

# Epiphany

## UI Sketch

Epiphany

Overdue

- Submit V0.0

Tue 9 Sep

Project: CS2103

- Complete CS2105 Tutorial 3

Wed 10 Sep

Today

Thur 11 Sep

- Prepare for project group meeting

Project: GEM2908

- Finish Pre-Reading for Tobacco Legislation

Project: GEM2908

Saturday

13 Sep

- Do online assignment 2 for PC1432

- Complete Tutorial 4



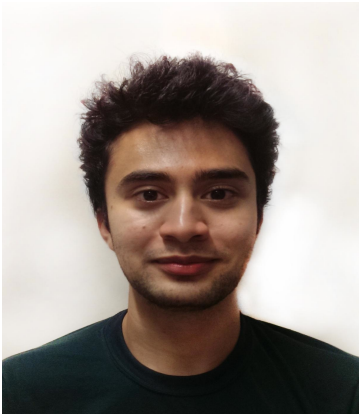

Project: CS2103

Instructions

>> add task "Do online assignment 2 for PC1432" by "13 Sep"  
Task "Do online assignment 2 for PC1432" added.  
>> add task "Complete Tutorial 4" by "this saturday" in "CS2103"  
Task "Complete Tutorial 4" added in project "CS2103".  
>> display all  
>>

Supervisor: Shawn Lee

Extra feature: Google Calendar Integration

 <div>Amit Team Lead/Git Expert</div>	 <div>Abdulla Integration/ UX Design</div>	 <div>Moazzam Code Quality</div>	 <div>Wei Yang Testing</div>
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# User Guide

## Overview

*Epiphany is a great and simple way to manage your daily tasks. Compared to conventional GTD software, Epiphany is intended to be lightweight and allows you to input your tasks in a simple and straightforward manner.*

*Though Epiphany works via the command line, you don't have to learn verbose commands to manipulate your tasks. All you have to do is type in a task along with the date(if any) and it gets added to your list of upcoming tasks! We believe this makes management of simple deadlines much easier!*

## Using Epiphany

*There are several features supported in Epiphany that all work cohesively to help you manage your tasks better. Along with basic tasks, Epiphany also allows you to sort your tasks into projects for easier management.*

*With Epiphany, you can now*

- *add, edit & delete tasks, with support for timed tasks.*
- *search for a task, even if you type only a fraction of the task description*
- *display tasks on a given day or even by project*
- *view all your projects*
- *sync your data with Google Calendar.*

Here are some examples to get you going:

## Adding Tasks

Adding tasks can be done with a simple intuitive command which is close to natural English. Here the quotes act as delimiters and indicate where the content to be added begins and ends.

Input: add "taskDescription"

Description: adds a task without a deadline attached to it - a floating task

Example: add "Save all of mankind"

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## User Guide

Input: add "taskDescription" by "dueDate"

Description: adds a task with a deadline attached to it.

Example: add "Prepare for project meeting" by "this Friday"

Input: add "taskDescription" #projectName

Description: adds a task without a deadline attached to it, to a specific project.

Example: add "Save all of mankind" #justEverydayThings

Input: add "taskDescription" by "dueDate" #projectName

Description: adds a task with a deadline attached to it.

Example: add "Prepare for project meeting" by "this Friday" #GEM2908

### **Editing and Deleting Tasks**

Input: edit <task description> to <new task description>

Description: update your task description with the above format.

Example: edit "Meet Hannah by this Friday" to "Meet Hannah by this Saturday"

Input: delete <task description>

Description: In the placeholder, you can type part of the task description and Epiphany will pull up a list of tasks that match closely. After which, you then can choose which of those tasks to delete.

Example: delete friends

delete <index>

Input: <task description> is done

Description: Given the task description, you can mark it as done.

Example: Assignment 4 is done

Input: change deadline of <task description> to <new deadline>

Description: adds a task with a new deadline attached to it.

Example: change deadline of "Prepare for project meeting" to 16 December.

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## User Guide

### Displaying Tasks

Input: display all

Description: displays all the tasks that the user has added which are sorted according to date. This takes the form of an infinitely scrollable list.

Input: display today

Description: displays all the tasks that the user has due today. This screen would also display all the overdue tasks. This would also be the default view in the GUI.

Input: display ongoing tasks

Description: displays all tasks that are currently ongoing.

Input: display #projectName

Description: displays all the tasks that the user has added under a specific project.

Example: display #CS2103

Input: display "date"

Description: displays all tasks due on a specific date.

Example: display "15 Sep"

### Project Management

Input: create new project #projectName

Description: You can use this syntax to create a new project(list). You can later add tasks to this project using the syntax described in the adding tasks section.

Example: create new project #PC1432

Input: update #projectName to #newProjectName

Description: You can use this syntax to update an existing project.

Example: update project #PC1432 to #PC1431

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## User Guide

### **Search**

Input: search "keyword/phrase"

Description: predictively searches all task names (both inside and outside of projects) for this keyword. Not case sensitive. Displays all of these in the output terminal afterwards.

Example: search "essay"

### **Sync**

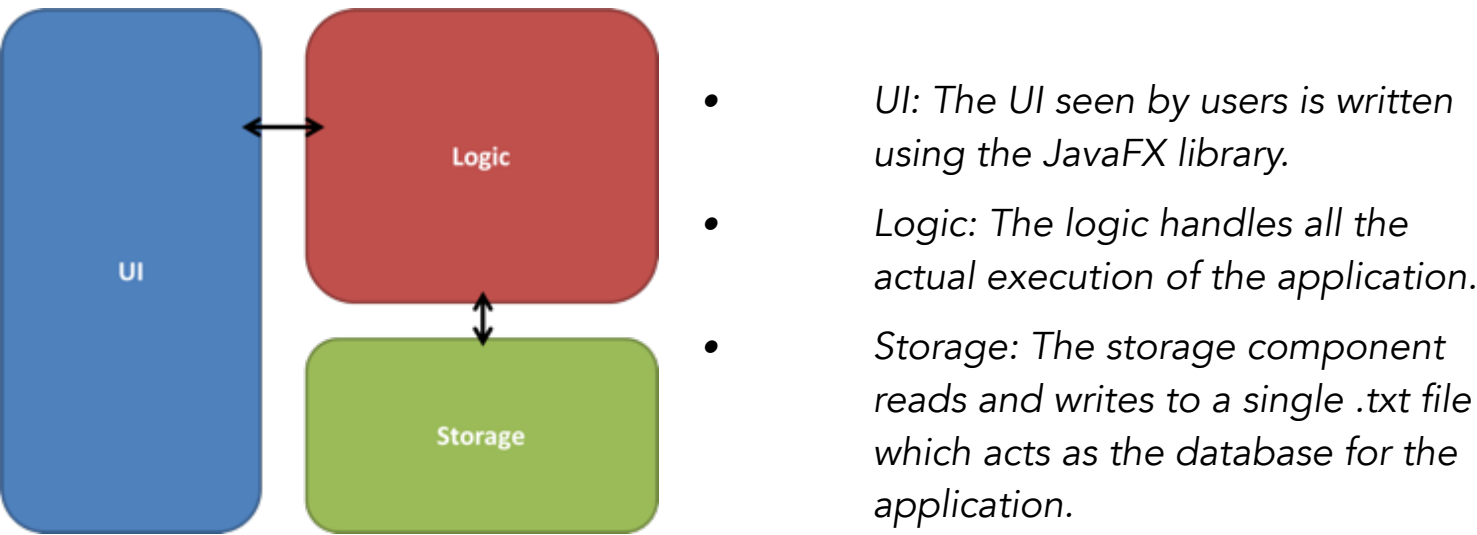
Input: sync

Description: Synchronizes all your tasks to Google Calendar.

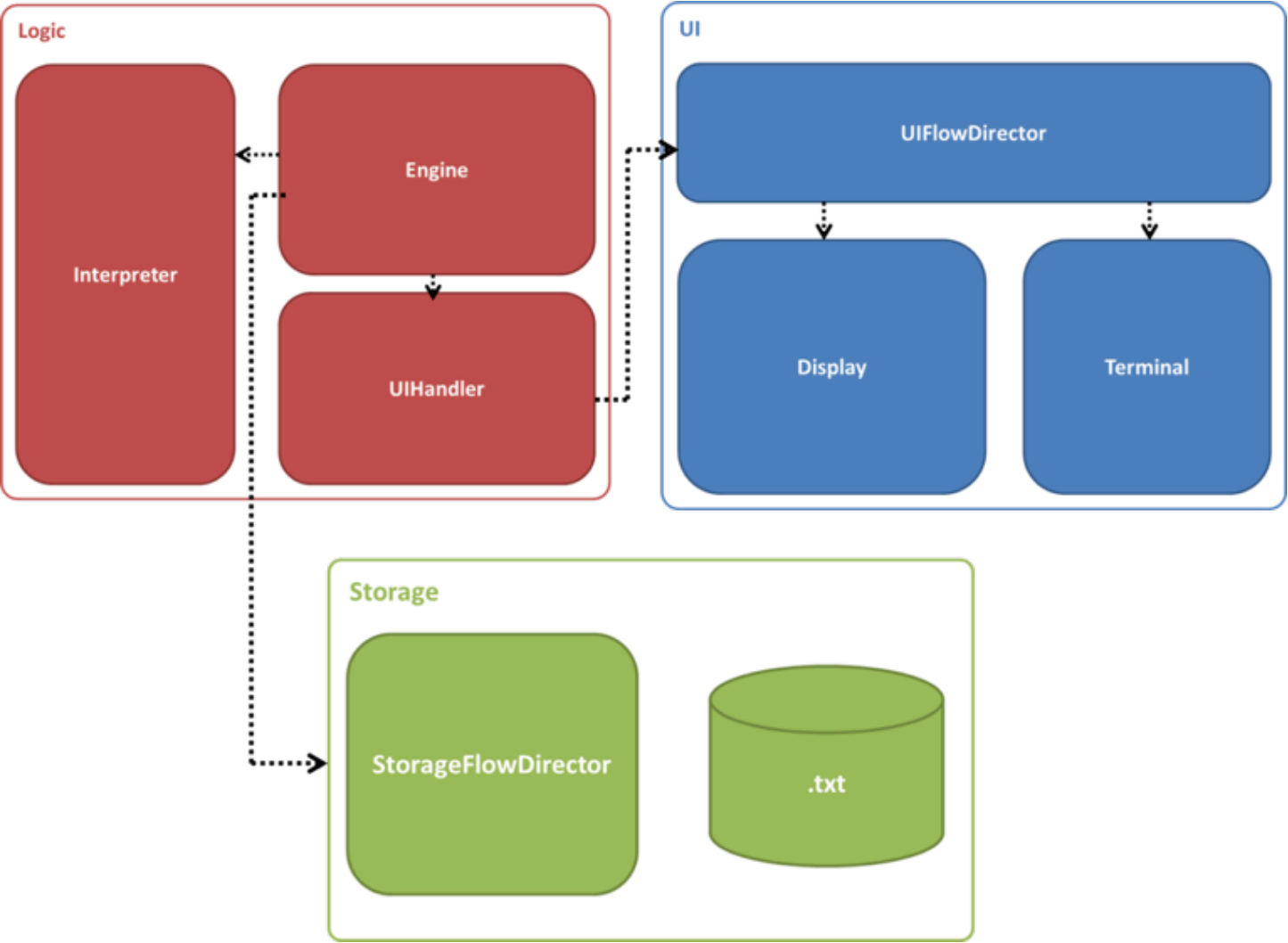
# Developer Guide

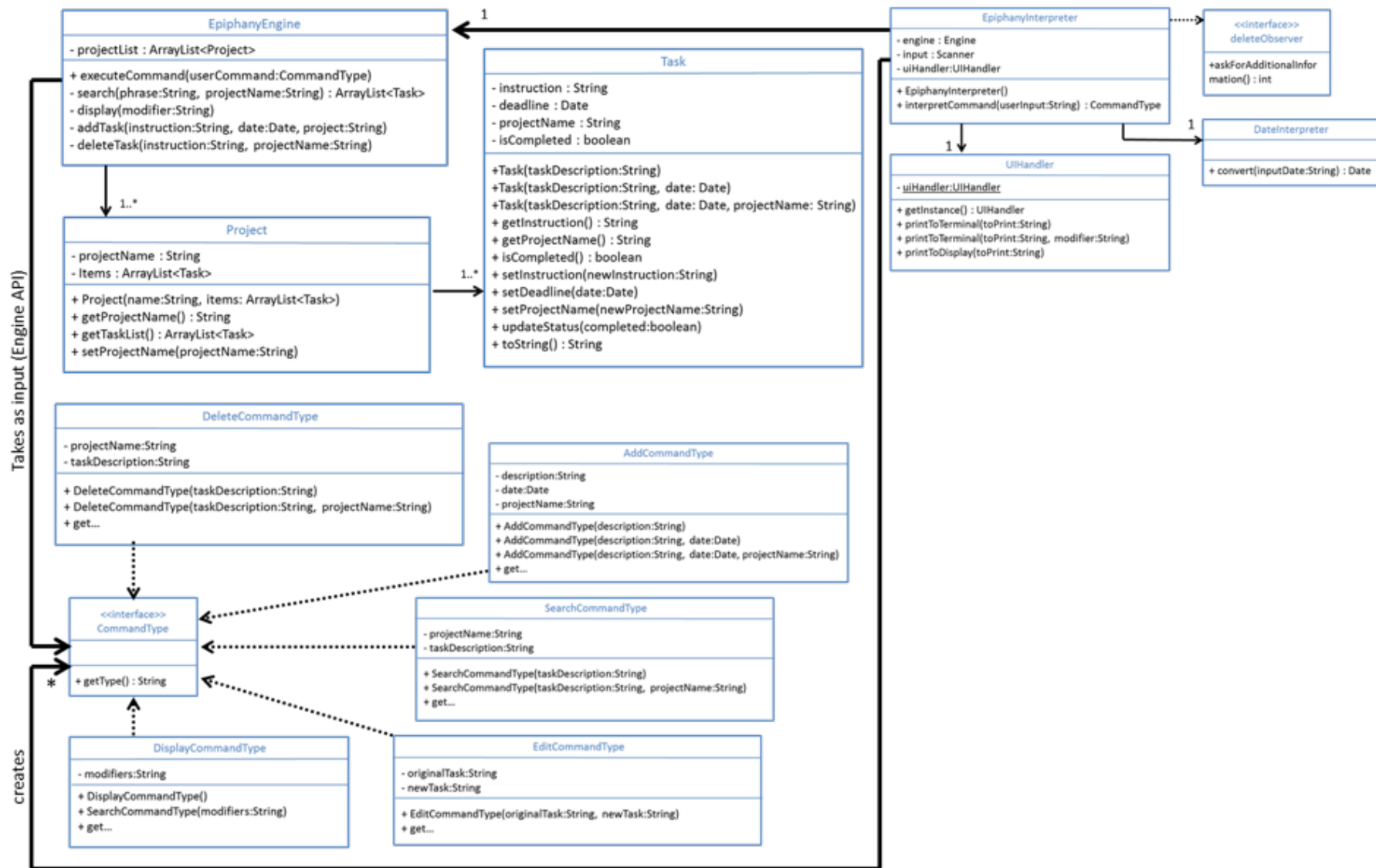
## Architecture overview

Epiphany is written in Java. Given above is a high level overview of its main components.



The diagram below shows how the code is organized into inside each component and dependencies among them. In this architecture Storage-UI-Logic represent an application of Model-View-Controller pattern





Logic

Class EpiphanyInterpreter

java.lang.Object  
Logic.EpiphanyInterpreter

All Implemented Interfaces:

EpiphanyEngine.deleteObserver

```
public class EpiphanyInterpreter
extends java.lang.Object
implements EpiphanyEngine.deleteObserver
```

This class parses the input from the user. The intepreter draws on several helper classes to accept simple and natural English, parses it and passes it onto the Engine Class via the CommandType Interface. This class follows the Observer pattern by implementing deleteObserver.

Author:

Amit and Abdulla

Constructor Summary

Constructors

Constructor and Description
<a href="#">EpiphanyInterpreter()</a>

Method Summary

All Methods	Static Methods	Instance Methods	Concrete Methods
Modifier and Type	Method and Description		
int	<a href="#">askForAdditionalInformation()</a>		
static void	<a href="#">main</a> (java.lang.String[] args) This is the main function which dictates the flow of the program.		

Methods inherited from class java.lang.Object

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

Constructor Detail

EpiphanyInterpreter

```
public EpiphanyInterpreter()
```

Method Detail

main

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

This is the main function which dictates the flow of the program. All the functionality is abstracted out to other methods.

Parameters:

args - which contains the file name (at index 0) entered by the user.

Throws:

java.io.FileNotFoundException



**askForAdditionalInformation**

```
public int askForAdditionalInformation()
```

**Specified by:**

```
askForAdditionalInformation in interface EpiphanyEngine.deleteObserver
```

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).

**Author:**  
Moazzam and Wei Yang

Field Summary

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

Constructor Summary

Constructors	
Constructor and Description	
<b>Engine()</b>	

Method Summary

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

Class Project

java.lang.Object  
EpiphanyEngine.Project

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

This class is used to create and modify projects that are created by the engine. A project contains a project name and an array list of Tasks. The tasks would be stored within the array list and the project name would be used to identify this project.

Author:  
Moazzam and Wei Yang

Constructor Summary

Constructors

Constructor and Description
<b>Project</b> (java.lang.String name, java.util.ArrayList<EpiphanyEngine.Task> items)

Method Summary

All Methods   Instance Methods   Concrete Methods

Modifier and Type	Method and Description
void	<b>createNewFile</b> (java.lang.String fileName, java.util.ArrayList<EpiphanyEngine.Task> items) Creates a new text file to store the new project file
java.lang.String	<b>getProjectName</b> ( )
java.util.ArrayList<EpiphanyEngine.Task>	<b>getTaskList</b> ( )
void	<b>setProjectName</b> (java.lang.String projectName)

Methods inherited from class java.lang.Object
equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

Project
<pre>public Project(java.lang.String name,                java.util.ArrayList&lt;EpiphanyEngine.Task&gt; items)</pre>

Method Detail

getProjectName
<pre>public java.lang.String getProjectName()</pre>
getTaskList
<pre>public java.util.ArrayList&lt;EpiphanyEngine.Task&gt; getTaskList()</pre>

### setProjectName

```
public void setProjectName(java.lang.String projectName)
```

### createNewFile

```
public void createNewFile(java.lang.String fileName,  
                          java.util.ArrayList<EpiphanyEngine.Task> items)  
    throws java.io.IOException
```

Creates a new text file to store the new project file

#### Parameters:

fileName - is the name of the file/project

items - is the ArrayList of items that is inside this project

#### Throws:

java.io.IOException



Class Task

java.lang.Object  
EpiphanyEngine.Task

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

This class aims to help in the creation and management of tasks. Each task contains an instruction, a deadline of class Date, a projectName which is the name of the project that the task is stored under and a boolean variable to check if the task has been completed.

Author:  
Moazzam and Wei Yang

Constructor Summary

Constructors

Constructor and Description
<code>Task(java.lang.String instruction)</code>
<code>Task(java.lang.String instruction, java.util.Date date)</code>
<code>Task(java.lang.String instruction, java.util.Date date, java.lang.String projectName)</code>
Overloaded constructors for the creation of tasks are shown below.
<code>Task(java.lang.String instruction, java.lang.String projectName)</code>

Method Summary

All Methods	Instance Methods	Concrete Methods
Modifier and Type	Method and Description	
java.lang.String	<code>getInstruction()</code>	
java.lang.String	<code>getProjectName()</code>	
boolean	<code>isCompleted()</code>	
java.lang.String	<code>toString()</code>	

Methods inherited from class java.lang.Object

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

Constructor Detail

Task

```
public Task(java.lang.String instruction,
            java.util.Date date,
            java.lang.String projectName)
```

Overloaded constructors for the creation of tasks are shown below. They differ in the type of arguments that they receive.

**Parameters:**

instruction - stores the actual task

date - stores the deadline

ProjectName - stores the name of the project that the task belongs to

Task

```
public Task(java.lang.String instruction)
```

**Task**

```
public Task(java.lang.String instruction,  
            java.util.Date date)
```

**Task**

```
public Task(java.lang.String instruction,  
            java.lang.String projectName)
```

**Method Detail**

**getInstruction**

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

**getProjectName**

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

**isCompleted**

```
public boolean isCompleted()
```

**toString**

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

**Overrides:**  
toString in class java.lang.Object

## Interface CommandType

public interface **CommandType**

### Method Summary

**All Methods**   **Instance Methods**   **Abstract Methods**

Modifier and Type	Method and Description
java.lang.String	<b>getType()</b>

### Method Detail

<b>getType</b>
----------------

java.lang.String getType()

Logic.CommandType

Class AddCommandType

java.lang.Object  
Logic.CommandType.AddCommandType

All Implemented Interfaces:

Logic.CommandType.CommandType

```
public class AddCommandType
extends java.lang.Object
implements Logic.CommandType.CommandType
```

Constructor Summary

Constructors

Constructor and Description
AddCommandType(java.lang.String _description)
AddCommandType(java.lang.String _description, java.util.Date _date)
AddCommandType(java.lang.String _description, java.util.Date _date, java.lang.String _projectName)

Method Summary

All Methods	Instance Methods	Concrete Methods
Modifier and Type	Method and Description	
java.util.Date	getDate()	
java.lang.String	getDescription()	
java.lang.String	getProjectName()	
java.lang.String	getType()	

Methods inherited from class java.lang.Object
equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

AddCommandType
public AddCommandType(java.lang.String _description)
AddCommandType
public AddCommandType(java.lang.String _description, java.util.Date _date)
AddCommandType
public AddCommandType(java.lang.String _description, java.util.Date _date, java.lang.String _projectName)

**Method Detail**

**getType**

public java.lang.String getType()

Specified by:  
getType in interface Logic.CommandType.CommandType

**getDescription**

public java.lang.String getDescription()

**getDate**

public java.util.Date getDate()

**getProjectName**

public java.lang.String getProjectName()

Class EditCommandType

java.lang.Object  
Logic.CommandType.EditCommandType

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

Constructor Summary

Constructors

Constructor and Description
<a href="#">EditCommandType</a> (java.lang.String _originalTask, java.lang.String _newTask)

Method Summary

All Methods	Instance Methods	Concrete Methods
Modifier and Type	Method and Description	
java.lang.String	<a href="#">getNewTask()</a>	
java.lang.String	<a href="#">getOriginalTask()</a>	

Methods inherited from class java.lang.Object

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

Constructor Detail

[EditCommandType](#)

```
public EditCommandType(java.lang.String _originalTask,  
                        java.lang.String _newTask)
```

Method Detail

[getOriginalTask](#)

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

[getNewTask](#)

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

Logic.CommandType

Class DeleteCommandType

java.lang.Object  
Logic.CommandType.DeleteCommandType

All Implemented Interfaces:

Logic.CommandType.CommandType

```
public class DeleteCommandType
extends java.lang.Object
implements Logic.CommandType.CommandType
```

Constructor Summary

Constructors

Constructor and Description
DeleteCommandType(java.lang.String _taskDescription)
DeleteCommandType(java.lang.String _taskDescription, java.lang.String _projectName)

Method Summary

All Methods	Instance Methods	Concrete Methods
Modifier and Type	Method and Description	
java.lang.String	getProjectName()	
java.lang.String	getTaskDescription()	
java.lang.String	getType()	

Methods inherited from class java.lang.Object

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

Constructor Detail

DeleteCommandType

```
public DeleteCommandType(java.lang.String _taskDescription)
```

DeleteCommandType

```
public DeleteCommandType(java.lang.String _taskDescription,
                          java.lang.String _projectName)
```

Method Detail

getType

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

Specified by:  
getType in interface Logic.CommandType.CommandType

**getProjectName**

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

**getTaskDescription**

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



Logic.CommandType

Class DisplayCommandType

java.lang.Object  
Logic.CommandType.DisplayCommandType

All Implemented Interfaces:

Logic.CommandType.CommandType

```
public class DisplayCommandType
extends java.lang.Object
implements Logic.CommandType.CommandType
```

Constructor Summary

Constructors

Constructor and Description
<a href="#">DisplayCommandType()</a>
<a href="#">DisplayCommandType(java.lang.String _modifiers)</a>

Method Summary

All Methods	Instance Methods	Concrete Methods
Modifier and Type	Method and Description	
java.lang.String	<a href="#">getModifiers()</a>	
java.lang.String	<a href="#">getType()</a>	

Methods inherited from class java.lang.Object
<code>equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait</code>

Constructor Detail

DisplayCommandType
<pre>public DisplayCommandType()</pre>
DisplayCommandType
<pre>public DisplayCommandType(java.lang.String _modifiers)</pre>

Method Detail

getType
<pre>public java.lang.String getType()</pre>
<p>Specified by:</p> <p>getType in interface Logic.CommandType.CommandType</p>
getModifiers
<pre>public java.lang.String getModifiers()</pre>

Logic.CommandType

Class SearchCommandType

java.lang.Object  
Logic.CommandType.SearchCommandType

All Implemented Interfaces:

Logic.CommandType.CommandType

```
public class SearchCommandType
extends java.lang.Object
implements Logic.CommandType.CommandType
```

Constructor Summary

Constructors

Constructor and Description
<a href="#">SearchCommandType</a> (java.lang.String _taskDescription)
<a href="#">SearchCommandType</a> (java.lang.String _taskDescription, java.lang.String _projectName)

Method Summary

All Methods	Instance Methods	Concrete Methods
Modifier and Type	Method and Description	
java.lang.String	<a href="#">getProjectName()</a>	
java.lang.String	<a href="#">getTaskDescription()</a>	
java.lang.String	<a href="#">getType()</a>	

Methods inherited from class java.lang.Object

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

Constructor Detail

SearchCommandType

```
public SearchCommandType(java.lang.String _taskDescription)
```

SearchCommandType

```
public SearchCommandType(java.lang.String _taskDescription,
                          java.lang.String _projectName)
```

Method Detail

getType

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

Specified by:  
getType in interface Logic.CommandType.CommandType

**getTaskDescription**

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

**getProjectName**

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

---

Appendix A: User Stories. As a user...

**[Likely]**

ID	I can ... (i.e. Functionality)	so that I ... (i.e. Value)
addTask	add a task	can record tasks with a deadline.
addFloating	add a task without a deadline	can record tasks that I want to do some day.
deleteTask	delete a task	no longer have to track it.
completeTask	mark a task as completed	can view it in archive later.
ongoingTask	mark a task as ongoing	so that I can plan my work.
modifyTask	change details of a task	can have flexibility.
displayTasks	view all my tasks in one place.	can plan my work
readInput	add tasks through command line style arguments	can easily create new tasks
remindMe	recieve a reminder	remember to do things.
editTask	modify a task	can edit the task
undo	undo the last action (this does not stack multiple times)	can easily disregard a wrong command.

**[Unlikely]**

ID	I can ... (i.e. Functionality)	so that I ... (i.e. Value)
addProject	Create a project which can then contain tasks within it.	can organize my tasks into an intuitive format and make filtering easier.
powerSearch	Search through all my tasks, including date and notes field.	can easily search for anything i want
syncToGCal	Export my tasks to google calender	can easily integrate with any other calendar app i may have.
addNotes	add notes to any task	can elaborate on tasks without making the title messy

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# Appendix B: Product Survey

<p><b>Product:</b> iStudiez Pro <b>Documented by:</b> Amit Gamane</p> <p><u>Strengths:</u></p> <ul style="list-style-type: none"><li>■ Good organization</li><li>■ Easy to navigate UI</li><li>■ Ability to add/edit tasks with deadline</li><li>■ Shortcuts for deadline(due next class etc.)</li><li>■ Ability to add teacher information</li><li>■ Integrates with iCal and shows how you schedule looks like</li><li>■ Variable Reminder settings</li><li>■ Holidays can be added</li></ul> <p><u>Weaknesses:</u></p> <ul style="list-style-type: none"><li>■ Doesnt allow long term grade tracking, only task-based grading</li><li>■ Backup works via email, could have included calendar syncing</li><li>■ Displays all assignments due at once. I'd like to set an deadline to commit it to my schedule but may not want to see it on my list immediately.</li></ul>
<p><b>Product:</b> Todoist <b>Documented by:</b> Abdulla Contractor</p> <p><u>Strengths:</u></p> <ul style="list-style-type: none"><li>■ Simple and clean design</li><li>■ Sends reminders by email</li><li>■ The app is available on a wide variety of platforms, allowing you to access it from almost anywhere.</li><li>■ You have the choice to collaborate with others on a project.</li><li>■ You can create subtasks and by doing so break large tasks into smaller managable ones.</li><li>■ You can quickly write due dates using normal language, such as "monday at 2pm".</li></ul> <p><u>Weaknesses:</u></p> <ul style="list-style-type: none"><li>■ Does not sync to google calendar, it would be great if it could because the calendar on all my devices is integrated with google.</li></ul>

**Product:** <http://todotxt.com/>

**Documented by:** Tin Wei Yang

**References:** <http://computers.tutsplus.com/tutorials/how-to-manage-your-tasks-with-todotxt--cms-20293>

<https://github.com/ginatrapani/todo.txt-android/releases/tag/release34>

**Strengths:**

- Note taking at its purest, no reminders, checkboxes. Mimics the way how notes are taken down in real life - you write them down on a piece of paper
- Helps prioritize your to-do items & organize them into projects and contexts. This is done through the addition of a “+” tag followed by the project name at the end of the task. e.g. Do the dishes. +cleaning. Context can be added with an “@” sign followed by the name of the context. Priorities are designated with an uppercase, A-Z e.g. (A). A has a higher priority compared to B and so on.
- Open source project. Works in a variety of apps like Todour
- Command line editing of your task file
- Clean and minimal interface
- Modular - ability to combine with apps and the command line interface makes it as powerful as what the user would like.

**Weaknesses:**

- A slight learning curve initially.
- Unable to set time reminders, notifications
- Information is displayed in text, may not appeal to people who are more visual.

**Product:** Google Calendar integration with S planner **Documented by:** Moazzam Ali Khan

Strengths:

- Great synchronization features.
- Ability to synchronize with phone as well.
- Allows both tasking and calendar mode.
- Lots of options for calendar view; Daily, 4 days, weekly, monthly, etc.
- Great search function.
- Ability to combine with other apps.
- Email and sms reminders for flagged events.
- Allows easy addition of events, click from email.
- Daily Agenda mode; enables a daily agenda to be received via email at a set time.
- Allows sharing of calendar with others.

Weaknesses:

- Design is complicated. Needs getting used to.
- Too many settings which take users time to understand.