

<<XXX 專案>> 會議記錄

會議日期	2014/4/27
時間	10:00 – 13:00
地點	德田館 439
主持人	None
紀錄者	劉宗瑋
目的	Discuss homework 9-1 and review project progress

參與者

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會議議程

1. Discuss homework 9-1
2. Review project progress

會議討論議題

1. Homework 9-1

We have made some modification based on the initial design given by 哲誠. Most of our time is spent on the refactoring process of this initial design. We have identified two design issues.

The first issue is the flexibility to extend `TextView` with different “decorators”, which include scroll bar, border in current scenario. When a new decorator such as background is going to be added to `TextView`, `TextView` class must be opened to modify its display operation if we implement the function to show a decorator as a method of `TextView`. The second is the capability to support a different file format in the future without opening `TextView` class for modification.

Following the refactoring process to resolve the first issue, encapsulation of the two given decorators, i.e. scroll bar and border, into two classes, `ScrollBar` and `BlackBorder`, is required at first. The second step is to create an interface `DisplayComponent` as the abstraction of these two classes. At last, to delegate work of displaying decorator, `TextView` should hold a bunch of objects which implement `DisplayComponent`, and call their `show()` methods. Therefore there is an association between `TextView` class and `DisplayComponent` interface.

To resolve the second issue, the work to read a file with specific format and to create its `TextView` is now encapsulated in a class. These classes have same functions (read file) but different implementation, so creating an abstraction of these classes (`Format` interface) is better. To use their functionality, association is required between `TextView` and `Format`.

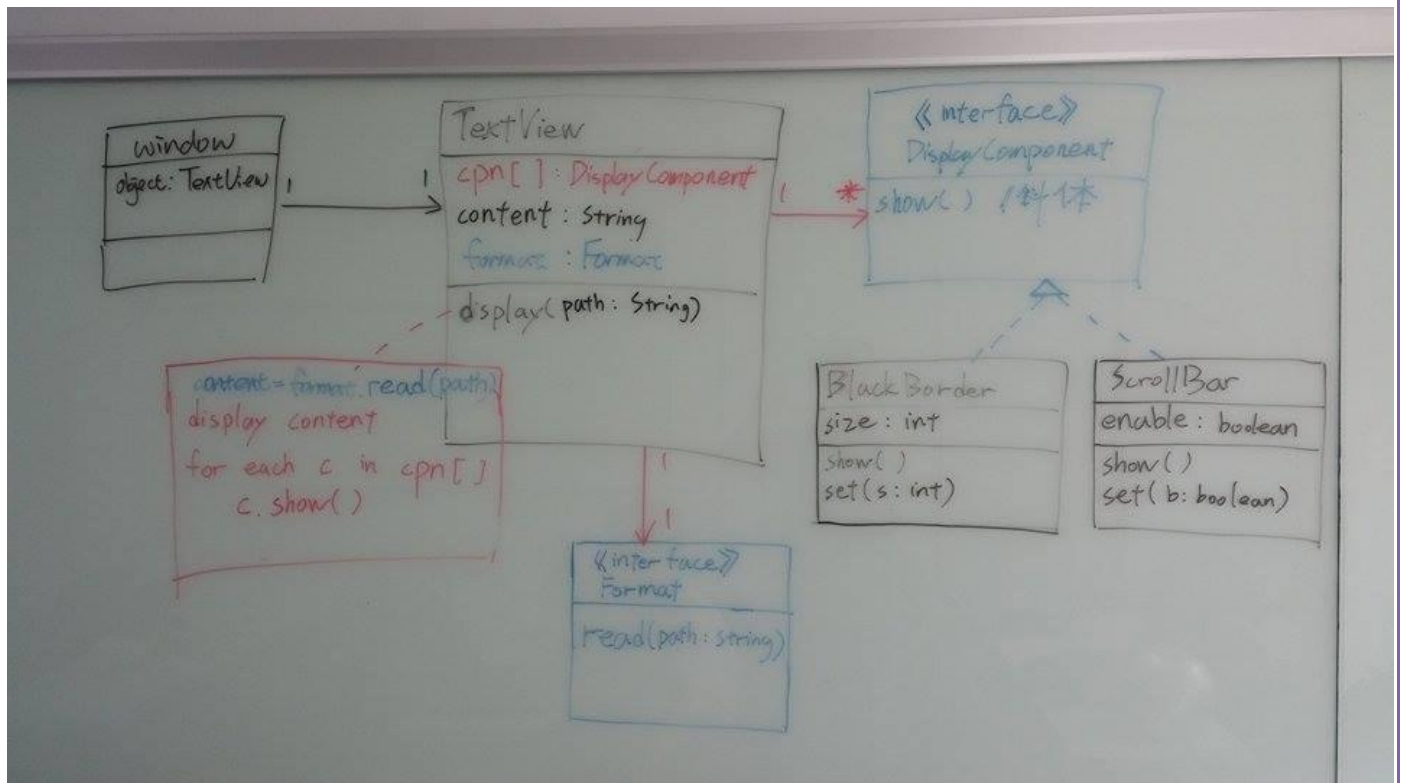


Fig 1. Black-colored part indicates the first step of the refactoring process; the blue part corresponds to second step, and the red part corresponds to the last step.

2. Project Progress

According to the action item opened last week, requirements of the system components we are responsible for should be delivered in this meeting. However we spend most of our time on the previous meeting issue, and most of us are still stuck in code survey. Therefore deadline of this action item is extended.

Action Item 後續處理項目

編號	處理動作	負責人員	處理期限	狀態	備註
1	Produce system requirement	All	5/4	Ongoing	extended
下次會議					
日期	時間	地點			
5/4	10:00	TBD			