CENG451
Information Systems Development
Homework 2

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Introduction

In this homework we are required to apply No Code COSE method when creating the Translation Agency system. We are required to create a Graphical UI, Process Diagrams and Component Diagram. These diagrams are added below. The figures are structured in the following order: First Graphical UI, then corresponding process diagrams and arrows that show the corresponding methods in the component diagram.

One important issue is to explain the inquiry and translation relationship in our project. In our design, "Inquiry" is actually used to define the parent request created by the customer that includes the documents to be translated. After an offer is accepted, Inquiry changes states in the system. The documents are held in the "Inquiry" as "Translation" objects. The due date, cost, customer information is also held inside the inquiry. Translations hold target language, translators, translation state, document and many more. The process models and the functions are created according to this decision.

Another important thing is, users can only access the part corresponding to their role in the GUI, contrary to what is shown in the Figure. So, for example, when a Customer is logged in to the app, only the Customer part will be visible and others columns will be invisible. The invisible buttons are shown in grey color in the GUI part. In addition, if the user is not logged in, no item in the GUI can be clicked except for the "Manage Account" button.
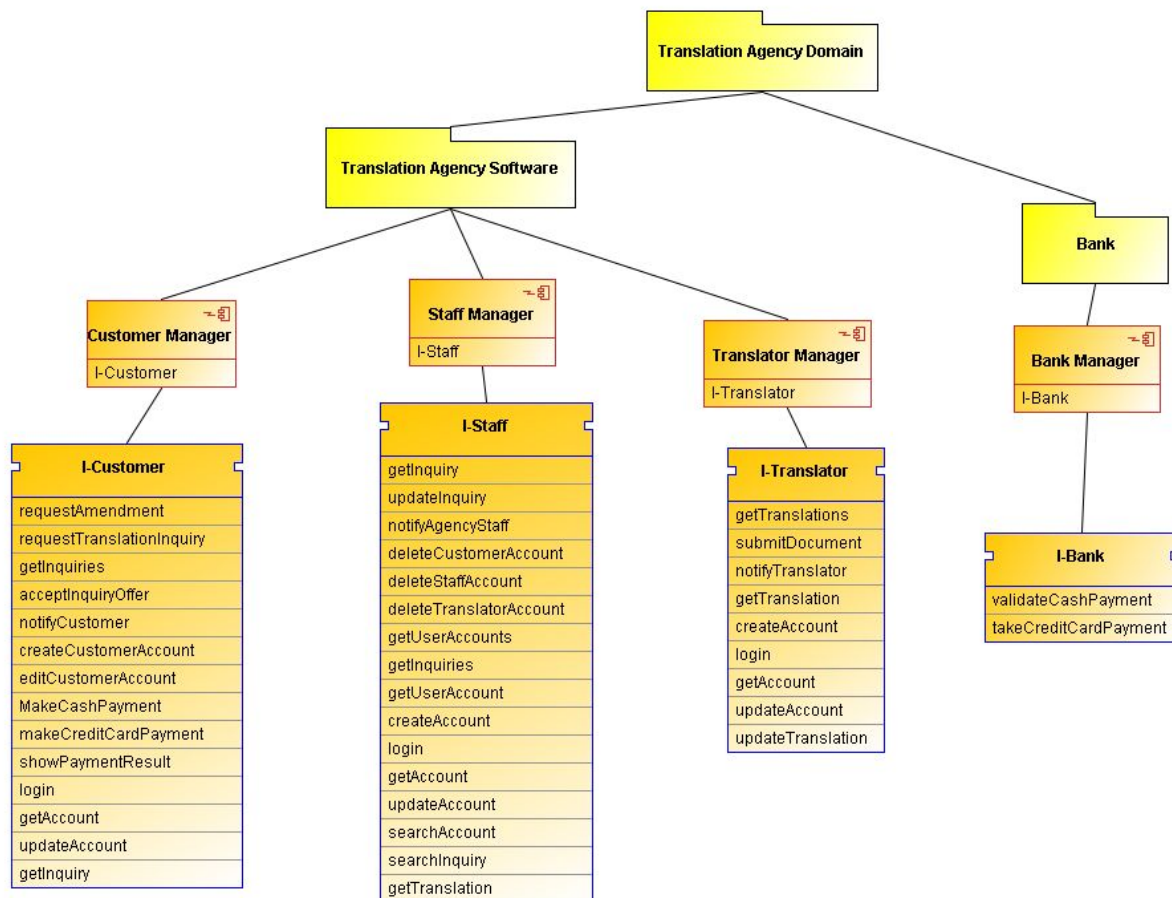
Component Diagram

Translation Agency Domain

Translation Agency Software

Bank

Customer Manager
I-Customer

Staff Manager
I-Staff

Translator Manager
I-Translator

Bank Manager
I-Bank

I-Customer
requestAmendment
requestTranslationInquiry
getInquiries
acceptInquiryOffer
notifyCustomer
createCustomerAccount
editCustomerAccount
MakeCashPayment
makeCreditCardPayment
showPaymentResult
login
getAccount
updateAccount
getInquiry

I-Staff
getInquiry
updateInquiry
notifyAgencyStaff
deleteCustomerAccount
deleteStaffAccount
deleteTranslatorAccount
getUserAccounts
getInquiries
getUserAccount
createAccount
login
getAccount
updateAccount
searchAccount
searchInquiry
getTranslation

I-Translator
getTranslations
submitDocument
notifyTranslator
getTranslation
createAccount
login
getAccount
updateAccount
updateTranslation

I-Bank
validateCashPayment
takeCreditCardPayment

Figure 1: Component Diagram

Common Processes

Processes that are common for all users of this software are listed here.
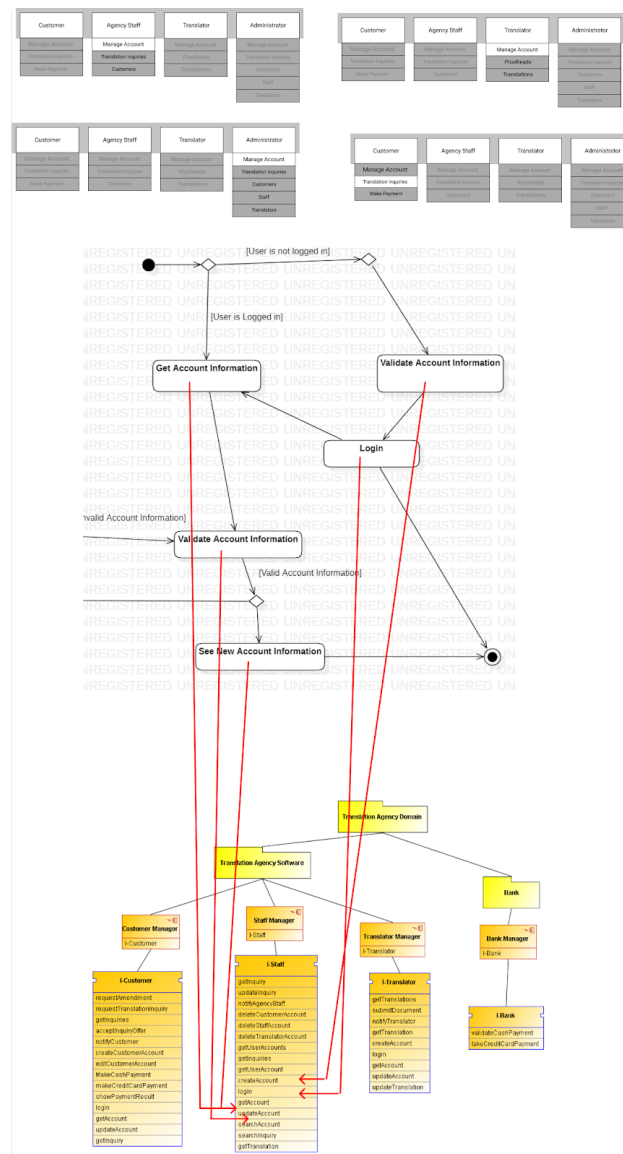
Manage Account

Figure 2: UI, Process Diagrams and Component Diagram for Manage Account

Once the user is logged in, the managed account will provide a screen with account information, this interface will have an edit button on it. In the model arrows only point to staff interface functions however you can assume that other users will use the same functions in their interfaces.

Staff - Administrator Common Processes

Processes that are common to Administrator and Staff users of this software are listed here.

View and Edit Translation Inquiries
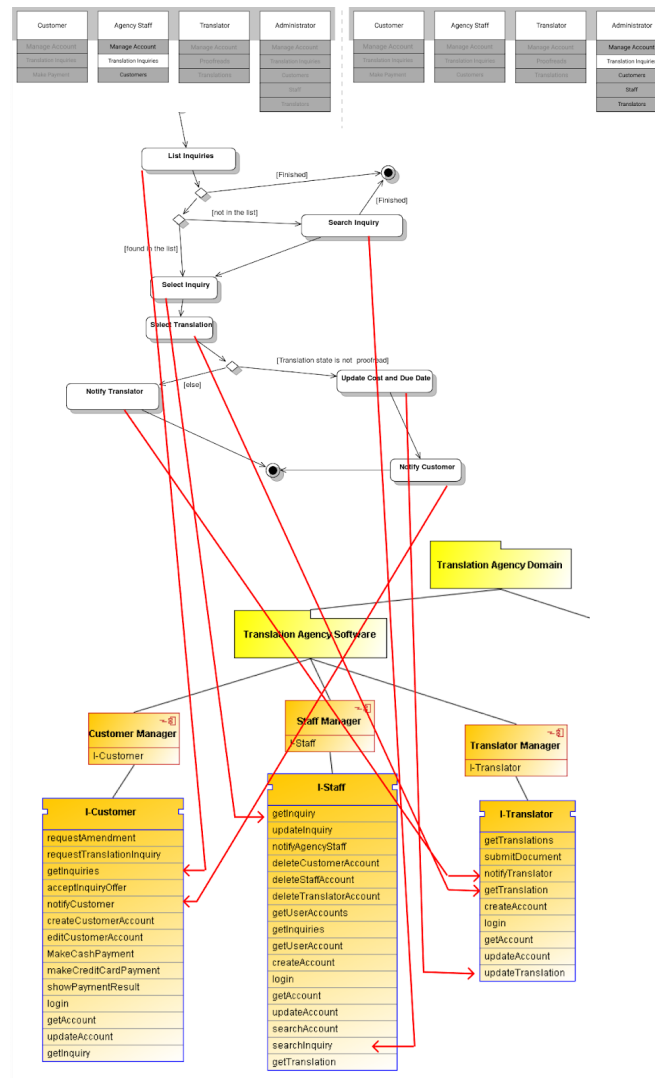
Figure 3: UI, Process Diagrams and Component Diagram for View and Edit Account of Agency Staff/Administrator

Both Agency Staff and Administrator can view and edit translation inquiries through the GUI. Thus, they have the same process diagram.
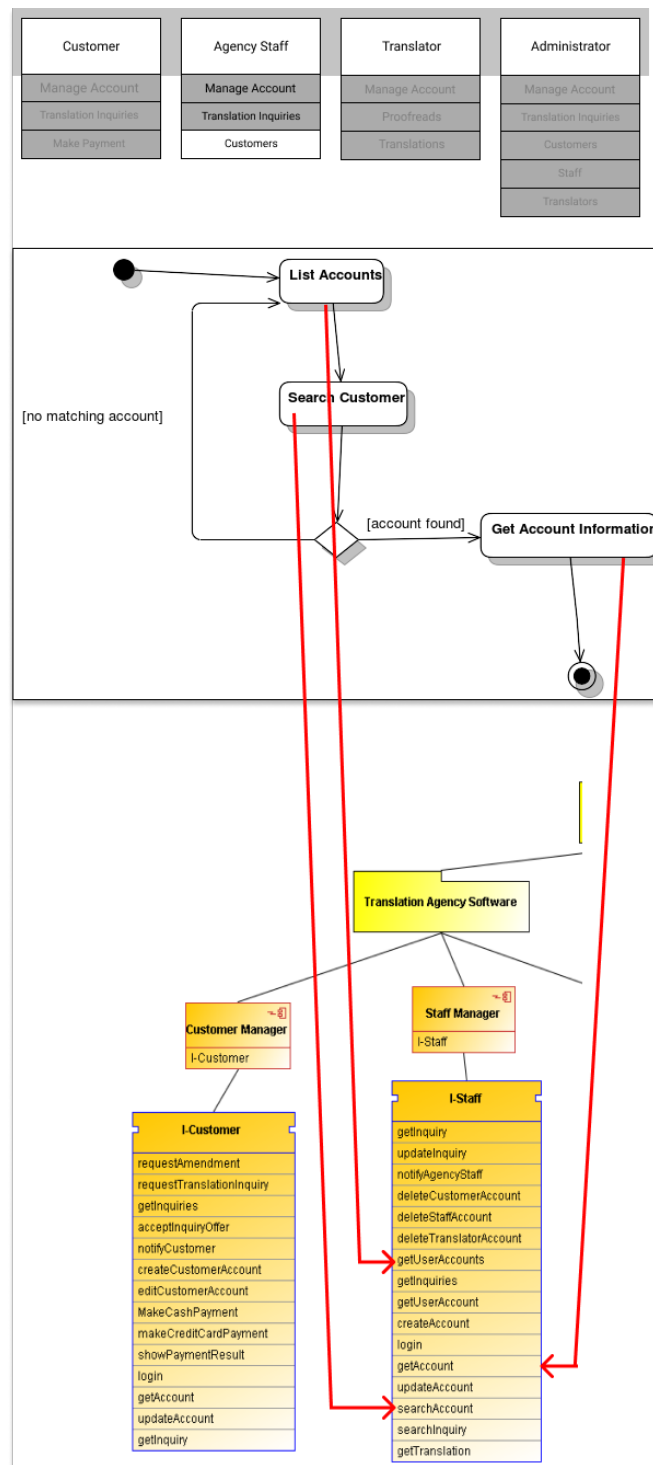
View User Accounts

Figure 4: UI, Process Diagrams and Component Diagram for View User of Staff

Administrator Processes

Besides its common processes with staff, additional capabilities are listed here.
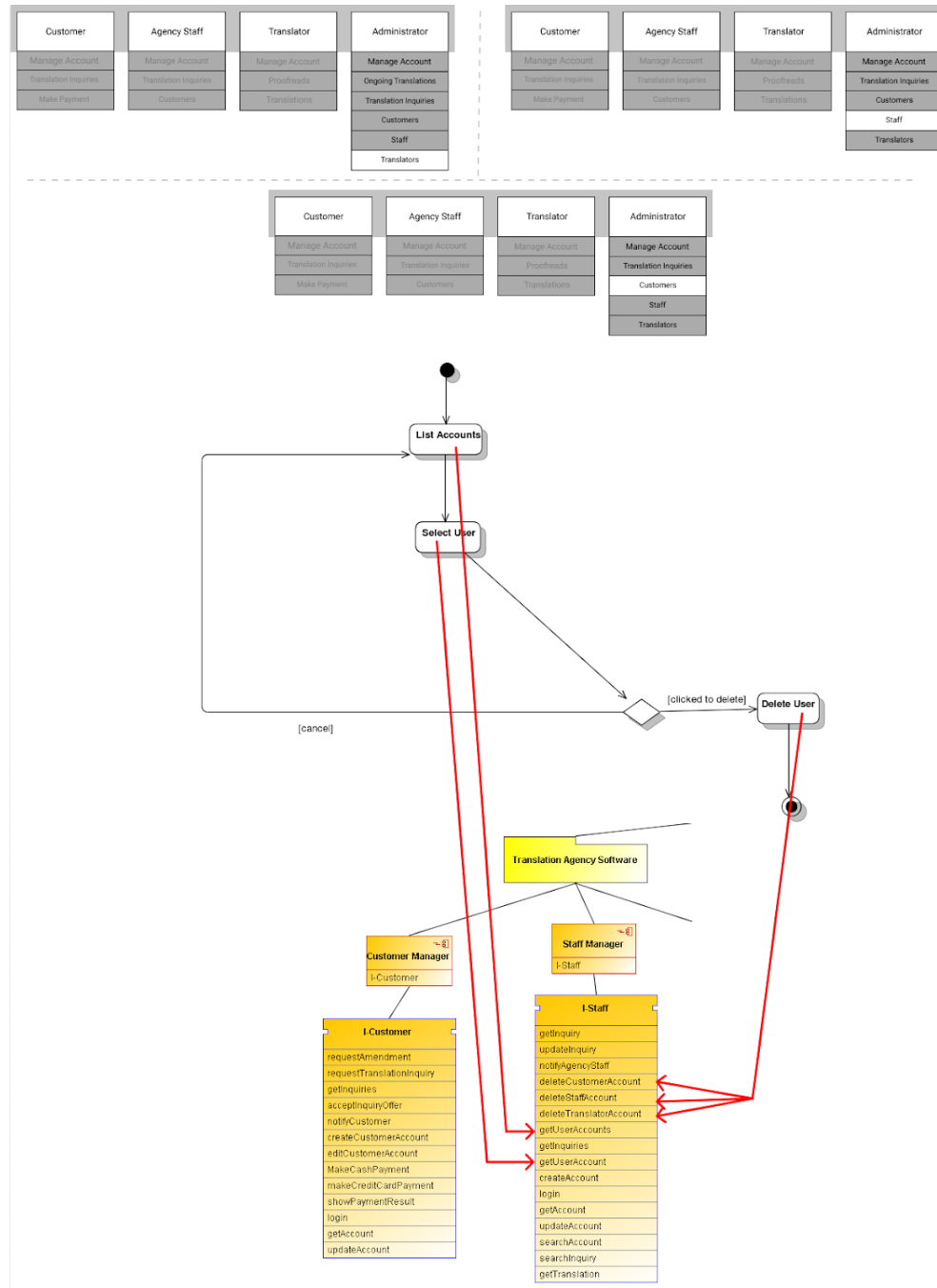
Delete User Accounts

Figure 5: UI, Process Diagrams and Component Diagram for Delete User Account of Administrator

The Administrator can delete customers, staff or translators. All three options have been modeled in the same process diagram.

Translator Processes

Additional capabilities of Translator on top of common ones are listed here.

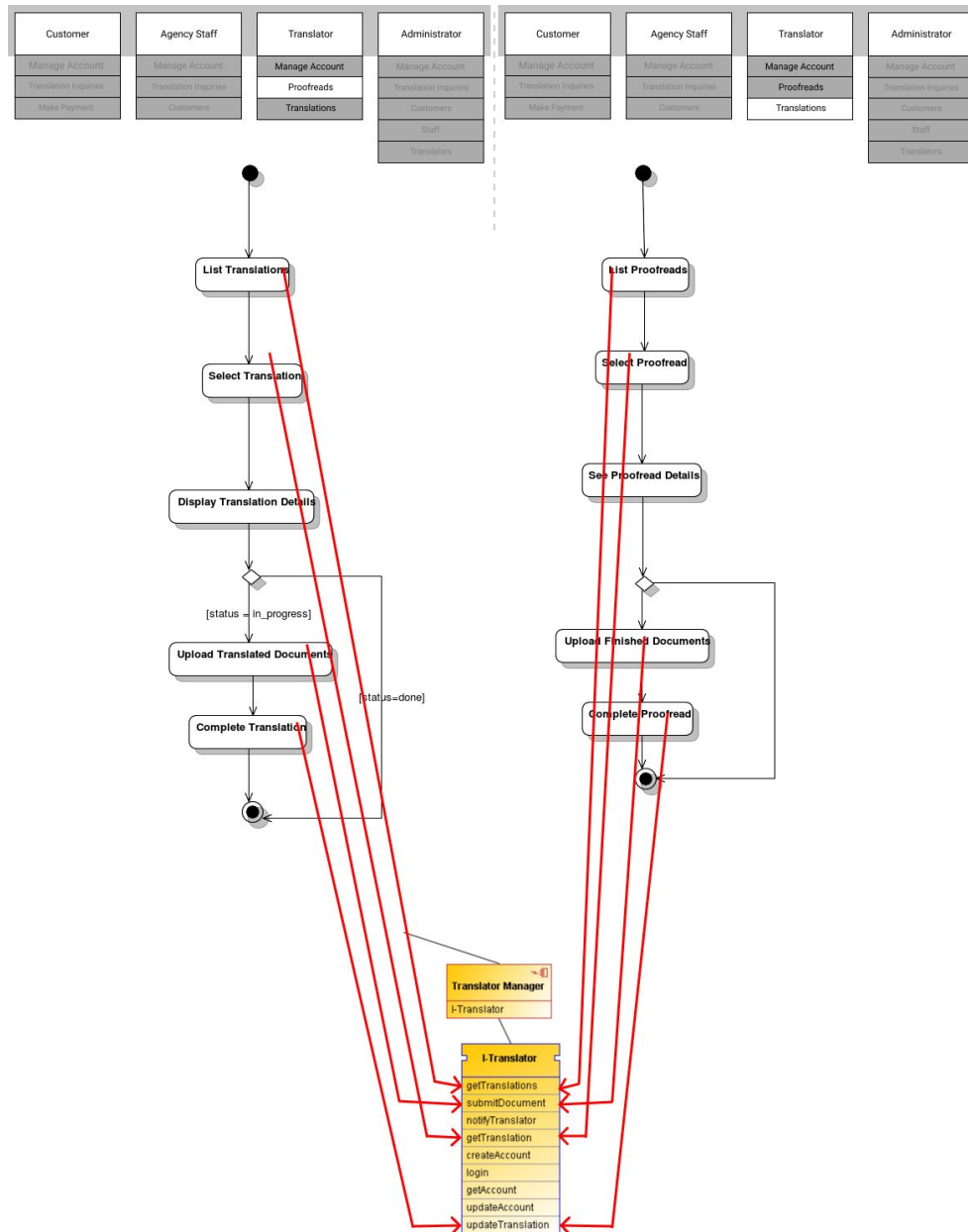## Manage Assigned Translations and Proofreads

Figure 6: UI, Process Diagrams and Component Diagram for Translator

The Translations and Proofreads are handled exactly the same by the Translator. Therefore it is shown together in Figure 6.

Customer Processes

Additional capabilities of Customer on top of common ones are listed here.
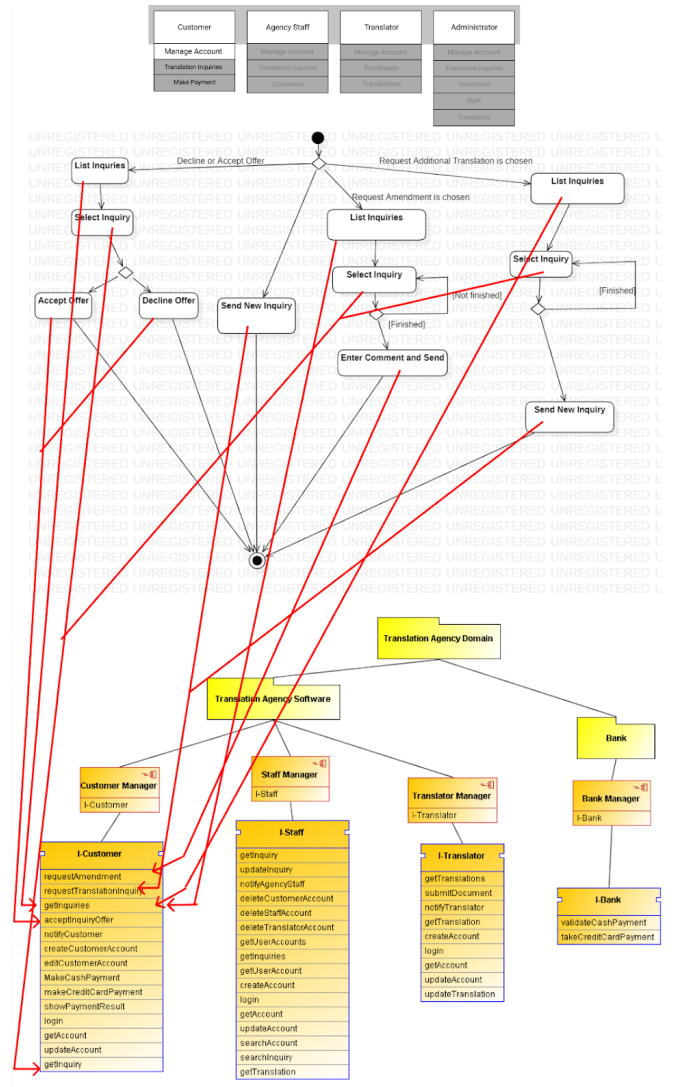
Manage Inquiries

Figure 7: UI, Process Diagrams and Component Diagram for Customer Manage Inquiry

Once the button "Manage Translation" is clicked, the customer will see 4 options: Accept or Decline Offer, Send New Inquiry, List Inquiry, Request Amendment. The process model changes according to which one is chosen.
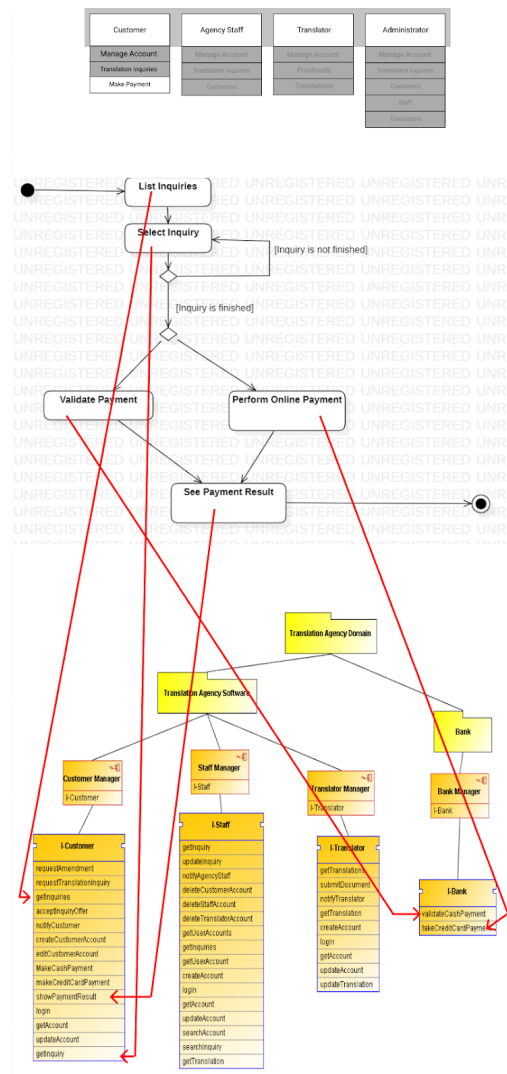
Make Payment

Figure 8: UI, Process Diagrams and Component Diagram for Customer Make Payment

Customers can either pay with card or cash. When make payment is clicked the customer will see 2 options one is make cash payment the other is make credit card payment. The process model changes according to chosen choice.