**Software Documentation**

**1**

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**Class Car**

­­­­­­­­­­­­­public class Car

This class will represent a car.

Author:

Rebecca Whisnant

**Field Summary**

**All Fields**

|  |  |  |
| --- | --- | --- |
| **Modifier and Type** | **Fields** | **Description** |
| private String | carManufacturer | Is a string object that holds the manufacturer of the car. |
| private int | carYear | Is an int that holds the year of the car. |
| private String | carModel | Is a string object that holds the model of the car. |
| private String | CarVIN | Is a string object that holds the VIN of the car. |
| private String | carBodyStyle | Is a string object that holds the body style of the car. |
| private double | carValue | Is a double that holds the value of the car. |

**Constructor Summary**

**All Constructors**

|  |  |
| --- | --- |
| **Constructor** | **Description** |
| Car(String manufacturer, int year, String model, String vin, String bodystyle, double value) | Initialize the variables to an empty car list. |

**Method Summary**

**All Methods**

|  |  |  |
| --- | --- | --- |
| **Modifier and Type** | **Methods** | **Description** |
| public String | getManufacturer | Gets the values stored in the carManufacturer field. |
| public int | getYear | Gets the values stored in the carYear field. |
| public String | getModel | Gets the values stored in the carModel field. |
| public String | getVIN | Gets the values stored in the carVIN field. |
| public String | getBodyStyle | Gets the values stored in the carBodyStyle field. |
| public double | getValue | Gets the values stored in the carValue field. |
| public void | setManufacturer | Sets the values stored in the manufacturer field. |
| public void | setYear | Sets the values stored in the year field. |
| public void | setModel | Sets the values stored in the model field. |
| public void | setVIN | Sets the values stored in the vin field. |
| public void | setBodyStyle | Sets the values stored in the bodystyle field. |
| public void | setValue | Sets the values stored in the value field. |
| public String | toString | Creates a one-line description of the car. |

**2**

­­­­­­ **Class MainMenu**

­­­­­­­­­­­­­public class MainMenu extends JFrame

This class will represent the main menu.

Author:

Rebecca Whisnant

**Field Summary**

**All Fields**

|  |  |  |
| --- | --- | --- |
| **Modifier and Type** | **Fields** | **Description** |
| private JPanel | contentPane | Provides general-purpose containers for lightweight components. |
| private BlackBook | book | Provides the text file information. |
| private JLabel | lblSearchForA | Displays a label that says, “Search for a Car”. |
| private JLabel | lblWelcomeToBlack | Displays a label that says, “Welcome to Black Book”. |
| private JLabel | lblUpdateTheSystem | Displays a label that says, “Update the System”. |
| private JLabel | lblAddCar | Displays a label that says, “Add a Car”. |
| private JLabel | lblRemoveCar | Displays a label that says, “Remove a Car”. |
| private JButton | btnAdd | Displays a button to activate the car being added. |
| private JButton | btnUpdate | Displays a button to activate the car being updated. |
| private JButton | btnRemove | Displays a button to activate the car being removed. |
| private JButton | btnSearch | Displays a button to activate the car being searched. |

**Constructor Summary**

**All Constructors**

|  |  |
| --- | --- |
| **Constructor** | **Description** |
| MainMenu() | Constructs a new menu with an empty label. |

**Method Summary**

**All Methods**

|  |  |  |
| --- | --- | --- |
| **Modifier and Type** | **Methods** | **Description** |
| public void | actionPerformed(ActionEvent e) | Used when an action occurs. |
| public void | windowClosing(WindowEvent e) | Used when a window is in the process of being closed. |

**3**

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**Class BlackBook**

­­­­­­­­­­­­­public class BlackBook

This class will represent a used car manual guide.

Author:

Rebecca Whisnant

**Field Summary**

**All Fields**

|  |  |  |
| --- | --- | --- |
| **Modifier and Type** | **Fields** | **Description** |
| private ArrayList<Car> | carList | An array list that allows the user to search for a car. |
| private ArrayList<Car> | carResultList | An array list that allows the user to search for their results. |

**Constructor Summary**

**All Constructors**

|  |  |
| --- | --- |
| **Constructor** | **Description** |
| BlackBook() | Constructs a new black book with an empty label. |

**Method Summary**

**All Methods**

|  |  |  |
| --- | --- | --- |
| **Modifier and Type** | **Methods** | **Description** |
| public ArrayList<Car> | search(String manufacturer, int year, String model) | Searches for a car. |
| public void | update(String manufacturer, int year, String model, String vin, String bodystyle, double value) | Updates the car in the text file. |
| public boolean | remove(int year, String vin) | Removes the car. |
| public void | saveFile() | Saves a file. |
| public void | readFile() | Reads a file. |
| public ArrayList<Car> | getCarList() | Gets the values stored in the carList. |
| public ArrayList<Car> | getCarResultList() | Gets the values stored in the carResultList. |
| public static void | main | Runs the read file and save file methods in the carList and carResultList fields. |

**4**

­­­­­­**Class Add**

­­­­­­­­­­­­­public class Add extends JFrame

This class will add a car to the text file.

Author:

Rebecca Whisnant

**Field Summary**

**All Fields**

|  |  |  |
| --- | --- | --- |
| **Modifier and Type** | **Fields** | **Description** |
| private JPanel | contentPane | Provides general-purpose containers for lightweight components. |
| private BlackBook | book | Provides the text file information. |
| private JLabel | lblAddCar | Displays a label that says, “Add Car”. |
| private JTextField | txtManufacturer | Displays a text box for the user to enter the manufacturer of the car. |
| private JTextField | txtYear | Displays a text box for the user to enter the year of the car. |
| private JTextField | txtModel | Displays a text box for the user to enter the model of the car. |
| private JTextField | txtVIN | Displays a text box for the user to enter the VIN of the car. |
| private JTextField | txtBodyStyle | Displays a text box for the user to enter the body style of the car. |
| private JTextField | txtValue | Displays a text box for the user to enter the value of the car. |
| private JButton | btnAdd | Displays a button to activate the car being added. |
| private JButton | btnReturn | Displays a button to return the user back to the main menu. |
| private JLabel | show\_validation\_here | Displays a label that says “”. |
| private JLabel | lblInvalidEntry | Displays a label that says “”. |
| private JLabel | lblManufacturer | Displays a label that says, “Car Manufacturer”. |
| private JLabel | lblYear | Displays a label that says, “Car Year”. |
| private JLabel | lblVIN | Displays a label that says, “VIN”. |
| private JLabel | lblModel | Displays a label that says, “Car Model”. |
| private JLabel | lblBodyStyle | Displays a label that says, “Body Style”. |
| private JLabel | lblValue | Displays a label that says, “Value”. |
| private JLabel | lblBackGround | Displays a label with an image in it to set the background screen. |

**Constructor Summary**

**All Constructors**

|  |  |
| --- | --- |
| **Constructor** | **Description** |
| Add(BlackBook book) | Initialize the variables to a car list. |

**Method Summary**

**All Methods**

|  |  |  |
| --- | --- | --- |
| **Modifier and Type** | **Methods** | **Description** |
| public void | keyReleased(KeyEvent e) | Used when a key has been released. |
| public void | keyPressed(KeyEvent e) | Used when a key has been pressed. |
| public void | mouseClicked(MouseEvent e) | Used when the mouse button has been clicked (pressed and released) on a component. |
| public void | actionPerformed(ActionEvent e) | Used when an action occurs. |
| public void | windowClosing(WindowEvent e) | Used when a window is in the process of being closed. |
| private boolean | checkInput() | Checks the user’s input. |
| public void | keyTyped(KeyEvent e) | Used when a key has been typed. |

**5**

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**Class Remove**

­­­­­­­­­­­­­public class Remove extends JFrame

This class will remove a car from the text file.

Author:

Rebecca Whisnant

**Field Summary**

**All Fields**

|  |  |  |
| --- | --- | --- |
| **Modifier and Type** | **Fields** | **Description** |
| private JPanel | contentPane | Provides general-purpose containers for lightweight components. |
| private BlackBook | book | Provides the text file information. |
| private JTextField | txtYear | Displays a text box for the user to enter the year of the car. |
| private JTextField | txtVIN | Displays a text box for the user to enter the VIN of the car. |
| private JButton | btnRemove | Displays a button to activate the car being removed. |
| private JButton | btnReturn | Displays a button to return the user back to the main menu. |
| private JLabel | lblYear | Displays a label that says, “Car Year”. |
| private JLabel | lblVin | Displays a label that says, “VIN”. |
| private Jlabel | lblRemoveCar | Displays a label that says, “Remove Car”. |
| private JLabel | show\_validation\_here | Displays a label that says “”. |
| private JLabel | lblBackGround | Displays a label with an image in it to set the background screen. |

**Constructor Summary**

**All Constructors**

|  |  |
| --- | --- |
| **Constructor** | **Description** |
| Remove(BlackBook book) | Initialize the variables to a car list. |

**Method Summary**

**All Methods**

|  |  |  |
| --- | --- | --- |
| **Modifier and Type** | **Methods** | **Description** |
| public void | keyReleased(KeyEvent e) | Used when a key has been released. |
| public void | keyPressed(KeyEvent e) | Used when a key has been pressed. |
| public void | mouseClicked(MouseEvent e) | Used when the mouse button has been clicked (pressed and released) on a component. |
| public void | actionPerformed(ActionEvent e) | Used when an action occurs. |
| public void | windowClosing(WindowEvent e) | Used when a window is in the process of being closed. |
| private boolean | checkInput() | Checks the user’s input. |
| public void | keyTyped(KeyEvent e) | Used when a key has been typed. |

**6**

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**Class Search**

­­­­­­­­­­­­­public class Search extends JFrame

This class will search for a car from the text file.

Author:

Rebecca Whisnant

**Field Summary**

**All Fields**

|  |  |  |
| --- | --- | --- |
| **Modifier and Type** | **Fields** | **Description** |
| private JPanel | contentPane | Provides general-purpose containers for lightweight components. |
| private BlackBook | book | Provides the text file information. |
| private final JButton | btnSearch | Displays a button to activate the car being searched. |
| private JLabel | lblChooseManufacturer | Displays a label that says, “Choose a Car Manufacturer”. |
| private JLabel | lblChooseYear | Displays a label that says, “Choose a Car Year”. |
| private JLabel | lblChooseModel | Displays a label that says, “Choose a Car Model”. |
| private JLabel | lblBackGround | Displays a label with an image in it to set the background screen. |
| private JLabel | show\_validation\_here | Displays a label that says “”. |
| private JComboBox | carManufacturer | Displays a comboBox for the user to select a car manufacturer. |
| private JComboBox | carYear | Displays a comboBox for the user to select a car year. |
| private JComboBox | carModel | Displays a comboBox for the user to select a car model. |
| private JButton | btnReturn | Displays a button to return the user back to the main menu. |

**Constructor Summary**

**All Constructors**

|  |  |
| --- | --- |
| **Constructor** | **Description** |
| Search(BlackBook book) | Initialize the variables to a car list. |

**Method Summary**

**All Methods**

|  |  |  |
| --- | --- | --- |
| **Modifier and Type** | **Methods** | **Description** |
| public void | actionPerformed(ActionEvent e) | Used when an action occurs. |
| public void | windowClosing(WindowEvent e) | Used when a window is in the process of being closed. |

**7**

­­­­­­**Class Update**

­­­­­­­­­­­­­public class Update extends JFrame

This class will update a car to the text file.

Author:

Rebecca Whisnant

**Field Summary**

**All Fields**

|  |  |  |
| --- | --- | --- |
| **Modifier and Type** | **Fields** | **Description** |
| private JPanel | contentPane | Provides general-purpose containers for lightweight components. |
| private BlackBook | book | Provides the text file information. |
| private JTextField | txtManufacturer | Displays a text box for the user to enter the manufacturer of the car. |
| private JTextField | txtYear | Displays a text box for the user to enter the year of the car. |
| private JTextField | txtModel | Displays a text box for the user to enter the model of the car. |
| private JTextField | txtVIN | Displays a text box for the user to enter the VIN of the car. |
| private JTextField | txtBodyStyle | Displays a text box for the user to enter the body style of the car. |
| private JTextField | txtValue | Displays a text box for the user to enter the value of the car. |
| private JComboBox | comboBoxUpdateSystem | Displays a comboBox for the user to select a car to update. |
| private JButton | btnUpdate | Displays a button to activate the car being updated. |
| private JButton | btnReturn | Displays a button to return the user back to the main menu. |
| private JLabel | show\_validation\_here | Displays a label that says “”. |
| private JLabel | lblInvalidEntry | Displays a label that says “”. |
| private JLabel | lblCarManufacturer | Displays a label that says, “Car Manufacturer”. |
| private JLabel | lblCarYear | Displays a label that says, “Car Year”. |
| private JLabel | lblCarVin | Displays a label that says, “VIN”. |
| private JLabel | lblCarModel | Displays a label that says, “Car Model”. |
| private JLabel | lblCarBodyStyle | Displays a label that says, “Body Style”. |
| private JLabel | lblCarValue1 | Displays a label that says, “Value”. |
| private JLabel | lblBackGround | Displays a label with an image in it to set the background screen. |
| private JLabel | lblUpdateSystem | Displays a label that says, “Choose a Car to Update”. |
| private JLabel | lblUpdateCar | Displays a label that says, “Update Car”. |

**Constructor Summary**

**All Constructors**

|  |  |
| --- | --- |
| **Constructor** | **Description** |
| Update(BlackBook book) | Initialize the variables to a car list. |

**Method Summary**

**All Methods**

|  |  |  |
| --- | --- | --- |
| **Modifier and Type** | **Methods** | **Description** |
| public void | keyReleased(KeyEvent e) | Used when a key has been released. |
| Public void | keyPressed(KeyEvent e) | Used when a key has been pressed. |
| public void | mouseClicked(MouseEvent e) | Used when the mouse button has been clicked (pressed and released) on a component. |
| Public void | actionPerformed(ActionEvent e) | Used when an action occurs. |
| Public void | windowClosing(WindowEvent e) | Used when a window is in the process of being closed. |
| private boolean | checkInput() | Checks the user’s input. |
| public void | keyTyped(KeyEvent e) | Used when a key has been typed. |

**8**

­­­­­­**Class Results**

­­­­­­­­­­­­­public class Results extends JFrame

This class will give the users results of a searched car.

Author:

Rebecca Whisnant

**Field Summary**

**All Fields**

|  |  |  |
| --- | --- | --- |
| **Modifier and Type** | **Fields** | **Description** |
| private JPanel | contentPane | Provides general-purpose containers for lightweight components. |
| private ArrayList<Car> | car\_result\_list |  |
| private JButton | btnReturn | Displays a button to return the user back to the main menu. |
| private JLabel | lblBmwX | Displays the users search in a label. |
| private JTable | table | Displays a table of search results. |
| private JScrollPane | scrollpane | Displays a scroll pane in the table. |
| private String | s | Is a string object that holds “”. |

**Constructor Summary**

**All Constructors**

|  |  |
| --- | --- |
| **Constructor** | **Description** |
| Results(ArrayList<Car> car\_result\_list) | Initialize the variables to a car result list. |

**Method Summary**

**All Methods**

|  |  |  |
| --- | --- | --- |
| **Modifier and Type** | **Methods** | **Description** |
| public void | actionPerformed(ActionEvent e) | Used when an action occurs. |
| public void | windowClosing(WindowEvent e) | Used when a window is in the process of being closed. |
| public String | getColumnName(int column) | Gets the header and calls the string column. |
| public int | getColumnCount() | Gets the number of columns. |
| public int | getRowCount() | Gets the number of rows. |
| public Object | getValueAt(int row, int column) | Gets the values stored in the rows and columns. |