CRC Cards

Entities:

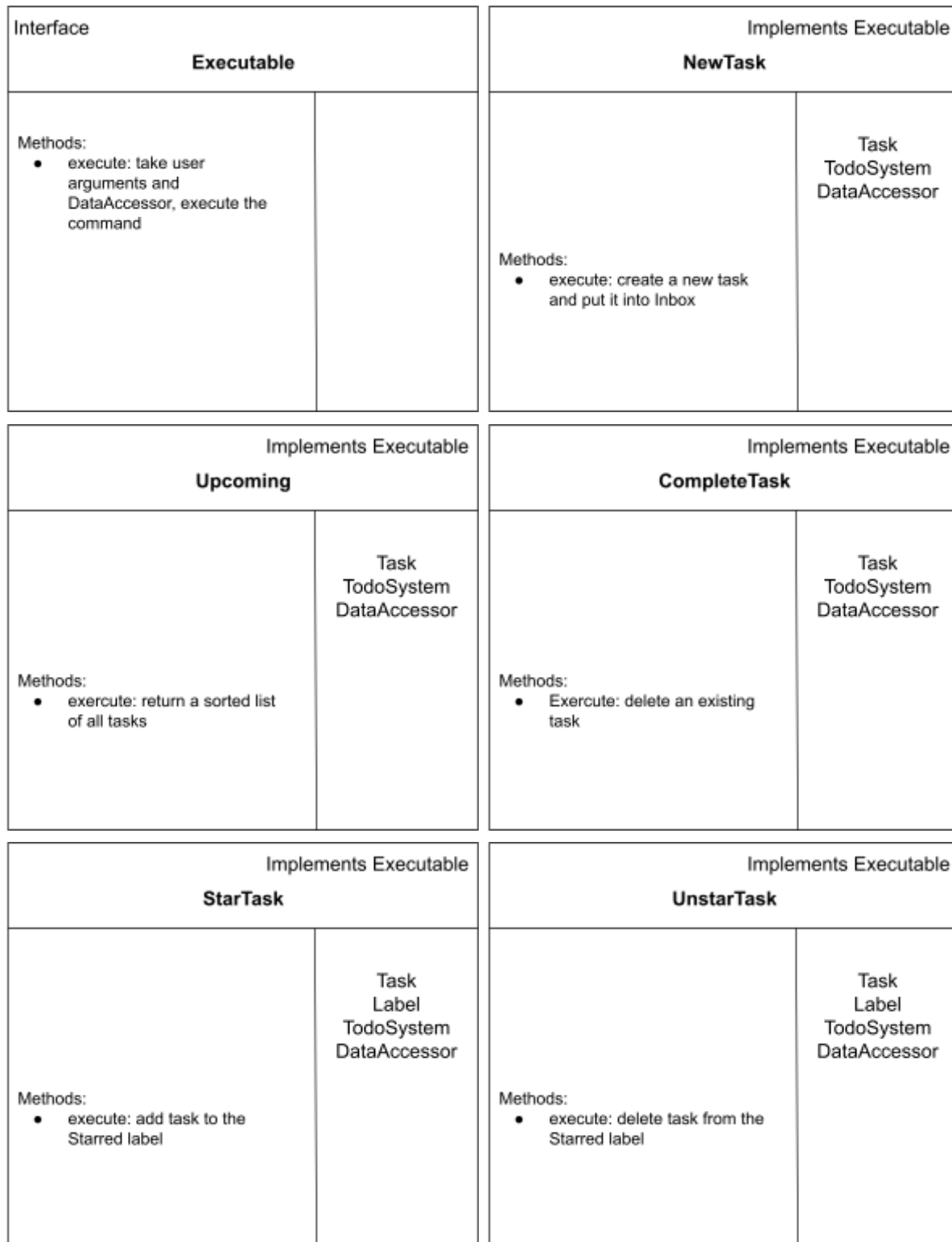| Task		Project
Task		Project
Attributes: ❏ name ❏ due day ❏ description (optional, depends on user) ❏ project Methods: • get name, set name • get due date, set due date • get description, set description • get project, set project		Project

NOT abstract		Project, Label
Folder		
Attributes: ❏ name ❏ a collection of tasks ❏ renamable (bool) Methods: • get name, set name • add a task, delete a task • return a list of tasks in chronological order		Task

	Folder
Project	Task

	Folder
Label	Task

TodoSystem	
TodoSystem	
Attributes (protected): ❏ a collection of all tasks ❏ a collection of all projects ❏ a collection of all labels Methods: • getters for all collections	Task Project Label

Use cases:

Interface	
Executable	
Methods: ● execute: take user arguments and DataAccessor, execute the command	

	Implements Executable
NewTask	
Methods: ● execute: create a new task and put it into Inbox	Task TodoSystem DataAccessor

	Implements Executable
Upcoming	
Methods: ● exercute: return a sorted list of all tasks	Task TodoSystem DataAccessor

	Implements Executable
CompleteTask	
Methods: ● Exercute: delete an existing task	Task TodoSystem DataAccessor

	Implements Executable
StarTask	
Methods: ● execute: add task to the Starred label	Task Label TodoSystem DataAccessor

	Implements Executable
UnstarTask	
Methods: ● execute: delete task from the Starred label	Task Label TodoSystem DataAccessor

Rename	Implements Executable
Methods: • execute: rename a task	Task TodoSystem DataAccessor

Retime	Implements Executable
Methods: • execute: modify the due date of a task	Task TodoSystem DataAccessor

Redesc	Implements Executable
Methods: • execute: modify the description of a task	Task TodoSystem DataAccessor

Reproj	Implements Executable
Methods: • execute: move a task to a different project	Task Project TodoSystem DataAccessor

TaskLabAdd	Implements Executable
Methods: • execute: add a task to a label	Task Label TodoSystem DataAccessor

TaskLabDel	Implements Executable
Methods: • execute: delete a task from a label	Task Label TodoSystem DataAccessor

Implements Executable **NewProj**	Implements Executable **ModProj**
Methods: ● execute: create a new project	Project TodoSystem DataAccessor

Implements Executable **DelProj**	Implements Executable **ViewProj**
Methods: ● execute: delete an existing project	Project TodoSystem DataAccessor

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

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NewProj — Implements Executable

Methods:
- execute: create a new project

Project TodoSystem DataAccessor

ModProj — Implements Executable

Methods:
- execute: modify project name

Project TodoSystem DataAccessor

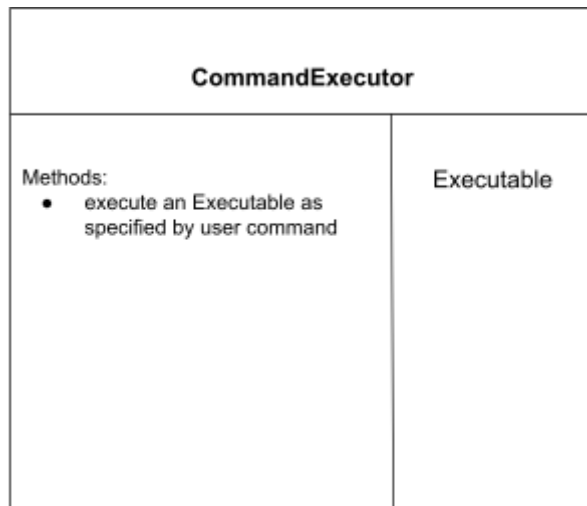**DelProj** — Implements Executable

Methods:
- execute: delete an existing project

Project TodoSystem DataAccessor

ViewProj — Implements Executable

Methods:
- execute: return a sorted list of tasks in an existing project

Project TodoSystem DataAccessor

ListProj — Implements Executable

Methods:
- execute: return a sorted list of existing projects

Project TodoSystem DataAccessor

	Implements Executable
NewLab	
Methods: • execute: create a new label	Label TodoSystem DataAccessor

	Implements Executable
ModLab	
Methods: • execute: modify label name	Label TodoSystem DataAccessor

	Implements Executable
DelLab	
Methods: • execute: delete an existing label	Label TodoSystem DataAccessor

	Implements Executable
ViewLab	
Methods: • execute: return a sorted list of tasks in an existing label	Label TodoSystem DataAccessor

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

Controllers:

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

Driver & database:

Interface **DataAccessor**	
Methods: • getSystem: return our TodoSystem object	TodoSystem

Implements DataAccessor **DataManager**	
Attributes: ❏ todoSystem Methods: • read data from local files • write data into local files • getSystem: return our TodoSystem object	TodoSystem

Driver	

Methods::
❏ Main:
  ❏ initialize the system (read files)
  ❏ while running, ask user for commands, execute them, and print results returned
  ❏ exit the system (write files)
	CommandExecuter
	DataManager