

# Lab : MVC

## Exercise 2 – The view

### 3. Why this method is declared protected final ?

This method is protected because it is only used by the daughter classes, and final because this method returns the model and the model is a final attribute (initialised only once in the constructor and not modified afterwards).

### 6. Is the field GUIListener declared final in AbstractView ?

The field GUIListener is not final because there is a method setController that initialises the controller attribute.

## Exercise 3 – The controller

### 1. Why the controller has a reference to a UserList for the model (and not a reference to a Model) ? Why it has a reference to a View for the view (and not a reference to a GUI) ?

The controller has a reference to a UserList and not a Model because it has to update the model (write mode). It has a reference to a View, which is an interface because it only needs to read the data from the view (read mode).

## Exercise 4 – Observer

### 2. How to make the GUI an observer ?

Simply by adding 'extends Observer' in the interface View, that GUI implements.

### 3. Where to implement the method update from Observer ?

The method update should be implemented in GUI class.