CRC Cards

Entities:

			NOT	abstract	
	Task			Folder	Project, Label
Attributes: name due day description (opt depends on use project labels Methods: get name, set n get due date, s set description get project, set get labels	ame at due date	Project Label	Attrib	outes: name a collection of tasks ods: get name, set name get tasks add a task, delete a task	Task

	Folder		Folder
Project	Project		
	Task		Task

TodoSystem	
Attributes (protected): a collection of all tasks collection of all projects a collection of all labels	Task Project Label
Methods: getters for all collections add a task, delete a task add a project, delete a project add a label, delete a label	

Use cases:

Interface		Imple	ments Executable
Executable		NewTask	
Methods: • execute: take user arguments and DataAccessor, execute the command		Methods: • execute: create a new task and put it into Inbox	Task TodoSystem DataAccessor
Impler	ments Executable	Imple	ments Executable
Upcoming		CompleteTask	
Methods: • exercute: return a sorted list of all tasks	Task TodoSystem DataAccessor	Methods: • Exercute: delete an existing task	Task TodoSystem DataAccessor
Implements Executable Star		Imple Unstar	ments Executable
Methods: • execute: add task to the Starred label	Task Label TodoSystem DataAccessor	Methods: • execute: delete task from the Starred label	Task Label TodoSystem DataAccessor

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Implements Executable		Implements Executable	
Rename		Retime	
Task TodoSystem DataAccessor	Methods: • execute: modify the due date of a task	Task TodoSystem DataAccessor	
ments Executable	Imple	ments Executable	
Task TodoSystem DataAccessor	Methods: • execute: move a task to a different project	Task Project TodoSystem DataAccessor	
ments Executable	Imple	ments Executable	
Endodidoro			
Task Label TodoSystem DataAccessor	Methods: • execute: delete a task from a label	Task Label TodoSystem DataAccessor	
	Task TodoSystem DataAccessor Task TodoSystem DataAccessor Task TodoSystem DataAccessor	Task TodoSystem DataAccessor Methods:	

Implements Executable NewProj		Implements Executable ModProj	
Methods: • execute: create a new project	Project TodoSystem DataAccessor	Methods: • execute: modify project name	Project TodoSystem DataAccessor
Implements Executable DelProj		Implements Executable ViewProj	
Methods: • execute: delete an existing project	Project TodoSystem DataAccessor	Methods: • execute: return a sorted list of tasks in an existing project	Project TodoSystem DataAccessor

Implements Executable ListProj		
Methods: • execute: return a sorted list of existing projects	Project TodoSystem DataAccessor	

Implements Executable NewLab		Implements Executable ModLab	
Methods: • execute: create a new label TodoSystem DataAccessor		Methods: • execute: modify label name	Label TodoSystem DataAccessor
Implements Executable DelLab		Implements Executable ViewLab	
Methods: • execute: delete an existing label Label TodoSystem DataAccessor		Methods: • execute: return a sorted list of tasks in an existing label	Label TodoSystem DataAccessor

Imple ListLab	ments Executable
Methods: • execute: return a sorted list of existing labels	Label TodoSystem DataAccessor

Controllers:

CommandExecutor			
Methods: • execute an Executable as specified by user command	Executable DataAccessor		

Driver & database:

Interface		Impleme	nts DataAccessor
DataAccessor		DataManager	
Methods: • getSystem: return our TodoSystem object	TodoSystem	Attributes: todoSystem	TodoSystem
		Methods: read data from local files write data into local files getSystem: return our TodoSystem object	

	Driver	
(re us ex pri	itialize the system ead files) nile running, ask er for commands, ecute them, and int results returned the system (write es)	CommandExecu ter DataManager