

## Aspects Related to the User Interfaces of the Environmental Management System Developed in the MEMDUR Project

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### SUMMARY

In general, a *user interface* represents a graphical, textual or media information which allows the people (“users”) to interact with a system. Practically, the user interface offers the possibility to control the system input (manipulating the system) and to monitor the system output (knowing the results of user’s manipulation). The management system designed in the PN2 project “Sustainable Management System of Resources Used for Monitoring and Evaluating the Environmental Risks in Order to Prevent the Negative Effects and to Manage Crises Situations - MEMDUR” (<http://memdur.ssai.valahia.ro>), code D11-037/18.09.2007, is based mainly on an application which consists of two distinguish parts: one is representing by a *visualization unit*, designed by a special interface, and another is defined by a *management unit*, giving the possibility of managing the data stored in the system database.

The MEMDUR application is structured function of type of the user who accesses the application. Once the application is accessed, the interface opens the *HOME tag* of the *guest* user. This part contains public information recorded from the measuring stations (a. environmental atmospheric parameters: wind speed and direction, air temperature and humidity, atmospheric pressure, solar radiation, precipitation quantity; b. noxes levels: CO, NO, NO<sub>2</sub>, SO<sub>2</sub>, PM10 dusts). For the users which have special rights (administrator, data processing), a *LOGIN tag* is available in the application interface. The tag gives access to a different interface where several operations are allowed: a) introduction of new measuring workstations in the system; b) modification of an existed workstations in the system; c) definition of one new measurement point for an existed workstation; d) modification of the measurement point for an existed workstation; e) introduction of new parameters; f) modification of the existed parameters in the system; g) introduction of the measurements; h) modification of the realized measurements; i) export of the measurements (when this is required by the user). All the operations mentioned above are made through special software procedures (which can be launched by the user using specific buttons included in the interface). The export of the measurements is made in *XML format*, hourly and the data is saved in specific *xml files* on the server hard disk.

### REFERENCES

1. \*\*\* MEMDUR Project Webpage (2007-2009). <http://memdur.ssai.valahia.ro>