatchEvent, enable, enable, enableEvents, enableInputMethods, firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange, getBaseline, getBaselineResizeBehavior, getBounds, getBounds, getColorModel, getComponentListeners, getComponentOrientation, getCursor, getDropTarget, getFocusListeners, getFocusTraversalKeysEnabled, getFont, getFontMetrics, getForeground, getGraphicsConfiguration, getHeight, getHierarchyBoundsListeners, getHierarchyListeners, getIgnoreRepaint, getInputMethodListeners, getInputMethodRequests, getKeyListeners, getLocation, getLocation, getLocationOnScreen, getMouseListeners, getMouseMotionListeners, getMousePosition, getMouseWheelListeners, getName, getParent, getPeer, getPropertyChangeListeners, getPropertyChangeListeners, getSize, getSize, getTreeLock, getWidth, getX, getY, gotFocus, handleEvent, hasFocus, imageUpdate, inside, isBackgroundSet, isCursorSet, isDisplayable, isDoubleBuffered, isEnabled, isFocusable, isFocusOwner, isFocusTraversable, isFontSet, isForegroundSet, isLightweight, isMaximumSizeSet, isMinimumSizeSet, isPreferredSizeSet, isValid, isVisible, keyDown, keyUp, list, list, list, location, lostFocus, mouseDown, mouseDrag, mouseEnter, mouseExit, mouseMove, mouseUp, move, nextFocus, paintAll, prepareImage, prepareImage, printAll, processComponentEvent, processFocusEvent, processHierarchyBoundsEvent, processHierarchyEvent, processInputMethodEvent, processKeyEvent, processMouseEvent, processMouseMotionEvent, processMouseWheelEvent, removeComponentListener, removeFocusListener, removeHierarchyBoundsListener, removeHierarchyListener, removeInputMethodListener, removeKeyListener, removeMouseListener, removeMouseMotionListener, removeMouseWheelListener, removePropertyChangeListener, removePropertyChangeListener, repaint, repaint, repaint, requestFocus, requestFocus, requestFocusInWindow, requestFocusInWindow, resize, resize, revalidate, setComponentOrientation, setDropTarget, setEnabled, setFocusable, setFocusTraversalKeysEnabled, setForeground, setIgnoreRepaint, setLocale, setMaximumSize, setName, setPreferredSize, show, size, toString, transferFocus, transferFocusBackward, transferFocusUpCycle | | **Methods inherited from class java.lang.Object** | clone, equals, finalize, getClass, hashCode, notify, notifyAll, wait, wait, wait | | **Methods inherited from interface java.awt.MenuContainer** | getFont, postEvent | | **Method: main** | public static void main(java.lang.String[] args)  Parameters:  args - the command line arguments | |

**CODE DOCUMENTATION**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **Package:** GoogleSearch | **Description:** | | **ClassName:** GoogleForm | This class will serve as tool to access the Search Engine of the Google. extends Swing JFrame  Since:  2019-03-28 | | **Nested classes/interfaces inherited from class javax.swing.JFrame** | javax.swing.JFrame.AccessibleJFrame | | **Nested classes/interfaces inherited from class java.awt.Frame** | java.awt.Frame.AccessibleAWTFrame | | **Nested classes/interfaces inherited from class java.awt.Window** | java.awt.Window.AccessibleAWTWindow, java.awt.Window.Type | | **Nested classes/interfaces inherited from class java.awt.Container** | java.awt.Container.AccessibleAWTContainer | | **Nested classes/interfaces inherited from class java.awt.Component** | java.awt.Component.AccessibleAWTComponent, java.awt.Component.BaselineResizeBehavior, java.awt.Component.BltBufferStrategy, java.awt.Component.FlipBufferStrategy | | **Fields inherited from class javax.swing.JFrame** | accessibleContext, EXIT\_ON\_CLOSE, rootPane, rootPaneCheckingEnabled | | **Fields inherited from class java.awt.Frame** | CROSSHAIR\_CURSOR, DEFAULT\_CURSOR, E\_RESIZE\_CURSOR, HAND\_CURSOR, ICONIFIED, MAXIMIZED\_BOTH, MAXIMIZED\_HORIZ, MAXIMIZED\_VERT, MOVE\_CURSOR, N\_RESIZE\_CURSOR, NE\_RESIZE\_CURSOR, NORMAL, NW\_RESIZE\_CURSOR, S\_RESIZE\_CURSOR, SE\_RESIZE\_CURSOR, SW\_RESIZE\_CURSOR, TEXT\_CURSOR, W\_RESIZE\_CURSOR, WAIT\_CURSOR | | **Fields inherited from class java.awt.Component** | BOTTOM\_ALIGNMENT, CENTER\_ALIGNMENT, LEFT\_ALIGNMENT, RIGHT\_ALIGNMENT, TOP\_ALIGNMENT | | **Fields inherited from interface javax.swing.WindowConstants** | DISPOSE\_ON\_CLOSE, DO\_NOTHING\_ON\_CLOSE, HIDE\_ON\_CLOSE | | **Fields inherited from interface java.awt.image.ImageObserver** | ABORT, ALLBITS, ERROR, FRAMEBITS, HEIGHT, PROPERTIES, SOMEBITS, WIDTH | | **Constructors: public GoogleForm()** | Constructor. Constructs, initializes and display all the components of the Main Frame. Used to set the position of the Main Frame to the center. | | **Method: main** | public static void main(java.lang.String[] args)  Parameters:  args - the command line arguments | | **Methods inherited from class javax.swing.JFrame** | addImpl, createRootPane, frameInit, getAccessibleContext, getContentPane, getDefaultCloseOperation, getGlassPane, getGraphics, getJMenuBar, getLayeredPane, getRootPane, getTransferHandler, isDefaultLookAndFeelDecorated, isRootPaneCheckingEnabled, paramString, processWindowEvent, remove, repaint, setContentPane, setDefaultCloseOperation, setDefaultLookAndFeelDecorated, setGlassPane, setIconImage, setJMenuBar, setLayeredPane, setLayout, setRootPane, setRootPaneCheckingEnabled, setTransferHandler, update | | **Methods inherited from class java.awt.Frame** | addNotify, getCursorType, getExtendedState, getFrames, getIconImage, getMaximizedBounds, getMenuBar, getState, getTitle, isResizable, isUndecorated, remove, removeNotify, setBackground, setCursor, setExtendedState, setMaximizedBounds, setMenuBar, setOpacity, setResizable, setShape, setState, setTitle, setUndecorated | | **Methods inherited from class java.awt.Window** | addPropertyChangeListener, addPropertyChangeListener, addWindowFocusListener, addWindowListener, addWindowStateListener, applyResourceBundle, applyResourceBundle, createBufferStrategy, createBufferStrategy, dispose, getBackground, getBufferStrategy, getFocusableWindowState, getFocusCycleRootAncestor, getFocusOwner, getFocusTraversalKeys, getIconImages, getInputContext, getListeners, getLocale, getModalExclusionType, getMostRecentFocusOwner, getOpacity, getOwnedWindows, getOwner, getOwnerlessWindows, getShape, getToolkit, getType, getWarningString, getWindowFocusListeners, getWindowListeners, getWindows, getWindowStateListeners, hide, isActive, isAlwaysOnTop, isAlwaysOnTopSupported, isAutoRequestFocus, isFocusableWindow, isFocusCycleRoot, isFocused, isLocationByPlatform, isOpaque, isShowing, isValidateRoot, pack, paint, postEvent, processEvent, processWindowFocusEvent, processWindowStateEvent, removeWindowFocusListener, removeWindowListener, removeWindowStateListener, reshape, setAlwaysOnTop, setAutoRequestFocus, setBounds, setBounds, setCursor, setFocusableWindowState, setFocusCycleRoot, setIconImages, setLocation, setLocation, setLocationByPlatform, setLocationRelativeTo, setMinimumSize, setModalExclusionType, setSize, setSize, setType, setVisible, show, toBack, toFront | | **Methods inherited from class java.awt.Container** | add, add, add, add, add, addContainerListener, applyComponentOrientation, areFocusTraversalKeysSet, countComponents, deliverEvent, doLayout, findComponentAt, findComponentAt, getAlignmentX, getAlignmentY, getComponent, getComponentAt, getComponentAt, getComponentCount, getComponents, getComponentZOrder, getContainerListeners, getFocusTraversalPolicy, getInsets, getLayout, getMaximumSize, getMinimumSize, getMousePosition, getPreferredSize, insets, invalidate, isAncestorOf, isFocusCycleRoot, isFocusTraversalPolicyProvider, isFocusTraversalPolicySet, layout, list, list, locate, minimumSize, paintComponents, preferredSize, print, printComponents, processContainerEvent, remove, removeAll, removeContainerListener, setComponentZOrder, setFocusTraversalKeys, setFocusTraversalPolicy, setFocusTraversalPolicyProvider, setFont, transferFocusDownCycle, validate, validateTree | | **Methods inherited from class java.awt.Component** | action, add, addComponentListener, addFocusListener, addHierarchyBoundsListener, addHierarchyListener, addInputMethodListener, addKeyListener, addMouseListener, addMouseMotionListener, addMouseWheelListener, bounds, checkImage, checkImage, coalesceEvents, contains, contains, createImage, createImage, createVolatileImage, createVolatileImage, disable, disableEvents, dispatchEvent, enable, enable, enableEvents, enableInputMethods, firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange, getBaseline, getBaselineResizeBehavior, getBounds, getBounds, getColorModel, getComponentListeners, getComponentOrientation, getCursor, getDropTarget, getFocusListeners, getFocusTraversalKeysEnabled, getFont, getFontMetrics, getForeground, getGraphicsConfiguration, getHeight, getHierarchyBoundsListeners, getHierarchyListeners, getIgnoreRepaint, getInputMethodListeners, getInputMethodRequests, getKeyListeners, getLocation, getLocation, getLocationOnScreen, getMouseListeners, getMouseMotionListeners, getMousePosition, getMouseWheelListeners, getName, getParent, getPeer, getPropertyChangeListeners, getPropertyChangeListeners, getSize, getSize, getTreeLock, getWidth, getX, getY, gotFocus, handleEvent, hasFocus, imageUpdate, inside, isBackgroundSet, isCursorSet, isDisplayable, isDoubleBuffered, isEnabled, isFocusable, isFocusOwner, isFocusTraversable, isFontSet, isForegroundSet, isLightweight, isMaximumSizeSet, isMinimumSizeSet, isPreferredSizeSet, isValid, isVisible, keyDown, keyUp, list, list, list, location, lostFocus, mouseDown, mouseDrag, mouseEnter, mouseExit, mouseMove, mouseUp, move, nextFocus, paintAll, prepareImage, prepareImage, printAll, processComponentEvent, processFocusEvent, processHierarchyBoundsEvent, processHierarchyEvent, processInputMethodEvent, processKeyEvent, processMouseEvent, processMouseMotionEvent, processMouseWheelEvent, removeComponentListener, removeFocusListener, removeHierarchyBoundsListener, removeHierarchyListener, removeInputMethodListener, removeKeyListener, removeMouseListener, removeMouseMotionListener, removeMouseWheelListener, removePropertyChangeListener, removePropertyChangeListener, repaint, repaint, repaint, requestFocus, requestFocus, requestFocusInWindow, requestFocusInWindow, resize, resize, revalidate, setComponentOrientation, setDropTarget, setEnabled, setFocusable, setFocusTraversalKeysEnabled, setForeground, setIgnoreRepaint, setLocale, setMaximumSize, setName, setPreferredSize, show, size, toString, transferFocus, transferFocusBackward, transferFocusUpCycle | | **Methods inherited from class java.lang.Object** | clone, equals, finalize, getClass, hashCode, notify, notifyAll, wait, wait, wait | | **Methods inherited from interface java.awt.MenuContainer** | getFont, postEvent | |

**CODE DOCUMENTATION**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **Package: MusicPlayer** | **Description:** | | **ClassName:** mp3Player | This class will serve as MP3 Player for the chat bot extends Swing JFrame  Since: | | **Nested classes/interfaces inherited from class javax.swing.JFrame** | javax.swing.JFrame.AccessibleJFrame | | **Nested classes/interfaces inherited from class java.awt.Frame** | java.awt.Frame.AccessibleAWTFrame | | **Nested classes/interfaces inherited from class java.awt.Window** | java.awt.Window.AccessibleAWTWindow, java.awt.Window.Type | | **Nested classes/interfaces inherited from class java.awt.Container** | java.awt.Container.AccessibleAWTContainer | | **Nested classes/interfaces inherited from class java.awt.Component** | java.awt.Component.AccessibleAWTComponent, java.awt.Component.BaselineResizeBehavior, java.awt.Component.BltBufferStrategy, java.awt.Component.FlipBufferStrategy | | **Fields inherited from class javax.swing.JFrame** | accessibleContext, EXIT\_ON\_CLOSE, rootPane, rootPaneCheckingEnabled | | **Fields inherited from class java.awt.Frame** | CROSSHAIR\_CURSOR, DEFAULT\_CURSOR, E\_RESIZE\_CURSOR, HAND\_CURSOR, ICONIFIED, MAXIMIZED\_BOTH, MAXIMIZED\_HORIZ, MAXIMIZED\_VERT, MOVE\_CURSOR, N\_RESIZE\_CURSOR, NE\_RESIZE\_CURSOR, NORMAL, NW\_RESIZE\_CURSOR, S\_RESIZE\_CURSOR, SE\_RESIZE\_CURSOR, SW\_RESIZE\_CURSOR, TEXT\_CURSOR, W\_RESIZE\_CURSOR, WAIT\_CURSOR | | **Fields inherited from class java.awt.Component** | BOTTOM\_ALIGNMENT, CENTER\_ALIGNMENT, LEFT\_ALIGNMENT, RIGHT\_ALIGNMENT, TOP\_ALIGNMENT | | **Fields inherited from interface javax.swing.WindowConstants** | DISPOSE\_ON\_CLOSE, DO\_NOTHING\_ON\_CLOSE, HIDE\_ON\_CLOSE | | **Fields inherited from interface java.awt.image.ImageObserver** | ABORT, ALLBITS, ERROR, FRAMEBITS, HEIGHT, PROPERTIES, SOMEBITS, WIDTH | | **Constructor: mp3Player** | public mp3Player() | | **Method:** | **Description** | | **updateList** | public void updateList()  This method records the updated song list of MP3 Player. | | **add** | public void add()  This method adds new song in the MP3 player song list. | | **remove** | public void remove()  This method removes a song in the MP3 player song list | | **play** | public void play()  This method starts playing a song that is selected at the MP3 player song list. | | **next** | public void next()  This method stops the current playing song and starts playing the next song in the play list. | | **previous** | public void previous()  This method stops the current playing song and starts playing the previous song in the play list. | | **main** | public static void main(java.lang.String[] args)  Parameters:  args - the command line arguments | | **Methods inherited from class javax.swing.JFrame** | addImpl, createRootPane, frameInit, getAccessibleContext, getContentPane, getDefaultCloseOperation, getGlassPane, getGraphics, getJMenuBar, getLayeredPane, getRootPane, getTransferHandler, isDefaultLookAndFeelDecorated, isRootPaneCheckingEnabled, paramString, processWindowEvent, remove, repaint, setContentPane, setDefaultCloseOperation, setDefaultLookAndFeelDecorated, setGlassPane, setIconImage, setJMenuBar, setLayeredPane, setLayout, setRootPane, setRootPaneCheckingEnabled, setTransferHandler, update | | **Methods inherited from class java.awt.Frame** | addNotify, getCursorType, getExtendedState, getFrames, getIconImage, getMaximizedBounds, getMenuBar, getState, getTitle, isResizable, isUndecorated, remove, removeNotify, setBackground, setCursor, setExtendedState, setMaximizedBounds, setMenuBar, setOpacity, setResizable, setShape, setState, setTitle, setUndecorated | | **Methods inherited from class java.awt.Window** | addPropertyChangeListener, addPropertyChangeListener, addWindowFocusListener, addWindowListener, addWindowStateListener, applyResourceBundle, applyResourceBundle, createBufferStrategy, createBufferStrategy, dispose, getBackground, getBufferStrategy, getFocusableWindowState, getFocusCycleRootAncestor, getFocusOwner, getFocusTraversalKeys, getIconImages, getInputContext, getListeners, getLocale, getModalExclusionType, getMostRecentFocusOwner, getOpacity, getOwnedWindows, getOwner, getOwnerlessWindows, getShape, getToolkit, getType, getWarningString, getWindowFocusListeners, getWindowListeners, getWindows, getWindowStateListeners, hide, isActive, isAlwaysOnTop, isAlwaysOnTopSupported, isAutoRequestFocus, isFocusableWindow, isFocusCycleRoot, isFocused, isLocationByPlatform, isOpaque, isShowing, isValidateRoot, pack, paint, postEvent, processEvent, processWindowFocusEvent, processWindowStateEvent, removeWindowFocusListener, removeWindowListener, removeWindowStateListener, reshape, setAlwaysOnTop, setAutoRequestFocus, setBounds, setBounds, setCursor, setFocusableWindowState, setFocusCycleRoot, setIconImages, setLocation, setLocation, setLocationByPlatform, setLocationRelativeTo, setMinimumSize, setModalExclusionType, setSize, setSize, setType, setVisible, show, toBack, toFront | | **Methods inherited from class java.awt.Container** | add, add, add, add, add, addContainerListener, applyComponentOrientation, areFocusTraversalKeysSet, countComponents, deliverEvent, doLayout, findComponentAt, findComponentAt, getAlignmentX, getAlignmentY, getComponent, getComponentAt, getComponentAt, getComponentCount, getComponents, getComponentZOrder, getContainerListeners, getFocusTraversalPolicy, getInsets, getLayout, getMaximumSize, getMinimumSize, getMousePosition, getPreferredSize, insets, invalidate, isAncestorOf, isFocusCycleRoot, isFocusTraversalPolicyProvider, isFocusTraversalPolicySet, layout, list, list, locate, minimumSize, paintComponents, preferredSize, print, printComponents, processContainerEvent, remove, removeAll, removeContainerListener, setComponentZOrder, setFocusTraversalKeys, setFocusTraversalPolicy, setFocusTraversalPolicyProvider, setFont, transferFocusDownCycle, validate, validateTree | | **Methods inherited from class java.awt.Component** | action, add, addComponentListener, addFocusListener, addHierarchyBoundsListener, addHierarchyListener, addInputMethodListener, addKeyListener, addMouseListener, addMouseMotionListener, addMouseWheelListener, bounds, checkImage, checkImage, coalesceEvents, contains, contains, createImage, createImage, createVolatileImage, createVolatileImage, disable, disableEvents, dispatchEvent, enable, enable, enableEvents, enableInputMethods, firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange, getBaseline, getBaselineResizeBehavior, getBounds, getBounds, getColorModel, getComponentListeners, getComponentOrientation, getCursor, getDropTarget, getFocusListeners, getFocusTraversalKeysEnabled, getFont, getFontMetrics, getForeground, getGraphicsConfiguration, getHeight, getHierarchyBoundsListeners, getHierarchyListeners, getIgnoreRepaint, getInputMethodListeners, getInputMethodRequests, getKeyListeners, getLocation, getLocation, getLocationOnScreen, getMouseListeners, getMouseMotionListeners, getMousePosition, getMouseWheelListeners, getName, getParent, getPeer, getPropertyChangeListeners, getPropertyChangeListeners, getSize, getSize, getTreeLock, getWidth, getX, getY, gotFocus, handleEvent, hasFocus, imageUpdate, inside, isBackgroundSet, isCursorSet, isDisplayable, isDoubleBuffered, isEnabled, isFocusable, isFocusOwner, isFocusTraversable, isFontSet, isForegroundSet, isLightweight, isMaximumSizeSet, isMinimumSizeSet, isPreferredSizeSet, isValid, isVisible, keyDown, keyUp, list, list, list, location, lostFocus, mouseDown, mouseDrag, mouseEnter, mouseExit, mouseMove, mouseUp, move, nextFocus, paintAll, prepareImage, prepareImage, printAll, processComponentEvent, processFocusEvent, processHierarchyBoundsEvent, processHierarchyEvent, processInputMethodEvent, processKeyEvent, processMouseEvent, processMouseMotionEvent, processMouseWheelEvent, removeComponentListener, removeFocusListener, removeHierarchyBoundsListener, removeHierarchyListener, removeInputMethodListener, removeKeyListener, removeMouseListener, removeMouseMotionListener, removeMouseWheelListener, removePropertyChangeListener, removePropertyChangeListener, repaint, repaint, repaint, requestFocus, requestFocus, requestFocusInWindow, requestFocusInWindow, resize, resize, revalidate, setComponentOrientation, setDropTarget, setEnabled, setFocusable, setFocusTraversalKeysEnabled, setForeground, setIgnoreRepaint, setLocale, setMaximumSize, setName, setPreferredSize, show, size, toString, transferFocus, transferFocusBackward, transferFocusUpCycle | | **Methods inherited from class java.lang.Object** | clone, equals, finalize, getClass, hashCode, notify, notifyAll, wait, wait, wait | | **Methods inherited from interface java.awt.MenuContainer** | getFont, postEvent | | **ClassName:** PlayList | This class serve as music selector and list multiple songs to be added on the MP3 player. | | **Methods inherited from class java.lang.Object** | clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait | | **Constructor: PlayList** | public PlayList() | | **Method:** | **Description**: | | **add** | public void add(javax.swing.JFrame frame)  This method checks the chosen music file if it is valid or not, valid files will be added to song list and if not it will not be added.  Parameters:  frame - | | **getListSong** | public java.util.ArrayList getListSong()  This method gets song list.  Returns:  listSong. | | **saveAsPlaylist** | public void saveAsPlaylist(javax.swing.JFrame frame) | |

**SOFTWARE RUBRIC**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CRITERIA | WEIGHT | MASTERY (4) | PROFICIENT (3) | DEVELOPING (2) | NOVICE (1) |
| Functionality | 5 |  |  |  |  |
| Usability | 5 |  |  |  |  |
| Reliability | 5 |  |  |  |  |
| TOTAL | /60 |  |  |  |  |

**CLASS DIAGRAM RUBRIC**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CRITERIA | WEIGHT | MASTERY (4) | PROFICIENT (3) | DEVELOPING (2) | NOVICE (1) |
| Neatness | 2 |  |  |  |  |
| Accuracy | 5 |  |  |  |  |
| TOTAL | /28 |  |  |  |  |

**CODE DOCUMENTATION RUBRIC**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CRITERIA | WEIGHT | MASTERY (4) | PROFICIENT (3) | DEVELOPING (2) | NOVICE (1) |
| Neatness | 2 |  |  |  |  |
| Completeness | 3 |  |  |  |  |
| Correctness | 5 |  |  |  |  |
| TOTAL | /40 |  |  |  |  |

**USER MANUAL RUBRIC**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CRITERIA | WEIGHT | MASTERY (4) | PROFICIENT (3) | DEVELOPING (2) | NOVICE (1) |
| Grammar | 2 |  |  |  |  |
| Content | 2 |  |  |  |  |
| Visual Appeal | 2 |  |  |  |  |
| TOTAL | /24 |  |  |  |  |

|  |
| --- |
| **TOTAL GRADE: \_\_\_\_\_\_\_\_\_\_\_\_\_ / 152** |