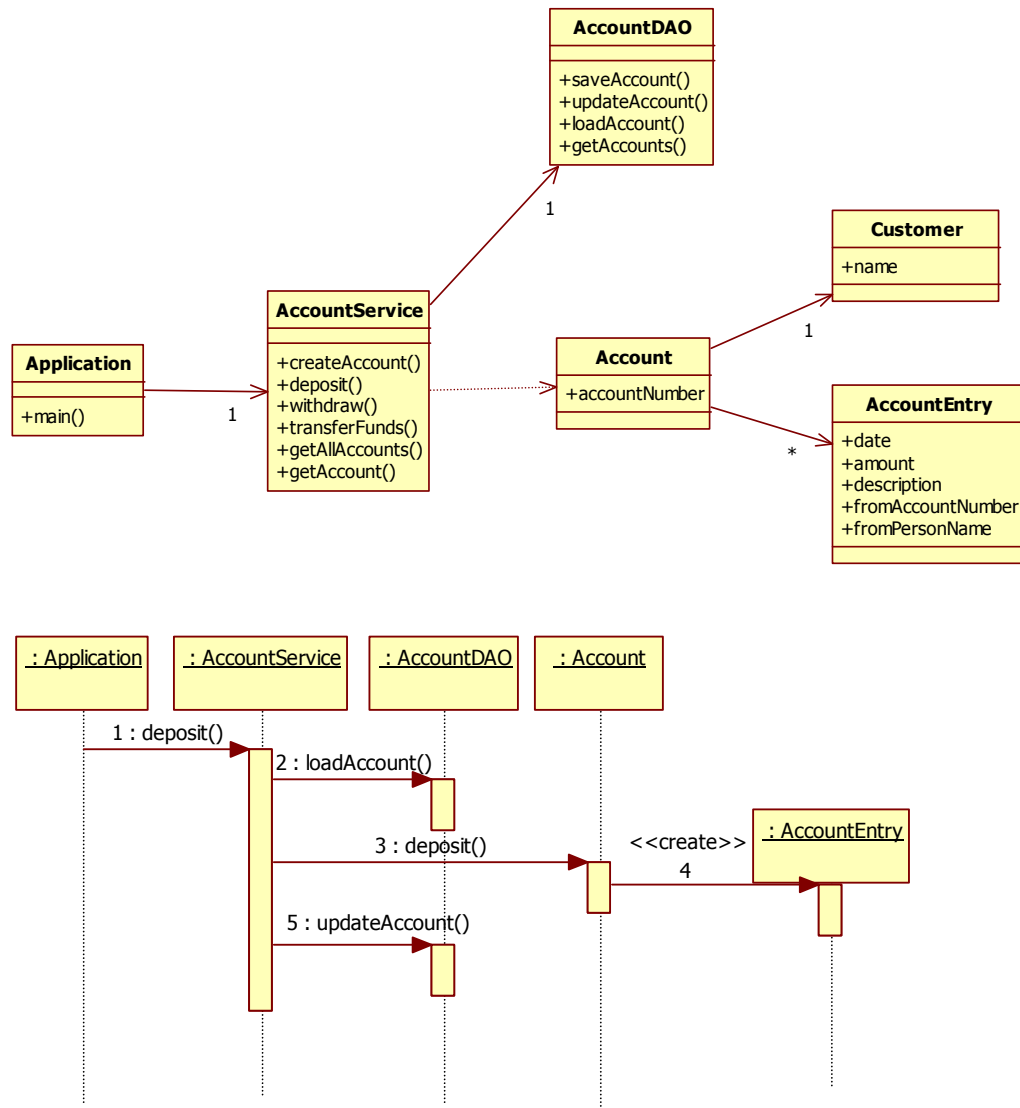


Observer pattern Lab

Given is the following bank application:



We want to add new functionality whenever the Account balance is changed. Implement the observer pattern in the given code. Add the following observers:

- Add a Logger class that logs every change to an Account. (The Logger should do a simple `System.out.println()` to the console)
- Add a SMSSender that sends a SMS at every change to an Account. (The SMSSender should do a simple `System.out.println()` to the console)
- Add an EmailSender that sends an email whenever a new Account is created. (The EmailSender should do a simple `System.out.println()` to the console)

- a. Draw the modified class diagram with the observer pattern applied.
- b. Draw a sequence diagram that shows how your new design works. On the sequence diagram you should show how the observer pattern works
- c. Implement the observer pattern in the given code. You should implement the observers given above.