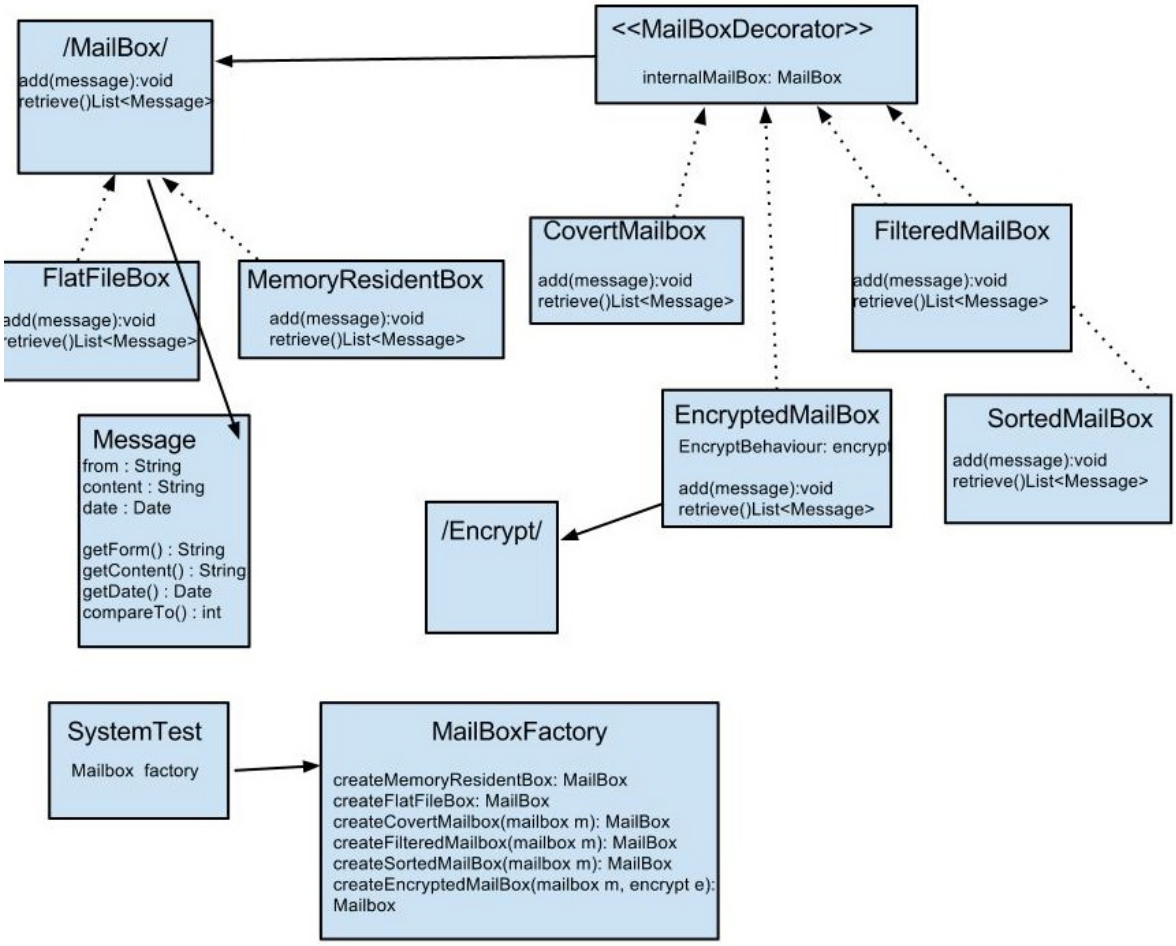
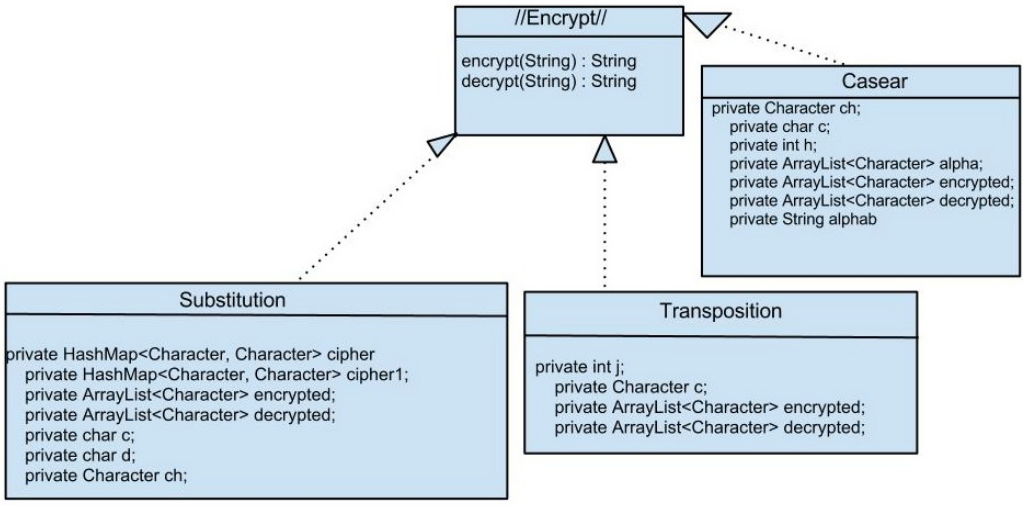
Allison Samson
Lab 3





In order to follow the decorator pattern, I created an abstract MailBoxDecorator class that implements the MailBox interface, this class simply contains a mailbox object name internalMailBox. I used the strategy pattern with the EncryptMailBox so that the user could set which encrypt/decrypt pattern to use. In order to sort messages in SortedMailBox, I added a compareTo method in the message class, which extends the comparable class. With Mailbox factory I implemented the wrapping of mailboxes by creating six different methods that called on the constructor of its respective mailbox. Four of these methods (Sorted, Encrypted, Covert, and Filtered) all were given and passed on a mailbox object to the constructor and returned the new object.