



## CENG 451

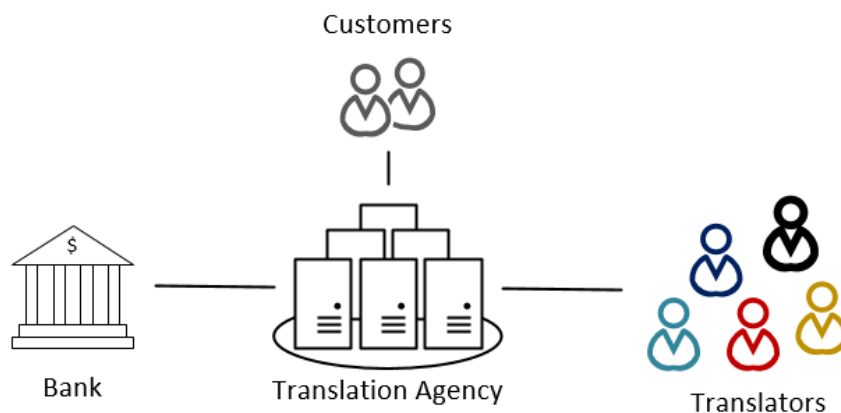
### Information Systems Development

Fall 2020-2021

### PROJECT DESCRIPTION

## TRANSLATION AGENCY

Translation Agency aims at translating documents from its original language to target language(s) that customer specifies. Basically, the agency has a pool of diverse translators dedicated to different languages and establish a bridge between customer and translator(s). A visual description of the translation agency system is provided in Figure 1.



**Figure 1.** Description of the Translation Agency System.

Concerning the translation request initiation, the customer sends a translation inquiry by specifying the original (Turkish) and target language(s) (such as German and/or French),

due date and attaching the document. Whenever the agency receives an inquiry, the agency staff calculates the cost of translation and prospective delivery date and sends an offer to the customer. If the customer accepts the offer, the agency staff sends the document to the translator(s). When the translator(s) finishes the translation, the translation is sent back to the agency. The agency should also guarantee that the translation is appropriate by requesting proof-reading from another translator before it is sent to the customer. After proof-reading, finalized translation is delivered to the customer and the payment is received simultaneously. Concerning payment, cash and credit card payments are acceptable at the customer's choice.

Customer can also add more translations to his/her current request. For instance, let s/he requests the translation of passport from Turkish to Italian. While the translation is in progress, s/he can request additional translations, such as translation of diploma or her/his identification card. Therefore, the agency keep track of documents belongs to the specific user and should deliver them in time.

Besides, if the customer requests amendments in the document, the agency sends the amendment request to the translator(s) that has previously translated the document. After corrections are completed, the finalized version of the translation is sent back to the customer.

The agency can list, search and update existing inquiries from customers and ongoing translations. Moreover, the agency staff can get detailed information about specific customers. The staff can update existing inquiries from customers and ongoing translations such as delivery time and the payable amount.

Customer and agency staff can create and edit their own accounts however only the one from agency holding administrator role can delete users. All operations are logged in order to be analyzed further with timestamp.

## **Translation Agency in NoCode COSE**

Your project is to develop the Translation Agency application using the NoCode-COSE approach. As introduced in the 'users manual' document, assume the existence of a tool which does not exist completely. Instead, you will use three different existing tools and provide 'hand drawn connections.

## **TOOLS**

### **Process Modeling Tool**

Use any process modeling tool (BPMN is the first choice (tool: signavio, others...)). Second choice: BPEL. Third choice: UML-Activity Diagram. You can use the following link to register to Signavio via your Metumail addresses:

<https://academic.signavio.com/p/register>

### **Component Modeling Tool**

The components part will be developed using the COSECase tool. To download the tool go to the web page:

<http://user.ceng.metu.edu.tr/~COSEML/>

and download the first two files: jar for the tool and the users manual. ATTENTION- there is one difficulty in using this tool – after placing the first element on the screen, the next ones require this knowledge: after selecting the element to add from the toolbar, go over the existing element with your mouse in the workplace and you will see 4 handles appearing (top, down, left, and right). You have to click on one of these handles to connect the new element to that side of the existing element. Otherwise, the next element cannot be placed! if you click elsewhere, you have to select the element from the toolbar again.

### **GUI Design Tool**

You are free to provide the drawing for the Menu in the GUI, prepared in any tool (word, powerpoint etc.).

Finally, the important part is to deliver your report in a readable document format (preferable word or pdf). To show the connections between the process model and the components, use a drawing tool, include the process model at the top and the component model at the bottom, DRAW LINES between the boxes and functions.

Besides delivering all kinds of files, the most important one is the report document in a readable format. The other files include tool design files (mdj, cml,...)

Your deliverables (besides some being connected in one page diagrams), are:

- 1- Menu (GUI)
- 2- Process Model(s)
- 3- Component Model
- 4 Hand-drawn connections among the elements of these models.

Suggested architecture is after providing the GUI, provide one separate process model for each menu item. Make sure to provide the most important process models. You can ignore the trivial easy models. Complete solution receives bonus points. You can provide one page in your document per process model which is connected to the components at the lower-side. At each page, the same component model could be repeated, however keep specific (and correct) connections (hand-drawn) on each page.

### **Submission:**

This is not a formal document, no format or textual explanations are necessary unless you feel they are very important for the understanding of your work. Only the models in an understandable manner is requested. (including trivial material results in reducing points). You will work as **groups** for this project.

Upload your finished assignment with all files to the ODTUClass until **10/01/2020, 23:59**. Compress all of your work into a single file and name it according to your group number. Do not forget to include your group number, put student IDs and names of group members in your submissions.