

Subject Observer Pattern Exercise

IN710 Object Oriented System Development

Introduction

In this exercise you will build an application that models the follower relationship used by services like Twitter.

1 The problem

Your application will allow an individual to enter short messages. It needs to model two other individuals who “follow” the first one. Whenever the first one enters a new message, the message feeds of the other two must update to include newly entered message. This kind of relationship can be modelled with a *subject-observer* pattern.

2 The task

Write a PyQt application that does the following:

- It will provide a text entry box in which a user can enter a short message.
- It will include two text area boxes that display the message feeds of two other people.
- When a new message is entered, that message will be prepended to the message feeds in the text area boxes.
- Each message is to be prefaced with a sensibly formatted timestamp.
- These behaviours are to be implemented with a `User` class that supports a follower/followed relationship.
- Include an appropriate unit test suite for your `User` class.

Commit your code and push it to your GitHub account. We will discuss your solutions in class next week.