**User guide (changes):**

ADD

[taskDetails] [Date] [Time] [Priority]

Normal task / Timed task depends on whether the time and date field are entered.

EDIT

[Edit] [LabelName] [taskID] [taskDetails] [Date] [Time] [Priority]

Can edit tasks with greater details.

**DEVELOPER GUIDE:**

The system is able to add and manage tasks simply and efficiently. Commands are passed from the user to ToDoThis.java which diverts it to TDTParser.java. The following components of the command are separated to be accessed again by the Logic within TDTParser.java. Command class is created and all the components are stored within. In the logic component, the Command class and DateAndTime class helps to create the Task class which will be stored in Storage.

The new developer has to understand the system flow from the user to the logic and then back to the user.

ToDoThis

Storage

Logic

Parser

API FOR METHODS (IMPORTANT)

**Class Command**

The Command class is used to filter the details that the user keys in and separate them into the different components.

Field Summary

|  |  |
| --- | --- |
| Modifier and Type | Field and Description |
| private int | taskID  Integer value assigned to the task for labelling. |
| private String | labelName  Category that the task is added under. |
| private String | commandDetails  Contains task details that user wants to input. |
| private TDTDateAndTime | dateAndTime  Contains date and time of task. |
| private boolean | isHighPriority  True is task is of high priority and false if otherwise. |

Constructor Summary

|  |  |
| --- | --- |
| Modifier | Constructor and Description |
| Public | Command(COMMANDTYPE commandType, String labelName, **int** taskID,  String commandDetails, TDTDateAndTime dateAndTime,  **boolean** isHighPriority)  Creates a Command object for the specified user input. |

Method Summary

|  |  |
| --- | --- |
| Modifier and Type | Method and Description |
| COMMANDTYPE | getCommandType()  return CommandType such as add or delete and so on. |
| void | setCommandType(COMMANDTYPE commandType)  this.commandType = commandType |
| String | getLabelName()  return labelName |
| void | setLabelName(String labelName)  this.labelName = labelName |
| String | getCommandDetails()  return commandDetails |
| void | setCommandDetails(String commandDetails)  this.commandDetails = commandDetails |
| boolean | isHighPriority()  return isHighPriority |
| void | setHighPriority(boolean isHighPriority)  this.isHighPriority = isHighPriority |
| int | getTaskID()  return taskID |
| void | setTaskID(int taskID)  this.taskID = taskID |
| TDTDateAndTime | getDateAndTime()  return dateAndTime |
| void | setDateAndTime(TDTDateAndTime dateAndTime)  this.dateAndTime = dateAndTime |

**Class Task**

public class Task implements Comparable<Task>

The Task class contains the vital information regarding the task that the user wants to add.

Field Summary

|  |  |
| --- | --- |
| Modifier and Type | Field and Description |
| private int | taskID  Integer value assigned to the task for labelling. |
| private String | labelName  Category that the task is added under. |
| private TDTDateAndTime | dateAndTime  Contains date and time of task. |
| private String | details  task details that user wants to add. |
| private boolean | isHighPriority  True is task is of high priority and false if otherwise. |
| private boolean | hide  False if user wants to display otherwise true. |
| private boolean | isDone  True if task has been completed and false if otherwise. |

Constructor Summary

|  |  |
| --- | --- |
| Modifier | Constructor and Description |
| public | Task(**int** taskID,  String labelName,  String details,  TDTDateAndTime dateAndTime, **boolean** p)  Creates a Task object for the specified user input. |
| public | Task(**int** taskID,  String labelName,  String details,  TDTDateAndTime dateAndTime, **boolean** p,  **boolean** done,  **boolean** hide)  Creates a Task object for the specified user input. |

Method Summary

|  |  |
| --- | --- |
| Modifier and Type | Method and Description |
| int | getTaskID()  return taskID |
| void | setTaskID(int taskID)  this.taskID = taskID |
| String | getLabelName()  return labelName |
| void | setLabelName(String labelName)  this.labelName = labelName |
| String | getDetails()  return details |
| void | setDetails(String details)  this.details = details |
| boolean | isHighPriority()  return isHighPriority |
| void | setHighPriority(boolean isHighPriority)  this.isHighPriority = isHighPriority |
| boolean | isHide()  return hide |
| void | setHide(boolean hide)  this.hide = hide |
| boolean | isDone()  return isDone |
| void | setDone(boolean isDone)  this.isDone = isDone |
| TDTDateAndTime | getDateAndTime()  return dateAndTime |
| void | setDateAndTime(TDTDateAndTime dateAndTime)  this.dateAndTime = dateAndTime |

**Class TDTParser**

public class TDTParser implements ITDTParser

The TDTParser class takes in user input and returns a Command object. ITDTParser is an interface which contains enum COMMANDTYPE.

Method Summary

|  |  |
| --- | --- |
| Modifier and Type | Method and Description |
| Command | parse(String userCommand)  returns a Command object with user input separated into the different components. |
| private static COMMANDTYPE | determineCommandType(String commandTypeString)  returns a COMMANDTYPE object. Default is add. |

**CODE EXAMPLES**

**INSTRUCTIONS FOR TESTING**

Run TDTParserTest.java or TDTStorageTest.java to facilitate with the testing of the methods.