

EpiphanyEngine

Class Engine

java.lang.Object
EpiphanyEngine.Engine

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

This class can be instantiated to perform all the operations that the program needs to perform. All the tasks would be stored in different projects of type project. Within these projects, we would have an ArrayList of Task which is used to store the instruction, the date as well as the name of the project that it belongs to. The interpreter would pass in the commands from the user and this class would be used to store, modify and update the projects that the user creates. It currently has the ability to add, delete, search and display. Additionally, it has complete project management. Missing: Storing projects in separate files (save).

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Field Summary

Fields	
Modifier and Type	Field and Description
static java.util.ArrayList<EpiphanyEngine.Task>	defaultProject
static java.util.ArrayList<EpiphanyEngine.Project>	EpiphanyMain
static java.lang.String	MESSAGE_ADD
static java.lang.String	MESSAGE_CLEAR
static java.lang.String	MESSAGE_CLEAR_EMPTY
static java.lang.String	MESSAGE_DELETE
static java.lang.String	MESSAGE_DELETE_INVALID
static java.lang.String	MESSAGE_DISPLAY
static java.lang.String	MESSAGE_DISPLAY_ERROR
static java.lang.String	MESSAGE_EXIT
static java.lang.String	MESSAGE_INVALID_SEARCH
static java.lang.String	MESSAGE_NO_ENTRY
static java.lang.String	MESSAGE_PROVIDE_ARGUMENT
static java.lang.String	MESSAGE_SORT
static java.lang.String	MESSAGE_SORTED
static java.lang.String	MESSAGE_WRONG_ENTRY
static java.util.ArrayList<java.lang.String>	projectNames
static java.util.ArrayList<java.util.Date>	testDate1
static java.util.ArrayList<EpiphanyEngine.Task>	testDateSort

Constructor Summary

Constructors	
Constructor and Description	
Engine()	

Method Summary

All Methods	Instance Methods	Concrete Methods
Modifier and Type	Method and Description	
void	deleteProject (java.util.ArrayList<EpiphanyEngine.Task> projectName) Finds the project are removes it entirely.	
void	displayAll () A function that helps to display all the projects including all the tasks stored within them.	
void	displayProject (EpiphanyEngine.Project tempName) Displays all the tasks within any one of the projects.	
void	displayProjects () Displays the names and indices of all the projects that exist.	
void	executeCommand (CommandType userCommand) Interpreter passes in a command type object.	
java.util.Date	formatDate (java.lang.String dateStr) This function helps to format the date.	
void	printToUser (java.lang.String text, java.lang.String arg1, java.lang.String arg2)	
java.lang.String	removeFirstWord (java.lang.String userCommand)	
void	sortDateInList (java.util.ArrayList<java.util.Date> testDate) Sorts the date.	
java.lang.String	toString (java.util.Date deadLine) Helps to format the date and return the formatted date.	

Methods inherited from class java.lang.Object

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

Field Detail

projectNames

public static java.util.ArrayList<java.lang.String> projectNames

defaultProject

public static java.util.ArrayList<EpiphanyEngine.Task> defaultProject

EpiphanyMain

public static java.util.ArrayList<EpiphanyEngine.Project> EpiphanyMain

testDate1

public static java.util.ArrayList<java.util.Date> testDate1

testDateSort

public static java.util.ArrayList<EpiphanyEngine.Task> testDateSort

MESSAGE_WRONG_ENTRY

public static final java.lang.String MESSAGE_WRONG_ENTRY

See Also:

Constant Field Values

MESSAGE_SORTED

public static final java.lang.String MESSAGE_SORTED

See Also:
Constant Field Values

MESSAGE_DELETE_INVALID

public static final java.lang.String MESSAGE_DELETE_INVALID

See Also:
Constant Field Values

MESSAGE_NO_ENTRY

public static final java.lang.String MESSAGE_NO_ENTRY

See Also:
Constant Field Values

MESSAGE_DELETE

public static final java.lang.String MESSAGE_DELETE

See Also:
Constant Field Values

MESSAGE_CLEAR_EMPTY

public static final java.lang.String MESSAGE_CLEAR_EMPTY

See Also:
Constant Field Values

MESSAGE_ADD

public static final java.lang.String MESSAGE_ADD

See Also:
Constant Field Values

MESSAGE_DISPLAY_ERROR

public static final java.lang.String MESSAGE_DISPLAY_ERROR

See Also:
Constant Field Values

MESSAGE_CLEAR

public static final java.lang.String MESSAGE_CLEAR

See Also:
Constant Field Values

MESSAGE_DISPLAY

public static final java.lang.String MESSAGE_DISPLAY

See Also:
Constant Field Values

MESSAGE_EXIT

```
public static final java.lang.String MESSAGE_EXIT
```

See Also:
[Constant Field Values](#)

MESSAGE_SORT

```
public static final java.lang.String MESSAGE_SORT
```

See Also:
[Constant Field Values](#)

MESSAGE_INVALID_SEARCH

```
public static final java.lang.String MESSAGE_INVALID_SEARCH
```

See Also:
[Constant Field Values](#)

MESSAGE_PROVIDE_ARGUMENT

```
public static final java.lang.String MESSAGE_PROVIDE_ARGUMENT
```

See Also:
[Constant Field Values](#)

Constructor Detail

Engine

```
public Engine()
```

Method Detail

displayAll

```
public void displayAll()
```

A function that helps to display all the projects including all the tasks stored within them.

displayProject

```
public void displayProject(EpiphanyEngine.Project tempName)
```

Displays all the tasks within any one of the projects.

Parameters:
name – The name of the project that we wish to display.

displayProjects

```
public void displayProjects()
```

Displays the names and indices of all the projects that exist.

deleteProject

```
public void deleteProject(java.util.ArrayList<EpiphanyEngine.Task> projectName)
```

Finds the project are removes it entirely.

Parameters:

projectName - is the name of the project.

formatDate

```
public java.util.Date formatDate(java.lang.String dateStr)
```

This function helps to format the date.

Parameters:

dateStr - String that contains the date

Returns:

formatted date.

sortDateInList

```
public void sortDateInList(java.util.ArrayList<java.util.Date> testDate)
```

Sorts the date.

Parameters:

testDate - An ArryList of date that needs to be sorted.

toString

```
public java.lang.String toString(java.util.Date deadLine)
```

Helps to format the date and return the formatted date.

Parameters:

deadLine -

Returns:

the formatted date.

executeCommand

```
public void executeCommand(CommandType userCommand)
```

Interpreter passes in a command type object. This method determines which type of command it is and uses the appropriate methods using the switch statements.

Parameters:

userCommand - is the command that the interpreter send in.

removeFirstWord

```
public java.lang.String removeFirstWord(java.lang.String userCommand)
```

printToUser

```
public void printToUser(java.lang.String text,
                        java.lang.String arg1,
                        java.lang.String arg2)
```