

# Information of the SrumTaskBoard Application

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# 1. Development Environment

Operation System: Mac OS X Yosemite 10.10.4

JDK: 1.8

IDE: Eclipse Mars (4.5.0)

Test tool: JUnit 4

# 2. How to Run the Application

There are two methods to run the application:

- Import the project into an IDE and run the application in the IDE.
- Use Makefile to compile and run the application.

The following steps are used to run the application by Makefile:

Step1: Open the terminal and change directory to “solution” directory.

Step2: Compile the source code by typing in the command: make compile / make

Step3: Run the application by typing in the command: make run

Step4: Exit the application by typing in the command: exit

Step5: Remove all the executable files by typing in the command: make clean

# 3. Output/Input Description

Input	Output Description
Create story <id> <description>	0: successful completion. 1: error [the storyId has already existed].
List stories	List: <Story Id> <Story Status>[uncompleted/completed] 0: successful completion.
Delete story <id>	0: successful completion. 1: error [the story doesn't exist]
Complete story <id>	0: successful completion. 1: error [the story doesn't exist/ the story contains uncompleted task]
Create task <storyId> <id> <description>	0: successful completion. 1: error [the storyid doesn't exist/ the taskid has already existed]
List tasks <storyId>	List: <Story Id> <Task Id> <column> <description> 0: successful completion.
Delete task <storyId> <id>	0: successful completion. 1: error [the storyid doesn't exist/ the taskid doesn't exist]
Move task <storyId> <id> <new column>	0: successful completion. 1: error [the storyid doesn't exist/ the taskid doesn't exist/ the new column is not a validate column to move into]
Update task <storyId> <id> <new decription>	0: successful completion. 1: error [the storyid doesn't exist/ the taskid doesn't exist]

# 4. Application Design

Figure 1 shows all the classes used in the application.

Storage: Use file to store data

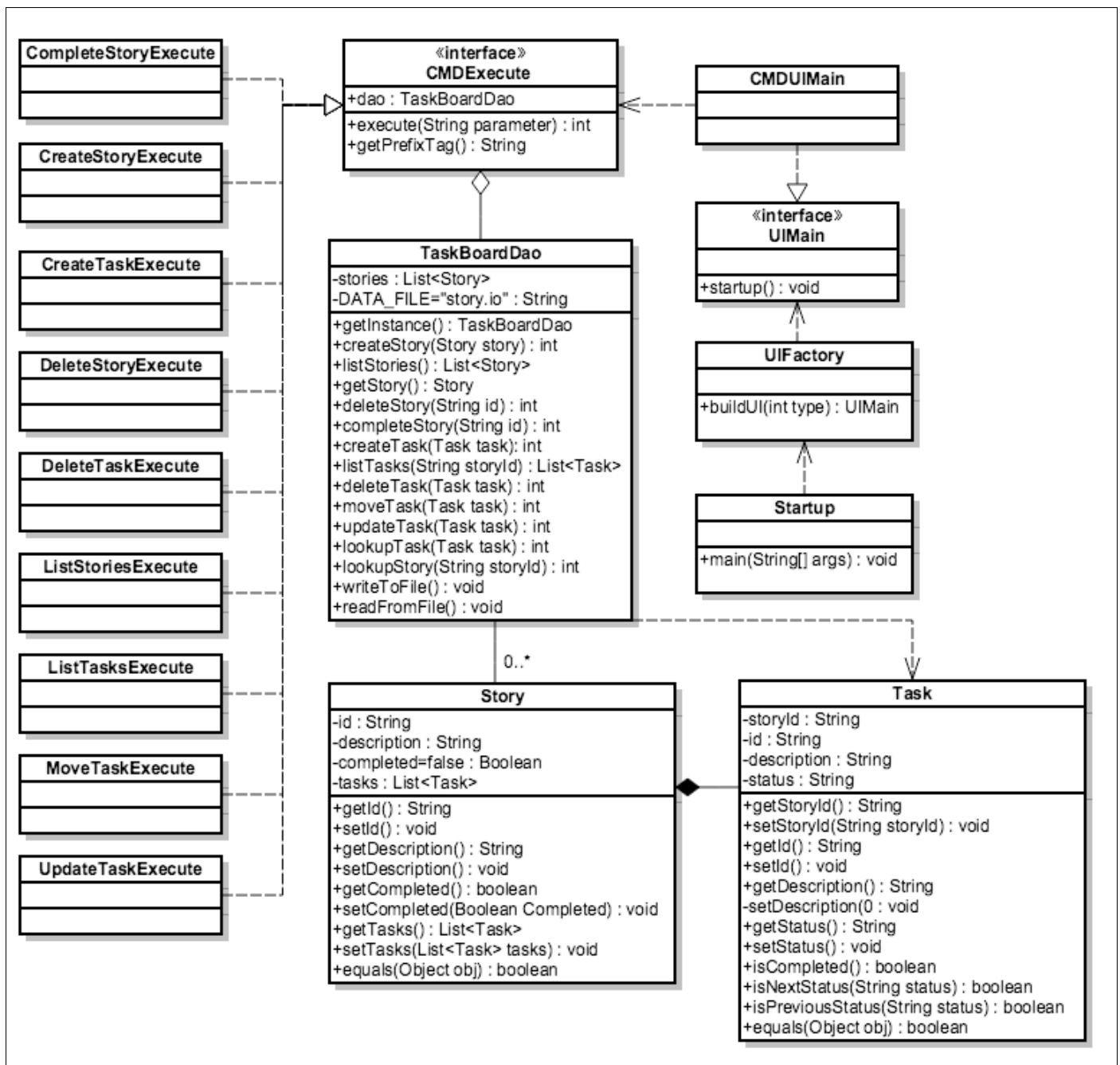


Figure 1: Class Diagram

## 5. Test Report

Testing level: Unit Testing

Testing Method: White-box Testing

Testing Tool: JUnit 4

Number of Test Cases: 12

Path Coverage: 100%

Condition Coverage: 100%

Test results: All pass