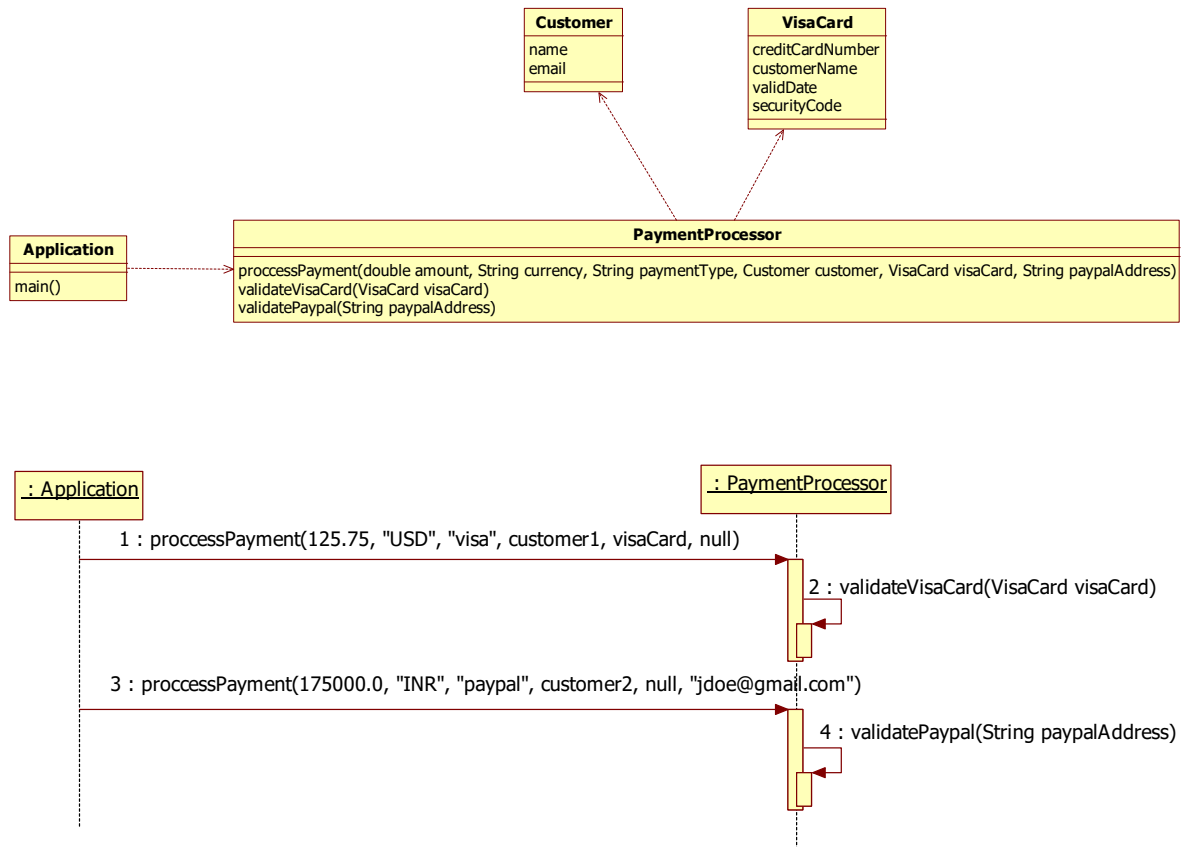


e.

Given is the following application:



With the `PaymentProcessor` you can process payments. The given implementation supports both Visa Card payment and PayPal payments. The problem with the given implementation is the `processPayment` method is large and complex which makes it hard to add support for other payment methods like MasterCard payments.

Draw the class diagram of a better design using the template method pattern.

Draw the corresponding sequence diagram

f.

Implement the template method in the given Payment processing application so that it is easy to add support for new payment types. The output of your application should be similar as the output of the given application.