

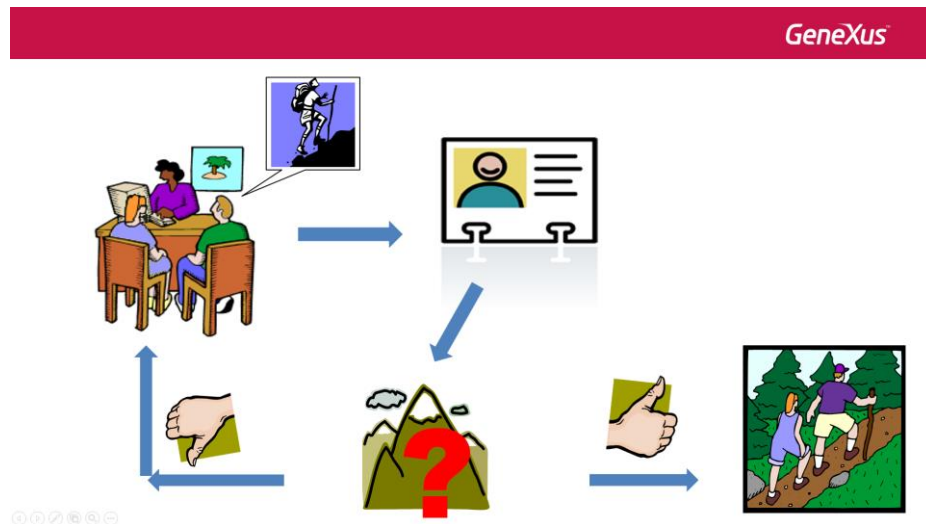
Business Process Management (BPM) with GeneXus

When developing computer systems, we often encounter the need to model a series of tasks that are logically related and are performed one after the other as part of a work flow. This is what we call a business process.

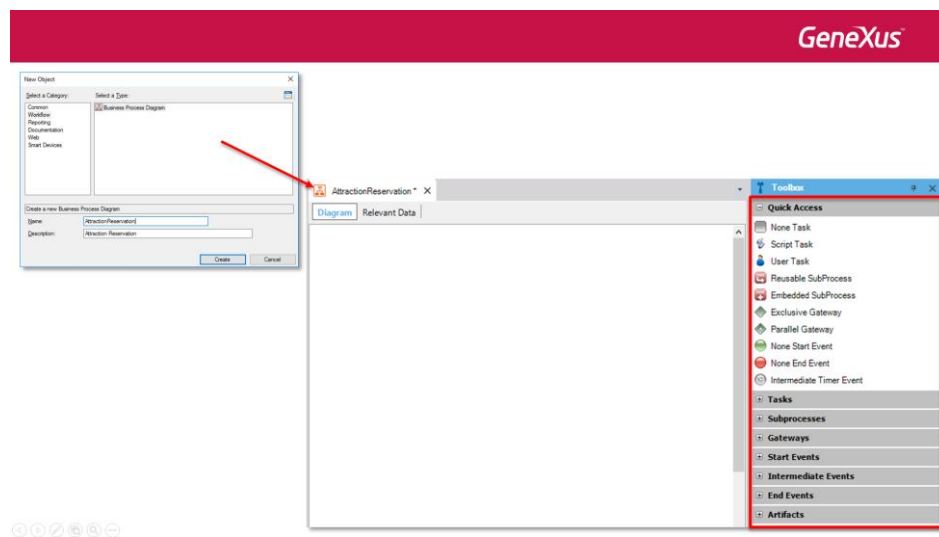
GeneXus enables the possibility of modeling, executing, managing and optimizing business processes through the tools provided by the Business Process Management Suite.

Within the reality of the travel agency, an example of business process would be the booking of a tour package for a given attraction. In such process, when we enter the reservation, we must verify that the individual requesting the package is a customer at the agency. Otherwise, the customer will have to be entered as such.

After we ask the desired destination, if spaces are available, then we proceed to the reservation, or otherwise offer a visit to a different attraction. A possible flow for the tasks would be the following:



To model a business process in GeneXus we create an object of the Business ProcessDiagram type.



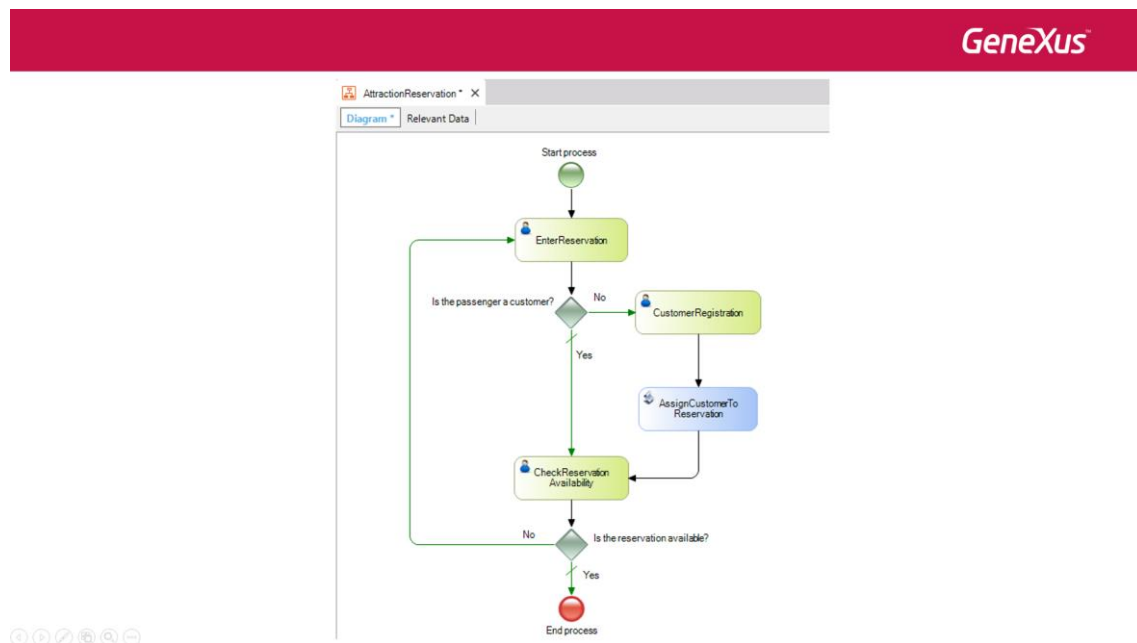
Video filmed with GeneXustm15

When this is done, a blank page opens up for the diagram we will be building. If we open the toolbox, we will see that there is a number of symbols for us to use, all related to the international standards used for modeling business processes.

To start our modelling, we drag the symbols from the toolbar to the diagram, starting with a start event, a None Start Event.

As we do this, we will see that, upon selecting the symbol, next to it we get the suggested symbols with which we could continue the diagram. So, we continue dragging symbols until we have modelled our process.

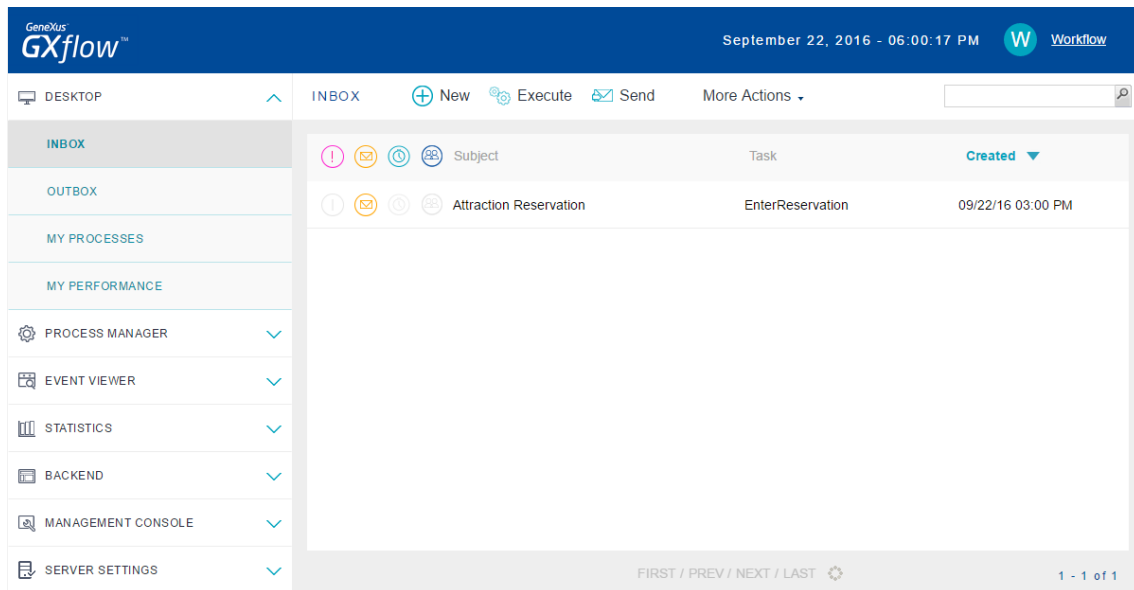
For the reservation of the tour package, the business process model would be the following:



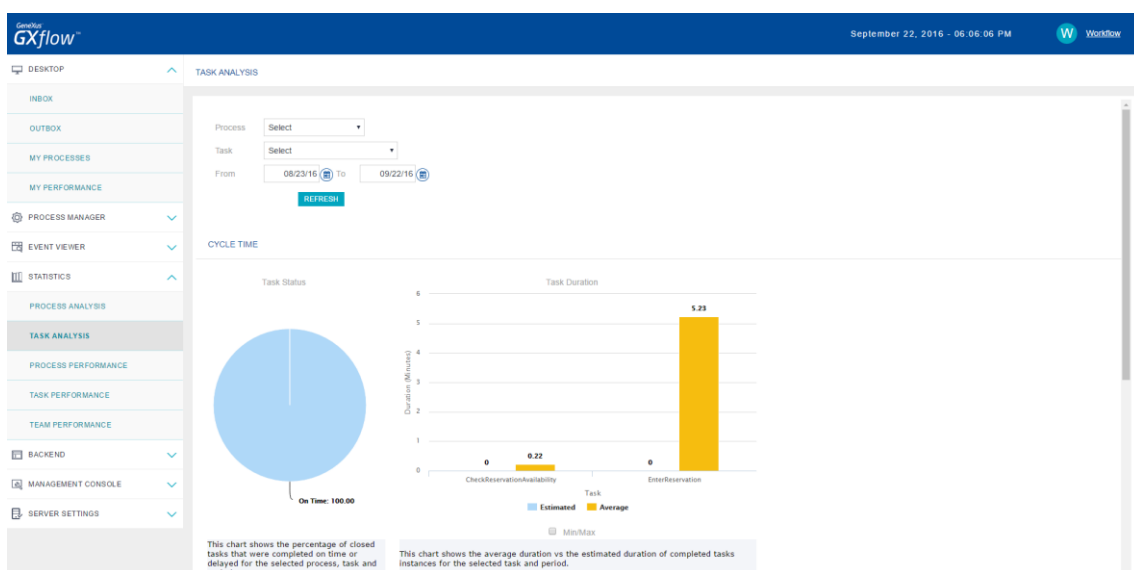
It involves interactive tasks where the user is required to provide information (in green), as well as non-interactive tasks carried out by the system (in blue), and a series of decisions made by the system, based on the data entered by the user.

Once the model is done, we may associate GeneXus objects with the diagram's tasks and turn our diagram into an executable application.

The execution and administration of the tasks in the process is done with different GXflow tools. Depending on the permits and users that we define, a tray -similar to those in e-mail systems- will be opened for each user, showing the user's tasks that are pending execution, and the status for each of them.



With the GXflow client, a process manager will be able to manage user and permits, and to monitor the execution of the business process, in addition to altering the order in the execution of the tasks, with changes to the process' flow. There will also be the possibility of optimizing the business process by means of tools and statistical measurements.



There are specific courses on how the Business Process Management Suite and its tools may be applied. In order to find out more about the management of business processes with GeneXus and about the BPM Suite, we suggest you visit the following link:

<http://www.genexus.com/flowdocs>