

logic

Class AddTask

```

java.lang.Object
  logic.Task
    logic.AddTask
  
```

All Implemented Interfaces:

java.lang.Cloneable, java.lang.Comparable<Task>

```

public class AddTask
extends Task
  
```

Constructor Summary

Constructors

Constructor and Description

AddTask(java.lang.String userInput)

AddTask(java.lang.String userInput,
java.util.ArrayList<java.util.ArrayList<java.lang.String>> dateTimeArgs)

Method Summary

Methods inherited from class logic.Task

```

clone, cloneOf, compareTo, editWith, equals, get_cmd, get_completionState,
get_endDate, get_endTime, get_index, get_messageToUserFail,
get_messageToUserSuccess, get_startDate, get_startTime, get_task, is_changed,
isEqualCmd, isEqualMsgFail, isEqualMsgSuccess, isEqualTask, isSameEndDate,
isSameEndTime, isSameStartDate, isSameStartTime, isSuccessul, set_changeDataFlag,
set_cmd, set_Complete, set_endDate, set_endTime, set_Incomplete, set_index,
set_messageToUserFail, set_messageToUserSuccess, set_startDate, set_startTime,
set_task, setDateTimeForTask, setMessageErrorCustom
  
```

Methods inherited from class java.lang.Object

```

getClass, hashCode, notify, notifyAll, toString, wait, wait, wait
  
```

Constructor Detail

AddTask

```
public AddTask(java.lang.String userInput)
```

AddTask

```
public AddTask(java.lang.String userInput,  
               java.util.ArrayList<java.util.ArrayList<java.lang.String>> dateTimeArgs)
```

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ui.Controllers

Class AutoCompleteCommands

java.lang.Object
ui.Controllers.AutoCompleteCommands

```
public class AutoCompleteCommands
extends java.lang.Object
```

Constructor Summary

Constructors

Constructor and Description

AutoCompleteCommands ()

Method Summary

All Methods Static Methods Concrete Methods

Modifier and Type	Method and Description
static void	autoComplete (javafx.scene.control.TextField userInput, javafx.scene.text.Text feedback) Auto completes and corrects command input by users

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

AutoCompleteCommands

```
public AutoCompleteCommands()
```

Method Detail

autoComplete

```
public static void autoComplete(javafx.scene.control.TextField userInput,  
                               javafx.scene.text.Text feedback)
```

Auto completes and corrects command input by users

Parameters:

`userInput` - This is the user input from `commandLineInterface`

`feedback` - This is the main feedback from `commandLineInterface`

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logic

Class CalendarTask

java.lang.Object

logic.Task

logic.CalendarTask

All Implemented Interfaces:java.lang.Cloneable, java.lang.Comparable<[Task](#)>

```
public class CalendarTask
extends Task
```

Constructor Summary

Constructors

Constructor and Description

CalendarTask(java.lang.String userInput)

Method Summary

Methods inherited from class logic.Task

```
clone, cloneOf, compareTo, editWith, equals, get_cmd,
get_completionState, get_endDate, get_endTime, get_index,
get_messageToUserFail, get_messageToUserSuccess, get_startDate,
get_startTime, get_task, is_changed, isEqualCmd, isEqualMsgFail,
isEqualMsgSuccess, isEqualTask, isSameEndDate, isSameEndTime,
isSameStartDate, isSameStartTime, isSuccesful, set_changeDataFlag,
set_cmd, set_Complete, set_endDate, set_endTime, set_Incomplete,
set_index, set_messageToUserFail, set_messageToUserSuccess,
set_startDate, set_startTime, set_task, setDateTimeForTask,
setMessageErrorCustom
```

Methods inherited from class java.lang.Object

```
getClass, hashCode, notify, notifyAll, toString, wait, wait, wait
```

Constructor Detail

CalendarTask

```
public CalendarTask(java.lang.String userInput)
```

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logic

Class ClearTask

java.lang.Object
 logic.Task
 logic.ClearTask

All Implemented Interfaces:

java.lang.Cloneable, java.lang.Comparable<Task>

public class **ClearTask**
extends Task

Constructor Summary

Constructors

Constructor and Description

ClearTask(java.lang.String userInput)

ClearTask(java.lang.String userInput,
java.util.ArrayList<java.util.ArrayList<java.lang.String>> dateTimeArgs)

Method Summary

Methods inherited from class logic.Task

clone, cloneOf, compareTo, editWith, equals, get_cmd, get_completionState, get_endDate, get_endTime, get_index, get_messageToUserFail, get_messageToUserSuccess, get_startDate, get_startTime, get_task, is_changed, isEqualCmd, isEqualMsgFail, isEqualMsgSuccess, isEqualTask, isSameEndDate, isSameEndTime, isSameStartDate, isSameStartTime, isSuccessful, set_changeDataFlag, set_cmd, set_Complete, set_endDate, set_endTime, set_Incomplete, set_index, set_messageToUserFail, set_messageToUserSuccess, set_startDate, set_startTime, set_task, setDateTimeForTask, setMessageErrorCustom

Methods inherited from class java.lang.Object

getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

ClearTask

```
public ClearTask(java.lang.String userInput)
```

ClearTask

```
public ClearTask(java.lang.String userInput,  
                 java.util.ArrayList<java.util.ArrayList<java.lang.String>> dateTimeArgs)
```

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logic

Class DisplayTask

java.lang.Object
 logic.Task
 logic.DisplayTask

All Implemented Interfaces:
java.lang.Cloneable, java.lang.Comparable<Task>

public class **DisplayTask**
extends Task

Constructor Summary

Constructors
Constructor and Description
DisplayTask (java.lang.String userInput)
DisplayTask (java.lang.String userInput, java.util.ArrayList<java.util.ArrayList<java.lang.String>> dateTimeArgs)

Method Summary

Methods inherited from class logic.Task
clone, cloneOf, compareTo, editWith, equals, get_cmd, get_completionState, get_endDate, get_endTime, get_index, get_messageToUserFail, get_messageToUserSuccess, get_startDate, get_startTime, get_task, is_changed, isEqualCmd, isEqualMsgFail, isEqualMsgSuccess, isEqualTask, isSameEndDate, isSameEndTime, isSameStartDate, isSameStartTime, isSuccesful, set_changeDataFlag, set_cmd, set_Complete, set_endDate, set_endTime, set_Incomplete, set_index, set_messageToUserFail, set_messageToUserSuccess, set_startDate, set_startTime, set_task, setDateTimeForTask, setMessageErrorCustom
Methods inherited from class java.lang.Object
getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

DisplayTask

```
public DisplayTask(java.lang.String userInput)
```

DisplayTask

```
public DisplayTask(java.lang.String userInput,  
                  java.util.ArrayList<java.util.ArrayList<java.lang.String>> dateTimeArgs)
```

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logic

Class EditTask

```
java.lang.Object
  logic.Task
    logic.EditTask
```

All Implemented Interfaces:

```
java.lang.Cloneable, java.lang.Comparable<Task>
```

```
public class EditTask
  extends Task
```

Constructor Summary

Constructors

Constructor and Description

```
EditTask(java.lang.String userInput)
```

```
EditTask(java.lang.String userInput,
  java.util.ArrayList<java.util.ArrayList<java.lang.String>> dateTimeArgs)
```

Method Summary

Methods inherited from class logic.Task

```
clone, cloneOf, compareTo, editWith, equals, get_cmd, get_completionState,
get_endDate, get_endTime, get_index, get_messageToUserFail,
get_messageToUserSuccess, get_startDate, get_startTime, get_task, is_changed,
isEqualCmd, isEqualMsgFail, isEqualMsgSuccess, isEqualTask, isSameEndDate,
isSameEndTime, isSameStartDate, isSameStartTime, isSuccessful, set_changeDataFlag,
set_cmd, set_Complete, set_endDate, set_endTime, set_Incomplete, set_index,
set_messageToUserFail, set_messageToUserSuccess, set_startDate, set_startTime,
set_task, setDateTimeForTask, setMessageErrorCustom
```

Methods inherited from class java.lang.Object

```
getClass, hashCode, notify, notifyAll, toString, wait, wait, wait
```

Constructor Detail

EditTask

```
public EditTask(java.lang.String userInput)
```

EditTask

```
public EditTask(java.lang.String userInput,  
                java.util.ArrayList<java.util.ArrayList<java.lang.String>> dateTimeArgs)
```

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parser

Class EventParser

java.lang.Object
parser.EventParser

```
public class EventParser
extends java.lang.Object
```

Constructor Summary

Constructors

Constructor and Description

[EventParser\(\)](#)

Method Summary

All Methods

Static Methods

Concrete Methods

Modifier and Type	Method and Description
static java.lang.String	parseEvent (java.lang.String userInput) Parses the event phrase from a user Input

Methods inherited from class java.lang.Object

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Constructor Detail

EventParser

```
public EventParser()
```

Method Detail

parseEvent

```
public static java.lang.String parseEvent(java.lang.String userInput)
```

Parses the event phrase from a user Input

Parameters:

`userInput` -

Returns:

event phrase, with date, time and command word removed.

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logic

Class ExitTask

java.lang.Object
 logic.Task
 logic.ExitTask

All Implemented Interfaces:

java.lang.Cloneable, java.lang.Comparable<Task>

```
public class ExitTask
extends Task
```

Constructor Summary

Constructors

Constructor and Description

ExitTask (java.lang.String userInput)
--

Method Summary

Methods inherited from class logic.Task

clone, cloneOf, compareTo, editWith, equals, get_cmd, get_completionState, get_endDate, get_endTime, get_index, get_messageToUserFail, get_messageToUserSuccess, get_startDate, get_startTime, get_task, is_changed, isEqualCmd, isEqualMsgFail, isEqualMsgSuccess, isEqualTask, isSameEndDate, isSameEndTime, isSameStartDate, isSameStartTime, isSuccesful, set_changeDataFlag, set_cmd, set_Complete, set_endDate, set_endTime, set_Incomplete, set_index, set_messageToUserFail, set_messageToUserSuccess, set_startDate, set_startTime, set_task, setDateTimeForTask, setMessageErrorCustom
--

Methods inherited from class java.lang.Object

getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

ExitTask

```
public ExitTask(java.lang.String userInput)
```

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ui.Controllers

Class FeedbackGenerator

java.lang.Object
ui.Controllers.FeedbackGenerator

```
public class FeedbackGenerator
extends java.lang.Object
```

Constructor Summary

Constructors

Constructor and Description

FeedbackGenerator()

Method Summary

All Methods Static Methods Concrete Methods

Modifier and Type	Method and Description
static void	clearFeedback (javafx.scene.text.Text feedback) Clears the text from feedback
static void	generateAddFeedback (javafx.scene.text.Text feedback) Generates are add feedback
static void	generateAutoCompleteFeedback (javafx.scene.text.Text feedback, java.lang.String command) Generates feedback after auto complete
static void	generateDefaultFeedback (javafx.scene.text.Text feedback) Generates are default feedback
static void	generateDeleteFeedback (javafx.scene.text.Text feedback) Generates are delete feedback
static void	generateEditFeedback (javafx.scene.text.Text feedback) Generates are edit feedback

static void	generateEventClashFeedback (javafx.scene.text.Text feedback) Generates feedback for event clashes
static void	generateHelpFeedback (javafx.scene.text.Text feedback) Generates assisting feedback feedback
static void	generateInvalidHelpFeedback (javafx.scene.text.Text feedback) Generates feedback for invalid
static void	generateInvalidMainFeedback (javafx.scene.text.Text feedback) Generates feedback for invalid
static void	generateMarkFeedback (javafx.scene.text.Text feedback) Generates feedback for mark
static void	generateNullFeedback (javafx.scene.text.Text feedback) Generates feedback for empty input
static void	generateRedoFeedback (javafx.scene.text.Text feedback, java.lang.String lastInput) Generates feedback for redo
static void	generateSearchFeedback (javafx.scene.text.Text feedback) Generates feedback for search
static void	generateTipFeedback (javafx.scene.text.Text feedback) Generates are tip for feedback
static void	generateUndoFeedback (javafx.scene.text.Text feedback, java.lang.String lastInput) Generates feedback for undo
static void	generateUnmarkFeedback (javafx.scene.text.Text feedback) Generates feedback for unmark

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

FeedbackGenerator

```
public FeedbackGenerator()
```

Method Detail

generateDefaultFeedback

```
public static void generateDefaultFeedback(javafx.scene.text.Text feedback)
```

Generates are default feedback

Parameters:

feedback - This is the main feedback from commandListInterface

generateAutoCompleteFeedback

```
public static void generateAutoCompleteFeedback(javafx.scene.text.Text feedback,  
                                                  java.lang.String command)
```

Generates feedback after auto complete

Parameters:

feedback -

command -

generateAddFeedback

```
public static void generateAddFeedback(javafx.scene.text.Text feedback)
```

Generates are add feedback

Parameters:

feedback - This is the secondary feedback from commandListInterface

generateDeleteFeedback

```
public static void generateDeleteFeedback(javafx.scene.text.Text feedback)
```

Generates are delete feedback

Parameters:

feedback - This is the secondary feedback from commandListInterface

generateEditFeedback

```
public static void generateEditFeedback(javafx.scene.text.Text feedback)
```

Generates are edit feedback

Parameters:

feedback - This is the secondary feedback from commandListInterface

generateMarkFeedback

```
public static void generateMarkFeedback(javafx.scene.text.Text feedback)
```

Generates feedback for mark

Parameters:

feedback - This is the secondary feedback from commandListInterface

generateUnmarkFeedback

```
public static void generateUnmarkFeedback(javafx.scene.text.Text feedback)
```

Generates feedback for unmark

Parameters:

feedback - This is the secondary feedback from commandListInterface

generateSearchFeedback

```
public static void generateSearchFeedback(javafx.scene.text.Text feedback)
```

Generates feedback for search

Parameters:

feedback - This is the main feedback from commandListInterface

generateInvalidHelpFeedback

```
public static void generateInvalidHelpFeedback(javafx.scene.text.Text feedback)
```

Generates feedback for invalid

Parameters:

feedback - This is the secondary feedback from commandListInterface

generateInvalidMainFeedback

```
public static void generateInvalidMainFeedback(javafx.scene.text.Text feedback)
```

Generates feedback for invalid

Parameters:

feedback - This is the main feedback from commandListInterface

generateNullFeedback

```
public static void generateNullFeedback(javafx.scene.text.Text feedback)
```

Generates feedback for empty input

Parameters:

feedback - This is the main feedback from commandListInterface

generateHelpFeedback

```
public static void generateHelpFeedback(javafx.scene.text.Text feedback)
```

Generates assisting feedback feedback

Parameters:

feedback - This is the main feedback from commandListInterface

generateTipFeedback

```
public static void generateTipFeedback(javafx.scene.text.Text feedback)
```

Generates are tip for feedback

Parameters:

feedback - This is the main feedback from commandListInterface

generateRedoFeedback

```
public static void generateRedoFeedback(javafx.scene.text.Text feedback,  
                                         java.lang.String lastInput)
```

Generates feedback for redo

Parameters:

feedback -

lastInput - This is the input prior to undo

generateUndoFeedback

```
public static void generateUndoFeedback(javafx.scene.text.Text feedback,  
                                       java.lang.String lastInput)
```

Generates feedback for undo

Parameters:

feedback - This is the secondary feedback from commandListInterface

lastInput - This is the most recent input

generateEventClashFeedback

```
public static void generateEventClashFeedback(javafx.scene.text.Text feedback)
```

Generates feedback for event clashes

Parameters:

feedback - This is the secondary feedback from commandListInterface

clearFeedback

```
public static void clearFeedback(javafx.scene.text.Text feedback)
```

Clears the text from feedback

Parameters:

feedback - This is the main feedback from commandListInterface

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ui.Controllers.HelpCommands

Class Help

java.lang.Object
ui.Controllers.HelpCommands.Help

public class **Help**
extends java.lang.Object

Constructor Summary

Constructors

Constructor and Description

Help(java.lang.String command, java.lang.String format)
Constructor method

Method Summary

All Methods Instance Methods Concrete Methods

Modifier and Type	Method and Description
java.lang.String	getHelpCommand () Gets command name
java.lang.String	getHelpFormat () Gets command format
void	setHelpCommand (java.lang.String command) Sets the command name
void	setHelpFormat (java.lang.String format) Sets the command format

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

Help

```
public Help(java.lang.String command,  
            java.lang.String format)
```

Constructor method

Parameters:

command - This is the command name

format - This is the format for the command

Method Detail

getHelpCommand

```
public java.lang.String getHelpCommand()
```

Gets command name

Returns:

the command name

getHelpFormat

```
public java.lang.String getHelpFormat()
```

Gets command format

Returns:

the command format

setHelpCommand

```
public void setHelpCommand(java.lang.String command)
```

Sets the command name

Parameters:

command - This is the command name

setHelpFormat

```
public void setHelpFormat(java.lang.String format)
```

Sets the command format

Parameters:

format - This is the command format

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ui.Controllers.HelpCommands

Class HelpCommandStorage

java.lang.Object
ui.Controllers.HelpCommands.HelpCommandStorage

```
public class HelpCommandStorage
extends java.lang.Object
```

Constructor Summary

Constructors

Constructor and Description

[HelpCommandStorage\(\)](#)

Method Summary

All Methods Static Methods Concrete Methods

Modifier and Type	Method and Description
static java.util.ArrayList<java.util.ArrayList<java.lang.String>>	getHelpList() Generates the helpList

Methods inherited from class java.lang.Object

`equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait`

Constructor Detail

HelpCommandStorage

```
public HelpCommandStorage()
```

Method Detail

getHelpList

```
public static java.util.ArrayList<java.util.ArrayList<java.lang.String>> getHelpList()
```

Generates the helpList

Returns:

ArrayList> This is the entire list of help command and format

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ui.Controllers

Class HelpPageController

java.lang.Object
ui.Controllers.HelpPageController

```
public class HelpPageController
extends java.lang.Object
```

Constructor Summary

Constructors

Constructor and Description

[HelpPageController\(\)](#)

Method Summary

All Methods

Instance Methods

Concrete Methods

Modifier and Type	Method and Description
void	initialize() Constructor method

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructor Detail

HelpPageController

```
public HelpPageController()
```

Method Detail

initialize

```
public void initialize()
```

Constructor method

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logic

Class HelpTask

```
java.lang.Object
  logic.Task
    logic.HelpTask
```

All Implemented Interfaces:

```
java.lang.Cloneable, java.lang.Comparable<Task>
```

```
public class HelpTask
  extends Task
```

Constructor Summary

Constructors

Constructor and Description

```
HelpTask(java.lang.String userInput)
```

```
HelpTask(java.lang.String userInput,
  java.util.ArrayList<java.util.ArrayList<java.lang.String>> dateTimeArgs)
```

Method Summary

Methods inherited from class logic.Task

```
clone, cloneOf, compareTo, editWith, equals, get_cmd, get_completionState,
get_endDate, get_endTime, get_index, get_messageToUserFail,
get_messageToUserSuccess, get_startDate, get_startTime, get_task, is_changed,
isEqualCmd, isEqualMsgFail, isEqualMsgSuccess, isEqualTask, isSameEndDate,
isSameEndTime, isSameStartDate, isSameStartTime, isSuccessful, set_changeDataFlag,
set_cmd, set_Complete, set_endDate, set_endTime, set_Incomplete, set_index,
set_messageToUserFail, set_messageToUserSuccess, set_startDate, set_startTime,
set_task, setDateTimeForTask, setMessageErrorCustom
```

Methods inherited from class java.lang.Object

```
getClass, hashCode, notify, notifyAll, toString, wait, wait, wait
```

Constructor Detail

HelpTask

```
public HelpTask(java.lang.String userInput)
```

HelpTask

```
public HelpTask(java.lang.String userInput,  
                java.util.ArrayList<java.util.ArrayList<java.lang.String>> dateTimeArgs)
```

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parser

Class IndexParser

java.lang.Object
parser.IndexParser

public class **IndexParser**
extends java.lang.Object

Constructor Summary

Constructors

Constructor and Description

IndexParser()

Method Summary

All Methods Static Methods Concrete Methods

Modifier and Type

Method and Description

static int **parseIndex**(java.lang.String userInputEvent)

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

IndexParser

public IndexParser()

Method Detail

parseIndex

```
public static int parseIndex(java.lang.String userInputEvent)
```

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parser

Class InvalidInputException

java.lang.Object
 java.lang.Throwable
 java.lang.Exception
 parser.InvalidInputException

All Implemented Interfaces:

java.io.Serializable

```
public class InvalidInputException
extends java.lang.Exception
```

See Also:

Serialized Form

Constructor Summary

Constructors

Constructor and Description

`InvalidInputException()`
`InvalidInputException(java.lang.String messageToUser)`

Method Summary

All Methods Instance Methods Concrete Methods

Modifier and Type	Method and Description
java.lang.String	<code>getMessage()</code>
void	<code>setMessage(java.lang.String newMessage)</code>

Methods inherited from class java.lang.Throwable

addSuppressed, fillInStackTrace, getCause, getLocalizedMessage, getStackTrace, getSuppressed, initCause, printStackTrace,

`printStackTrace, printStackTrace, setStackTrace, toString`

Methods inherited from class `java.lang.Object`

`equals, getClass, hashCode, notify, notifyAll, wait, wait, wait`

Constructor Detail

`InvalidInputException`

```
public InvalidInputException()
```

`InvalidInputException`

```
public InvalidInputException(java.lang.String messageToUser)
```

Method Detail

`setMessage`

```
public void setMessage(java.lang.String newMessage)
```

`getMessage`

```
public java.lang.String getMessage()
```

Overrides:

`getMessage` in class `java.lang.Throwable`

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logic

Class InvalidTask

java.lang.Object
 logic.Task
 InvalidTask

All Implemented Interfaces:
java.lang.Cloneable, java.lang.Comparable<Task>

public class InvalidTask
extends Task

Constructor Summary

Constructors

Constructor and Description

InvalidTask(java.lang.String userInput)

Method Summary

Methods inherited from class logic.Task

clone, cloneOf, compareTo, editWith, equals, get_cmd, get_completionState, get_endDate, get_endTime, get_index, get_messageToUserFail, get_messageToUserSuccess, get_startDate, get_startTime, get_task, is_changed, isEqualCmd, isEqualMsgFail, isEqualMsgSuccess, isEqualTask, isSameEndDate, isSameEndTime, isSameStartDate, isSameStartTime, isSuccesful, set_changeDataFlag, set_cmd, set_Complete, set_endDate, set_endTime, set_Incomplete, set_index, set_messageToUserFail, set_messageToUserSuccess, set_startDate, set_startTime, set_task, setDateTimeForTask, setMessageErrorCustom

Methods inherited from class java.lang.Object

getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

InvalidTask

```
public InvalidTask(java.lang.String userInput)
```

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parser

Class KeywordConstraints

java.lang.Object
 parser.KeywordConstraints

```
public class KeywordConstraints
extends java.lang.Object
```

Constructor Summary

Constructors

Constructor and Description

[KeywordConstraints\(\)](#)

Method Summary

Methods inherited from class java.lang.Object

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Constructor Detail

KeywordConstraints

```
public KeywordConstraints()
```

ui.Controllers

Class ListInterfaceController

java.lang.Object
ui.Controllers.ListInterfaceController

public class ListInterfaceController
extends java.lang.Object

Constructor Summary

Constructors
Constructor and Description
ListInterfaceController()

Method Summary

All Methods	Instance Methods	Concrete Methods
Modifier and Type	Method and Description	
void	closeToDoList()	Remove to-do list from view
javafx.collections.ObservableList<javafx.scene.layout.HBox>	getCompleted()	Gets the list of completed tasks
javafx.scene.control.ListView<javafx.scene.layout.HBox>	getList()	Gets the entire list pane from todoListController
javafx.scene.control.TabPane	getTabPane()	Gets tab pane
javafx.collections.ObservableList<javafx.scene.layout.HBox>	getTasks()	Gets the list of incomplete tasks
void	init(MainGUIController mainController)	Constructor method
void	loopTaskList()	Refreshes task list and display the new task list if there are any changes
void	openToDoList()	Loads to-do list into view

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

ListInterfaceController

```
public ListInterfaceController()
```

Method Detail

init

```
public void init(MainGUIController mainController)
```

Constructor method

Parameters:

mainController - The primary controller linking this and the other controllers

loopTaskList

```
public void loopTaskList()
```

Refreshes task list and display the new task list if there are any changes

openToDoList

```
public void openToDoList()
```

Loads to-do list into view

closeToDoList

```
public void closeToDoList()
```

Remove to-do list from view

getTabPane

```
public javafx.scene.control.TabPane getTabPane()
```

Gets tab pane

Returns:

TabPane The tab pane containing filter tabs

getTasks

```
public javafx.collections.ObservableList<javafx.scene.layout.HBox> getTasks()
```

Gets the list of incomplete tasks

Returns:

ObservableList List of incomplete task in HBox

getCompleted

```
public javafx.collections.ObservableList<javafx.scene.layout.HBox> getCompleted()
```

Gets the list of completed tasks

Returns:

ObservableList List of completed Tasks in HBox

getList

```
public javafx.scene.control.ListView<javafx.scene.layout.HBox> getList()
```

Gets the entire list pane from todoListController

Returns:

ListView The list view pane

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shared

Class LogHandler

java.lang.Object
shared.LogHandler

```
public class LogHandler
extends java.lang.Object
```

Constructor Summary

Constructors

Constructor and Description

[LogHandler\(\)](#)

Method Summary

All Methods

Static Methods

Concrete Methods

Modifier and Type	Method and Description
-------------------	------------------------

static java.util.logging.Logger	retriveLog()
---------------------------------	------------------------------

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructor Detail

LogHandler

```
public LogHandler()
```

Method Detail

retriveLog

```
public static java.util.logging.Logger retriveLog()
```

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logic

Class LogicMain

java.lang.Object
 logic.LogicMain

```
public class LogicMain
extends java.lang.Object
```

Constructor Summary

Constructors

Constructor and Description

<code>LogicMain()</code>
LogicMain() Initialise LogicMain and its dependencies

Method Summary

All Methods Instance Methods Concrete Methods

Modifier and Type	Method and Description
java.util.ArrayList<Task>	<code>getCompleteTasksForUI()</code> Method to return list of completed Tasks
java.util.ArrayList<Task>	<code>getIncompleteTasksForUI()</code> Method to return list of incomplete tasks
java.util.ArrayList<Task>	<code>getOperatingTasksForUI()</code> Method to return list of operatingTasks
void	<code>operatingToComplete()</code> Method to change the contents of operatingTasks to that of Complete List
void	<code>operatingToIncomplete()</code> Method to change the contents of operatingTasks to that of Incomplete List

void

operatingToMaster()

Method to change the contents of operatingTasks to that of Master List

java.lang.String

processCommand(java.lang.String userInput)

Method processes user input by calling dependencies Parser and LogicHandler

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

LogicMain

```
public LogicMain()
```

LogicMain() Initialise LogicMain and its dependencies

Method Detail

processCommand

```
public java.lang.String processCommand(java.lang.String userInput)
```

Method processes user input by calling dependencies Parser and LogicHandler

Parameters:

userInput - is the input received from UI.

Returns:

feedBack message generated by command.

getOperatingTasksForUI

```
public java.util.ArrayList<Task> getOperatingTasksForUI()
```

Method to return list of operatingTasks

Returns:

operatingTasks

getCompleteTasksForUI

```
public java.util.ArrayList<Task> getCompleteTasksForUI()
```

Method to return list of completed Tasks

Returns:

completedTasks

getIncompleteTasksForUI

```
public java.util.ArrayList<Task> getIncompleteTasksForUI()
```

Method to return list of incomplete tasks

Returns:

incompleteTasks

operatingToMaster

```
public void operatingToMaster()
```

Method to change the contents of operatingTasks to that of Master List

operatingToIncomplete

```
public void operatingToIncomplete()
```

Method to change the contents of operatingTasks to that of Incomplete List

operatingToComplete

```
public void operatingToComplete()
```

Method to change the contents of operatingTasks to that of Complete List

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ui.Application

Class MainGUI

java.lang.Object
 javafx.application.Application
 ui.Application.MainGUI

```
public class MainGUI
extends javafx.application.Application
```

Nested Class Summary

Nested classes/interfaces inherited from class javafx.application.Application

javafx.application.Application.Parameters

Field Summary

Fields inherited from class javafx.application.Application

STYLESHEET_CASPIAN, STYLESHEET_MODENA

Constructor Summary

Constructors	
Constructor and Description	
MainGUI ()	

Method Summary

All Methods	Static Methods	Instance Methods	Concrete Methods
Modifier and Type	Method and Description		

```
static void      main(java.lang.String[] args)
void             start(javafx.stage.Stage stage)
```

Methods inherited from class `javafx.application.Application`

`getHostServices`, `getParameters`, `getUserAgentStylesheet`, `init`, `launch`, `launch`, `notifyPreloader`, `setUserAgentStylesheet`, `stop`

Methods inherited from class `java.lang.Object`

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Constructor Detail

MainGUI

```
public MainGUI()
```

Method Detail

start

```
public void start(javafx.stage.Stage stage)
               throws java.lang.Exception
```

Specified by:

`start` in class `javafx.application.Application`

Throws:

`java.lang.Exception`

main

```
public static void main(java.lang.String[] args)
```


ui.Controllers

Class MainGUIController

java.lang.Object
ui.Controllers.MainGUIController

```
public class MainGUIController
extends java.lang.Object
```

Constructor Summary

Constructors

Constructor and Description

[MainGUIController\(\)](#)

Method Summary

All Methods Instance Methods Concrete Methods

Modifier and Type	Method and Description
javafx.scene.layout.AnchorPane	getBackgroundPane() Gets the background for the application
javafx.scene.control.TextField	getCommandLine() Gets user input field from commandLineController
javafx.collections.ObservableList<javafx.scene.layout.HBox>	getCompletedList() Gets the list of completed tasks from todoListController
java.util.ArrayList< Task >	getCompletedTasksFromLogic() Gets list of completed tasks from Logic
javafx.scene.text.Text	getHelpFeedback() Gets secondary feedback from commandLineController
java.util.ArrayList< Task >	getIncompleteTasksFromLogic() Gets list of incomplete tasks from Logic
javafx.scene.control.ListView<javafx.scene.layout.HBox>	getList() Gets the entire list pane from todoListController
LogicMain	getLogic() Gets an instance of Logic
javafx.scene.text.Text	getMainFeedback() Gets main feedback from commandLineController
javafx.scene.layout.VBox	getMainPane() Gets the center pane that holds supporting features

javafx.scene.control.TabPane

javafx.collections.ObservableList<javafx.scene.layout.HBox>

java.lang.String

void

void

void

java.lang.String

void

void

void

void

void

void

void

void

from supportFeaturesController

getTabPane()

Gets tab pane from todoListController

getTaskList()

Gets the list of incomplete tasks from todoListController

getTutorialMode()

Gets tutorial flag in string from commandLineController

initialize()

Constructor for MainGUIController

openMainPane()

Loads the center pane into view

openToDoList()

Loads to-do list into view

passInputToLogic(java.lang.String input)

Passes the user input to Logic

refreshToDoList()

Refreshes the to-do list

removeMainPane()

Removes the center main from view

removeToDoList()

Remove to-do list from view

renderCalendar()

Displays calendar

renderHelpPage()

Displays help page

setOperatingListAsComplete()

Sets operating list to display complete tasks

setOperatingListAsIncomplete()

Sets operating list to display incomplete tasks

startTutorialMode()

Starts tutorial

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

MainGUIController

```
public MainGUIController()
```

Method Detail

initialize

```
public void initialize()  
    throws java.io.IOException
```

Constructor for MainGUIController

Throws:

java.io.IOException - If an I/O Error occurs

getBackgroundPane

```
public javafx.scene.layout.AnchorPane getBackgroundPane()
```

Gets the background for the application

Returns:

AnchorPane background for application

getMainFeedback

```
public javafx.scene.text.Text getMainFeedback()
```

Gets main feedback from commandLineController

Returns:

Text main feedback

getHelpFeedback

```
public javafx.scene.text.Text getHelpFeedback()
```

Gets secondary feedback from commandLineController

Returns:

Text secondary feedback

getTutorialMode

```
public java.lang.String getTutorialMode()
```

Gets tutorial flag in string from commandLineController

Returns:

String Flag for indication of whether tutorial is ON or OFF

getCommandLine

```
public javafx.scene.control.TextField getCommandLine()
```

Gets user input field from commandLineController

Returns:

TextField This is the user input field

refreshToDoList

```
public void refreshToDoList()  
    throws java.io.IOException
```

Refreshes the to-do list

Throws:

java.io.IOException

removeToDoList

```
public void removeToDoList()
```

Remove to-do list from view

openToDoList

```
public void openToDoList()
```

Loads to-do list into view

getTaskList

```
public javafx.collections.ObservableList<javafx.scene.layout.HBox> getTaskList()
```

Gets the list of incomplete tasks from todoListController

Returns:

ObservableList List of incomplete task in HBox

getCompletedList

```
public javafx.collections.ObservableList<javafx.scene.layout.HBox> getCompletedList()
```

Gets the list of completed tasks from todoListController

Returns:

ObservableList List of completed Tasks in HBox

getTabPane

```
public javafx.scene.control.TabPane getTabPane()
```

Gets tab pane from todoListController

Returns:

TabPane The tab pane containing filter tabs

getList

```
public javafx.scene.control.ListView<javafx.scene.layout.HBox> getList()
```

Gets the entire list pane from todoListController

Returns:

ListView The list view pane

getMainPane

```
public javafx.scene.layout.VBox getMainPane()
```

Gets the center pane that holds supporting features from supportFeaturesController

Returns:

VBox This is the center pane for several features

openMainPane

```
public void openMainPane()
```

Loads the center pane into view

removeMainPane

```
public void removeMainPane()
```

Removes the center main from view

startTutorialMode

```
public void startTutorialMode()  
                throws java.io.IOException
```

Starts tutorial

Throws:

java.io.IOException - If an I/O Error occurs

renderHelpPage

```
public void renderHelpPage()  
                throws java.io.IOException
```

Displays help page

Throws:

java.io.IOException - If an I/O Error occurs

renderCalendar

```
public void renderCalendar()  
                throws java.io.IOException
```

Displays calendar

Throws:

java.io.IOException - If an I/O Error occurs

getLogic

```
public LogicMain getLogic()
```

Gets an instance of Logic

Returns:

LogicMain This is an instance of LogicMain object

passInputToLogic

```
public java.lang.String passInputToLogic(java.lang.String input)
```

Passes the user input to Logic

Parameters:

input - This is the user input

Returns:

String This is the feedback from Logic

getIncompleteTasksFromLogic

```
public java.util.ArrayList<Task> getIncompleteTasksFromLogic()
```

Gets list of incomplete tasks from Logic

Returns:

ArrayList List of incomplete TaskObjects

getCompletedTasksFromLogic

```
public java.util.ArrayList<Task> getCompletedTasksFromLogic()
```

Gets list of completed tasks from Logic

Returns:

ArrayList List of completed TaskObjects

setOperatingListAsComplete

```
public void setOperatingListAsComplete()
```

Sets operating list to display complete tasks

setOperatingListAsIncomplete

```
public void setOperatingListAsIncomplete()
```

Sets operating list to display incomplete tasks

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logic

Class MarkComplete

```
java.lang.Object
  logic.Task
    logic.MarkComplete
```

All Implemented Interfaces:

java.lang.Cloneable, java.lang.Comparable<Task>

```
public class MarkComplete
extends Task
```

Constructor Summary

Constructors

Constructor and Description

MarkComplete(java.lang.String userInput)**MarkComplete**(java.lang.String userInput,
java.util.ArrayList<java.util.ArrayList<java.lang.String>> dateTimeArgs)

Method Summary

Methods inherited from class logic.Task

```
clone, cloneOf, compareTo, editWith, equals, get_cmd, get_completionState, get_endDate,
get_endTime, get_index, get_messageToUserFail, get_messageToUserSuccess, get_startDate,
get_startTime, get_task, is_changed, isEqualCmd, isEqualMsgFail, isEqualMsgSuccess,
isEqualTask, isSameEndDate, isSameEndTime, isSameStartDate, isSameStartTime,
isSuccesful, set_changeDataFlag, set_cmd, set_Complete, set_endDate, set_endTime,
set_Incomplete, set_index, set_messageToUserFail, set_messageToUserSuccess,
set_startDate, set_startTime, set_task, setDateTimeForTask, setMessageErrorCustom
```

Methods inherited from class java.lang.Object

```
getClass, hashCode, notify, notifyAll, toString, wait, wait, wait
```

Constructor Detail

MarkComplete

```
public MarkComplete(java.lang.String userInput)
```


MarkComplete

```
public MarkComplete(java.lang.String userInput,  
                    java.util.ArrayList<java.util.ArrayList<java.lang.String>> dateTimeArgs)
```

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logic

Class MarkIncomplete

java.lang.Object
 [logic.Task](#)
 logic.MarkIncomplete

All Implemented Interfaces:

java.lang.Cloneable, java.lang.Comparable<Task>

```
public class MarkIncomplete
extends Task
```

Constructor Summary

Constructors

Constructor and Description

MarkIncomplete(java.lang.String userInput)

MarkIncomplete(java.lang.String userInput,
java.util.ArrayList<java.util.ArrayList<java.lang.String>> dateTimeArgs)

Method Summary

Methods inherited from class [logic.Task](#)

clone, cloneOf, compareTo, editWith, equals, get_cmd, get_completionState, get_endDate, get_endTime, get_index, get_messageToUserFail, get_messageToUserSuccess, get_startDate, get_startTime, get_task, is_changed, isEqualCmd, isEqualMsgFail, isEqualMsgSuccess, isEqualTask, isSameEndDate, isSameEndTime, isSameStartDate, isSameStartTime, isSuccessful, set_changeDataFlag, set_cmd, set_Complete, set_endDate, set_endTime, set_Incomplete, set_index, set_messageToUserFail, set_messageToUserSuccess, set_startDate, set_startTime, set_task, setDateTimeForTask, setMessageErrorCustom

Methods inherited from class java.lang.Object

getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

MarkIncomplete

```
public MarkIncomplete(java.lang.String userInput)
```

MarkIncomplete

```
public MarkIncomplete(java.lang.String userInput,  
                      java.util.ArrayList<java.util.ArrayList<java.lang.String>> dateTimeArgs)
```

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ui.Controllers

Class NotificationRenderer

java.lang.Object
ui.Controllers.NotificationRenderer

```
public class NotificationRenderer
extends java.lang.Object
```

Constructor Summary

Constructors

Constructor and Description

NotificationRenderer()
Constructor method

Method Summary

All Methods

Instance Methods

Concrete Methods

Modifier and Type

Method and Description

void	loadNotification (int todo, int flag) Loads notification into view
------	--

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

NotificationRenderer

```
public NotificationRenderer()
```

Constructor method

Method Detail

loadNotification

```
public void loadNotification(int todo,  
                           int flag)
```

Loads notification into view

Parameters:

todo - This is the number of upcoming to-dos

flag - This is the indication of whether it is a daily or time reminder

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parser

Class Parser

java.lang.Object
parser.Parser

```
public class Parser
extends java.lang.Object
```

Constructor Summary

Constructors

Constructor and Description

[Parser\(\)](#)

Method Summary

All Methods Static Methods Concrete Methods

Modifier and Type

Method and Description

static COMMAND_TYPE [getCommand](#)(java.lang.String userInput)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructor Detail

Parser

```
public Parser()
```

Method Detail

getCommand

```
public static COMMAND_TYPE getCommand(java.lang.String userInput)
```

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parser

Class ParserMain

java.lang.Object
parser.ParserMain

public class **ParserMain**
extends java.lang.Object

Constructor Summary

Constructors

Constructor and Description

[ParserMain\(\)](#)

Method Summary

All Methods Instance Methods Concrete Methods

Modifier and Type	Method and Description
java.util.ArrayList<java.util.ArrayList<java.lang.String>>	processDateTime (java.lang.String userInput) Method extracts date and time from a user input
java.lang.String[]	processInput (java.lang.String userInput) Method to format and parse user input in a formatted String array

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructor Detail

ParserMain

public ParserMain()

Method Detail

processInput

public java.lang.String[] processInput(java.lang.String userInput)

Method to format and parse user input in a formatted String array

Parameters:

userInput -

Returns:

String[] containing formatted user input.

processDateTime

```
public java.util.ArrayList<java.util.ArrayList<java.lang.String>> processDateTime(java.lang.String userInput)
```

Method extracts date and time from a user input

Parameters:

userInput -

Returns:

an ArrayList of ArrayList, containing the date time arguments extracted.

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ui.Controllers.TitleQuotes

Class QuoteGenerator

java.lang.Object
ui.Controllers.TitleQuotes.QuoteGenerator

Direct Known Subclasses:

TitleInterfaceController

public class QuoteGenerator
extends java.lang.Object

Constructor Summary

Constructors

Constructor and Description

QuoteGenerator ()

Method Summary

All MethodsStatic MethodsConcrete Methods

Modifier and Type	Method and Description
static java.lang.String	generateRandomQuote () Gets a quote from storage

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

QuoteGenerator

```
public QuoteGenerator()
```

Method Detail

generateRandomQuote

```
public static java.lang.String generateRandomQuote()
```

Gets a quote from storage

Returns:

String This is the quote from QuoteStorage

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ui.Controllers.TitleQuotes

Class QuoteStorage

java.lang.Object
ui.Controllers.TitleQuotes.QuoteStorage

```
public class QuoteStorage
extends java.lang.Object
```

Constructor Summary

Constructors

Constructor and Description

[QuoteStorage\(\)](#)

Method Summary

All MethodsStatic MethodsConcrete Methods

Modifier and Type	Method and Description
static java.lang.String	parseQuoteList (int quoteNumber) Generates the entire quote list and retrieves a quote depending of the number received

Methods inherited from class java.lang.Object

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Constructor Detail

QuoteStorage

```
public QuoteStorage()
```

Method Detail

parseQuoteList

```
public static java.lang.String parseQuoteList(int quoteNumber)
```

Generates the entire quote list and retrieves a quote depending of the number received

Parameters:

quoteNumber – This is a random number from QuoteGenerator

Returns:

String This is the quote

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logic

Class RedoTask

```
java.lang.Object
  logic.Task
    logic.RedoTask
```

All Implemented Interfaces:

```
java.lang.Cloneable, java.lang.Comparable<Task>
```

```
public class RedoTask
  extends Task
```

Constructor Summary

Constructors

Constructor and Description

```
RedoTask(java.lang.String userInput)
```

```
RedoTask(java.lang.String userInput,
  java.util.ArrayList<java.util.ArrayList<java.lang.String>> dateTimeArgs)
```

Method Summary

Methods inherited from class logic.Task

```
clone, cloneOf, compareTo, editWith, equals, get_cmd, get_completionState,
get_endDate, get_endTime, get_index, get_messageToUserFail,
get_messageToUserSuccess, get_startDate, get_startTime, get_task, is_changed,
isEqualCmd, isEqualMsgFail, isEqualMsgSuccess, isEqualTask, isSameEndDate,
isSameEndTime, isSameStartDate, isSameStartTime, isSuccessful, set_changeDataFlag,
set_cmd, set_Complete, set_endDate, set_endTime, set_Incomplete, set_index,
set_messageToUserFail, set_messageToUserSuccess, set_startDate, set_startTime,
set_task, setDateTimeForTask, setMessageErrorCustom
```

Methods inherited from class java.lang.Object

```
getClass, hashCode, notify, notifyAll, toString, wait, wait, wait
```

Constructor Detail

RedoTask

```
public RedoTask(java.lang.String userInput)
```

RedoTask

```
public RedoTask(java.lang.String userInput,  
                java.util.ArrayList<java.util.ArrayList<java.lang.String>> dateTimeArgs)
```

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logic

Class SaveTask

java.lang.Object
 logic.Task
 logic.SaveTask

All Implemented Interfaces:
java.lang.Cloneable, java.lang.Comparable<Task>

public class **SaveTask**
extends Task

Constructor Summary

Constructors

Constructor and Description

SaveTask(java.lang.String userInput)

Method Summary

Methods inherited from class logic.Task

clone, cloneOf, compareTo, editWith, equals, get_cmd, get_completionState, get_endDate, get_endTime, get_index, get_messageToUserFail, get_messageToUserSuccess, get_startDate, get_startTime, get_task, is_changed, isEqualCmd, isEqualMsgFail, isEqualMsgSuccess, isEqualTask, isSameEndDate, isSameEndTime, isSameStartDate, isSameStartTime, isSuccesful, set_changeDataFlag, set_cmd, set_Complete, set_endDate, set_endTime, set_Incomplete, set_index, set_messageToUserFail, set_messageToUserSuccess, set_startDate, set_startTime, set_task, setDateTimeForTask, setMessageErrorCustom

Methods inherited from class java.lang.Object

getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

SaveTask

```
public SaveTask(java.lang.String userInput)
```

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ui.Controllers

Class SupportFeaturesController

java.lang.Object
ui.Controllers.SupportFeaturesController

```
public class SupportFeaturesController
extends java.lang.Object
```

Constructor Summary

Constructors

Constructor and Description

[SupportFeaturesController\(\)](#)

Method Summary

All Methods Instance Methods Concrete Methods

Modifier and Type	Method and Description
javafx.scene.layout.VBox	getMainPane() Gets the center pane that holds supporting features from supportFeaturesController
void	init(MainGUIController mainController) Constructor method
void	loadCalendar() Displays calendar
void	loadHelpList() Displays help page
void	removeMainPane() Removes the center main from view
void	renderTutorial()

Starts tutorial

void

showMainPane()

Loads the center pane into view

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

SupportFeaturesController

```
public SupportFeaturesController()
```

Method Detail

init

```
public void init(MainGUIController mainController)
```

Constructor method

Parameters:

mainController - The primary controller linking this and the other controllers

getMainPane

```
public javafx.scene.layout.VBox getMainPane()
```

Gets the center pane that holds supporting features from supportFeaturesController

Returns:

VBox This is the center pane for several features

renderTutorial

```
public void renderTutorial()  
    throws java.io.IOException
```

Starts tutorial

Throws:

`java.io.IOException` - If an I/O Error occurs

loadHelpList

```
public void loadHelpList()  
           throws java.io.IOException
```

Displays help page

Throws:

`java.io.IOException` - If an I/O Error occurs

loadCalendar

```
public void loadCalendar()
```

Displays calendar

Throws:

`java.io.IOException` - If an I/O Error occurs

removeMainPane

```
public void removeMainPane()
```

Removes the center main from view

showMainPane

```
public void showMainPane()
```

Loads the center pane into view

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ui.Controllers

Class SupportFeaturesHandler

java.lang.Object
ui.Controllers.SupportFeaturesHandler

```
public class SupportFeaturesHandler
extends java.lang.Object
```

Constructor Summary

Constructors

Constructor and Description

SupportFeaturesHandler(MainGUIController mainController)
Constructor method

Method Summary

All Methods

Instance Methods

Concrete Methods

Modifier and Type	Method and Description
boolean	isSupportFeaturesLoaded (javafx.scene.text.Text feedback) Matches the feedback from Logic to one of the features

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

SupportFeaturesHandler

```
public SupportFeaturesHandler(MainGUIController mainController)
```

Constructor method

Parameters:

`mainController` - The primary controller linking this and the other controllers

Method Detail

isSupportFeaturesLoaded

```
public boolean isSupportFeaturesLoaded(javafx.scene.text.Text feedback)
                                     throws java.io.IOException
```

Matches the feedback from Logic to one of the features

Parameters:

`feedback` - This is the main feedback from `commandListInterface`

Returns:

true if the feedback matches that of the feature, false if nothing is loaded

Throws:

`java.io.IOException` - If there is an I/O Error

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logic

Class Task

java.lang.Object
 logic.Task

All Implemented Interfaces:

java.lang.Cloneable, java.lang.Comparable<Task>

Direct Known Subclasses:

AddTask, CalendarTask, ClearTask, DeleteTask, DisplayTask, EditTask, ExitTask, HelpTask, InvalidTask, MarkComplete, MarkIncomplete, RedoTask, SaveTask, SaveToTask, SearchTask, TutorialTask, UndoTask

```
public class Task
extends java.lang.Object
implements java.lang.Cloneable, java.lang.Comparable<Task>
```

Constructor Summary

Constructors

Constructor and Description

Task(boolean isChanged, java.lang.String userInput, java.lang.String cmd, java.lang.String successMsg, java.lang.String failMsg)

Task(boolean isChanged, java.lang.String userInput, java.lang.String cmd, java.lang.String successMsg, java.lang.String failMsg, java.util.ArrayList<java.util.ArrayList<java.lang.String>> dateTimeArgs)

Method Summary

All Methods Instance Methods Concrete Methods

Modifier and Type	Method and Description
java.lang.Object	clone()
Task	cloneOf()
int	compareTo(Task Other)
void	editWith(Task Other)
boolean	equals (java.lang.Object obj)
java.lang.String	get_cmd()
boolean	get_completionState()
java.lang.String	get_endDate()
java.lang.String	get_endTime()
int	get_index()
java.lang.String	get_messageToUserFail()
java.lang.String	get_messageToUserSuccess()
java.lang.String	get_startDate()
java.lang.String	get_startTime()
java.lang.String	get_task()

```

boolean      is_changed()
              GETTERS

boolean      isEqualCmd(Task other)

boolean      isEqualMsgFail(Task other)

boolean      isEqualMsgSuccess(Task other)

boolean      isEqualTask(Task other)

boolean      isSameEndDate(Task other)

boolean      isSameEndTime(Task other)

boolean      isSameStartDate(Task other)

boolean      isSameStartTime(Task other)

boolean      isSuccessful(Task other)

void         set_changeDataFlag(boolean _changes)

void         set_cmd(java.lang.String _cmd)

void         set_Complete()

void         set_endDate(java.lang.String date2)

void         set_endTime(java.lang.String time2)

void         set_Incomplete()

void         set_index(int newIndex)

void         set_messageToUserFail(java.lang.String _messageToUserFail)

void         set_messageToUserSuccess(java.lang.String _messageToUserSuccess)

void         set_startDate(java.lang.String date1)

void         set_startTime(java.lang.String time1)

void         set_task(java.lang.String _task)
              SETTERS

void         setDateTimeForTask(java.util.ArrayList<java.util.ArrayList<java.lang.String>> dateTimeArgs)

void         setMessageErrorCustom(java.lang.String customErrorMsg)

```

Methods inherited from class java.lang.Object

```
getClass, hashCode, notify, notifyAll, toString, wait, wait, wait
```

Constructor Detail

Task

```

public Task(boolean isChanged,
            java.lang.String userInput,
            java.lang.String cmd,
            java.lang.String successMsg,
            java.lang.String failMsg)

```

Task

```

public Task(boolean isChanged,
            java.lang.String userInput,
            java.lang.String cmd,
            java.lang.String successMsg,

```



```
java.lang.String failMsg,  
java.util.ArrayList<java.util.ArrayList<java.lang.String>> dateTimeArgs)
```

Method Detail

equals

```
public boolean equals(java.lang.Object obj)
```

Overrides:

equals in class java.lang.Object

cloneOf

```
public Task cloneOf()
```

editWith

```
public void editWith(Task Other)
```

clone

```
public java.lang.Object clone()  
    throws java.lang.CloneNotSupportedException
```

Overrides:

clone in class java.lang.Object

Throws:

java.lang.CloneNotSupportedException

compareTo

```
public int compareTo(Task Other)
```

Specified by:

compareTo in interface java.lang.Comparable<Task>

isEqualCmd

```
public boolean isEqualCmd(Task other)
```

isEqualMsgSuccess

```
public boolean isEqualMsgSuccess(Task other)
```

isEqualMsgFail

```
public boolean isEqualMsgFail(Task other)
```

isEqualTask

```
public boolean isEqualTask(Task other)
```

isSuccessful

```
public boolean isSuccessful(Task other)
```

isSameStartDate

```
public boolean isSameStartDate(Task other)
```

isSameEndDate

```
public boolean isSameEndDate(Task other)
```

isSameStartTime

```
public boolean isSameStartTime(Task other)
```

isSameEndTime

```
public boolean isSameEndTime(Task other)
```

is_changed

```
public boolean is_changed()
```

GETTERS

get_cmd

```
public java.lang.String get_cmd()
```

get_task

```
public java.lang.String get_task()
```

get_messageToUserSuccess

```
public java.lang.String get_messageToUserSuccess()
```

get_messageToUserFail

```
public java.lang.String get_messageToUserFail()
```

get_startDate

```
public java.lang.String get_startDate()
```

get_startTime

```
public java.lang.String get_startTime()
```

get_endTime

```
public java.lang.String get_endTime()
```

get_endDate

```
public java.lang.String get_endDate()
```

get_index

```
public int get_index()
```

get_completionState

```
public boolean get_completionState()
```

set_task

```
public void set_task(java.lang.String _task)
```

SETTERS

set_changeDataFlag

```
public void set_changeDataFlag(boolean _changes)
```

set_cmd

```
public void set_cmd(java.lang.String _cmd)
```

set_messageToUserSuccess

```
public void set_messageToUserSuccess(java.lang.String _messageToUserSuccess)
```

set_messageToUserFail

```
public void set_messageToUserFail(java.lang.String _messageToUserFail)
```

set_startDate

```
public void set_startDate(java.lang.String date1)
```

set_startTime

```
public void set_startTime(java.lang.String time1)
```

set_endDate

```
public void set_endDate(java.lang.String date2)
```

set_endTime

```
public void set_endTime(java.lang.String time2)
```

set_index

```
public void set_index(int newIndex)
```

set_Complete

```
public void set_Complete()
```

set_Incomplete

```
public void set_Incomplete()
```

setMessageErrorCustom

```
public void setMessageErrorCustom(java.lang.String customErrorMsg)
```

setDateTimeForTask

```
public void setDateTimeForTask(java.util.ArrayList<java.util.ArrayList<java.lang.String>> dateTimeArgs)
```

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ui.Controllers

Class TutorialRenderer

java.lang.Object
ui.Controllers.TutorialRenderer

```
public class TutorialRenderer
extends java.lang.Object
```

Field Summary

Fields	
Modifier and Type	Field and Description
boolean	tutorialFlag

Constructor Summary

Constructors	
Constructor and Description	
TutorialRenderer (MainGUIController mainController)	Constructor method

Method Summary

All Methods	Instance Methods	Concrete Methods
Modifier and Type	Method and Description	
void	loadTutorial ()	Loads tutorial into view

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Field Detail

tutorialFlag

```
public boolean tutorialFlag
```

Constructor Detail

TutorialRenderer

```
public TutorialRenderer(MainGUIController mainController)
```

Constructor method

Parameters:

mainController - The primary controller linking this and the other controllers

Method Detail

loadTutorial

```
public void loadTutorial()  
           throws java.io.IOException
```

Loads tutorial into view

Throws:

java.io.IOException - If there is an I/O error

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logic

Class TutorialTask

java.lang.Object
 logic.Task
 logic.TutorialTask

All Implemented Interfaces:

java.lang.Cloneable, java.lang.Comparable<Task>

public class **TutorialTask**
extends Task

Constructor Summary

Constructors

Constructor and Description

TutorialTask(java.lang.String userInput)

Method Summary

Methods inherited from class logic.Task

clone, cloneOf, compareTo, editWith, equals, get_cmd, get_completionState, get_endDate, get_endTime, get_index, get_messageToUserFail, get_messageToUserSuccess, get_startDate, get_startTime, get_task, is_changed, isEqualCmd, isEqualMsgFail, isEqualMsgSuccess, isEqualTask, isSameEndDate, isSameEndTime, isSameStartDate, isSameStartTime, isSuccesful, set_changeDataFlag, set_cmd, set_Complete, set_endDate, set_endTime, set_Incomplete, set_index, set_messageToUserFail, set_messageToUserSuccess, set_startDate, set_startTime, set_task, setDateTimeForTask, setMessageErrorCustom

Methods inherited from class java.lang.Object

getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

TutorialTask

```
public TutorialTask(java.lang.String userInput)
```

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SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

logic

Class UndoTask

```
java.lang.Object
  logic.Task
    logic.UndoTask
```

All Implemented Interfaces:

`java.lang.Cloneable, java.lang.Comparable<Task>`

```
public class UndoTask
  extends Task
```

Constructor Summary

Constructors

Constructor and Description

`UndoTask(java.lang.String userInput)``UndoTask(java.lang.String userInput,
java.util.ArrayList<java.util.ArrayList<java.lang.String>> dateTimeArgs)`

Method Summary

Methods inherited from class logic.Task

```
clone, cloneOf, compareTo, editWith, equals, get_cmd, get_completionState,  
get_endDate, get_endTime, get_index, get_messageToUserFail,  
get_messageToUserSuccess, get_startDate, get_startTime, get_task, is_changed,  
isEqualCmd, isEqualMsgFail, isEqualMsgSuccess, isEqualTask, isSameEndDate,  
isSameEndTime, isSameStartDate, isSameStartTime, isSuccessful, set_changeDataFlag,  
set_cmd, set_Complete, set_endDate, set_endTime, set_Incomplete, set_index,  
set_messageToUserFail, set_messageToUserSuccess, set_startDate, set_startTime,  
set_task, setDateTimeForTask, setMessageErrorCustom
```

Methods inherited from class java.lang.Object

```
getClass, hashCode, notify, notifyAll, toString, wait, wait, wait
```

Constructor Detail

UndoTask

```
public UndoTask(java.lang.String userInput)
```

UndoTask

```
public UndoTask(java.lang.String userInput,  
                java.util.ArrayList<java.util.ArrayList<java.lang.String>> dateTimeArgs)
```

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