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The present master thesis has the aim to prove theoretically and practically the possibility to design and develop a system that is capable to generate reports using different sources of data. These data sources could be databases, xml files and in perspective web services. Except to access data the system must provide an opportunity for their processing before adding them to the report. The processings that could be performed over data might be very different in their nature and it is the reason to use complex resources for achieving them.

Creating a workflow stands as requirement for organizing and defining the sequence of steps that are necessary to be undertaken to generate the report. For simplifying design and implementation of the workflow it is necessary to separate it in different parts called components. In this way by creating different components it is possible to assemble the whole structure of the workflow and its characteristics, and also to provide a way to extend it with new components. The component structure not only helps to build the system more easily, but also provides a way for its simple, fast and complete testing in this way increasing its quality.

There might be certain requirements which demand on the report to be easily verified, corrected, modified and extended with additional functionality. Satisfaction of these requirements is related with using the appropriate format and the appropriate structures. This is the main reason to use xml format for describing the report and xml tags for building the components.

Each report might contain numerous and diverse by its type data. Except by the content of the data characterising the report, the latter must be able to be presented using other resources. For example it might be necessary to visualize the report before printing it or export the report's data as different file types.