DEVELOPING AND IMPLEMENTING A SOFTWARE SYSTEM DESIGNED FOR EASY MANAGEMENT OF THE PATIENTS TREATED IN THE BUCHAREST VETERINARY FACULTY CLINICS

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SUMMARY

The project’s main objective was to develop a software application that works in an intranet environment (being accessible from multiple terminals) with an associated database that allows easy and intuitive computer-assisted management of the patients that are investigated and treated in our University’s Clinics.

The software is composed of two major components. The database (created with Microsoft SQL Server) and a graphic interface that allows the user-system communication (made with the ASP web-scripting language and accessible through Internet Explorer). These solutions were chosen because they show advantages like being very reliable, low hardware system requirements, easy maintenance and are also available as „freeware” applications.

The software was implemented and currently functions on the intranet UTP network of the University’s Veterinary Clinic, system that now counts approximately 20 computer terminals plus one server.

The system is capable to recognize different users through a personal password authentication method and also it can assign different access levels to each user. At the present time there are three different security levels: one for students (with access only in visualization-mode), one designed for the medics (with access to the usual patient data and medical records) and one reserved for the clinic’s supervisors and the system administrator (with full control over the software’s internal options).

The medical record itself has both a patient’s identification component, into which are recorded data like species, race, age, weight plus the owner’s details and a clinical component where the medical personal can collect the patient’s medical history and clinical symptoms, can specify the diagnosis and the prognosis and can record the treatment and the procedures that the patient was given.

One of the main priorities during the developing phase of the application was to make the user’s work with the software as easy and intuitive as possible. The result was the implementing of many automated features (like medical record’s number and current date), printing capabilities and rolling menus (for all the products and procedures in the database). At the same time, due to the program’s extensive modularity, it can be modified and upgraded permanently to be kept up-to-date with the users’ demands.

REFERENCES