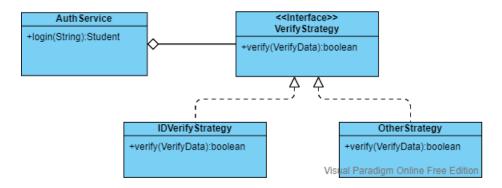
Names: Junjie Wen, Yufeng Shi, Yixuan Li

Team ID: 5

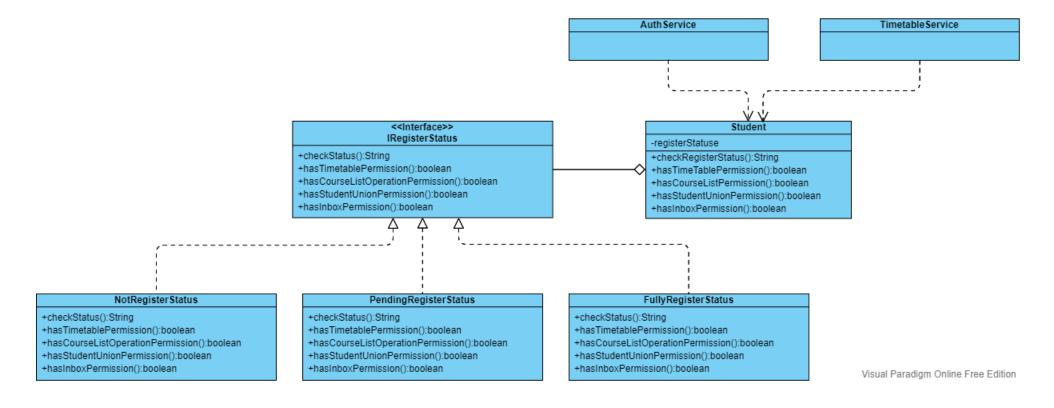
The link to our code base:

https://gitlab.cs.man.ac.uk/m04058jw/comp62542-students-system

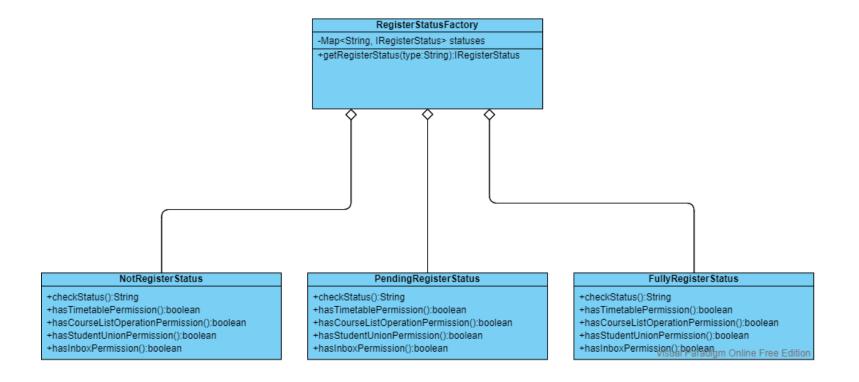
# Visual Paradigm Online Free Edition Paradigm



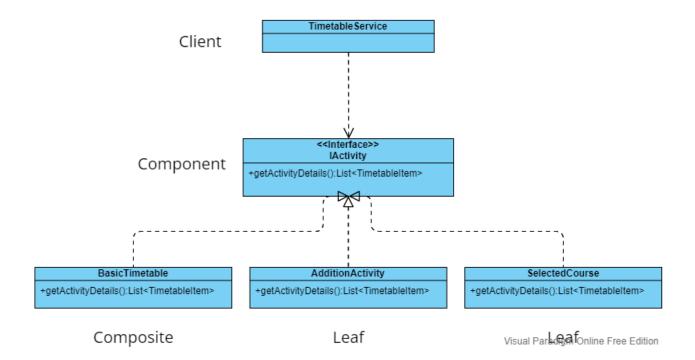
### State Pattern(Check status & Permissions)



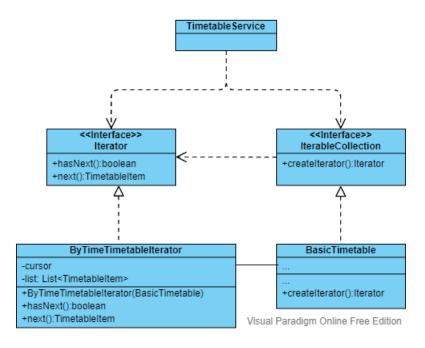
### Factory & Singleton



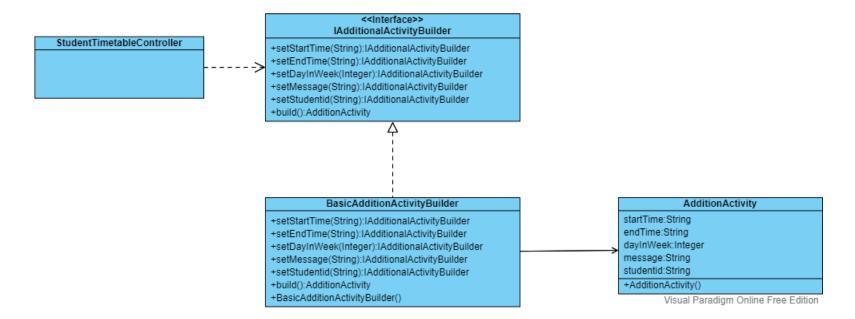
## Composite Pattern(Timetable)



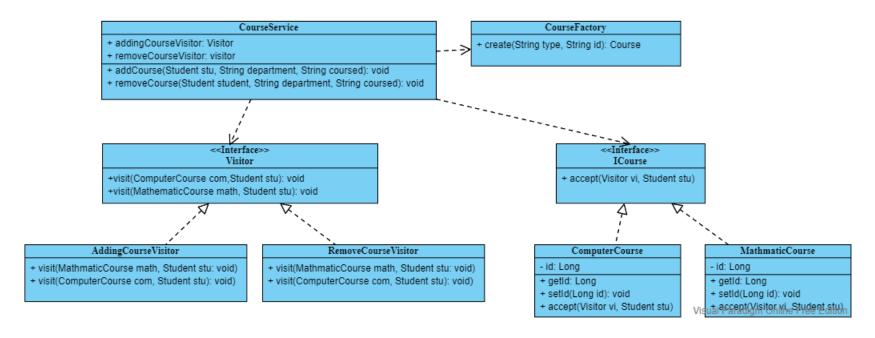
## Visual Paradigm Online Tree Edition Pattern(Timetable)



### Builder Pattern(Create AdditionActivity object)



# ${\hbox{\scriptsize Visual Paradigm Online Free Edition}} \quad {\hbox{\scriptsize Visitor Pattern (Requirement 4)}}$

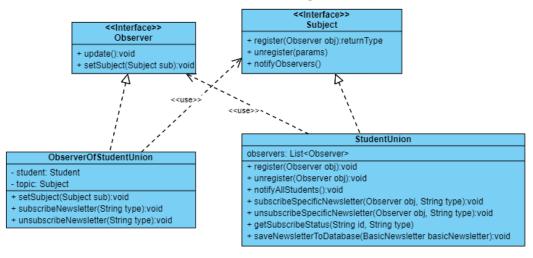


### $\begin{array}{c} {\ \ \, \text{Visual Paradigm Online}} \overset{\text{Eree Edition}}{Decorator} \ Pattern \ (Requirement 5) \end{array}$ <<interface>> StudentBehavior + setSubject(Subject sub):void + subscribeNewsletter(String type):void + unsubscribeNewsletter(String type):void Student StudentDecorator - student: Student - topic: Subject + StudentDecorator(StudentBehavior) + setSubject(Subject sub):void + subscribeNewsletter(String type):void + unsubscribeNewsletter(String type):void ObserverOfStudentUnion - student: Student - topic: Subject

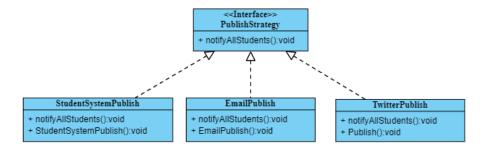
+ ObserverOfStudentUnion(StudentBehavior)

+ setSubject(Subject sub):void + subscribeNewsletter(String type):void + unsubscribeNewsletter(String type):void

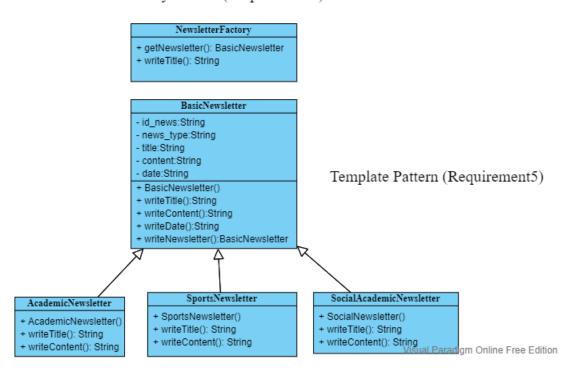
#### Observer Pattern (Requirement5)



### Strategy Pattern (Requirement5)



# ${}^{\text{Visual Paradigm Online}}\ddot{F}_{actory}^{\text{ree Edition}}Pattern~(Requirement5)$



### Adapter Pattern (Requirement6)

