

“E-Quiz” Project

Problem description

The main objective fulfilled by the E-Quiz software system is the evaluation of the students' knowledge with the help of the quizzes.

In order to be used, the user has to login to the system. The system accepts three kinds of users: administrator, professor and student.

In the following we describe the system from the users' perspective.

- The administrator has the responsibility to send to the system information about the curricula of the faculty specializations.
- The administrator may introduce new users. For each kind of user, he or she types different information. For instance, for the administrator type, he or she introduces a username, a password, and first and last names. When that administrator will login for the first time, he or she has to type a question and its answer. The question and its answer are used if the administrator forgets the password.
For the professor type, he or she introduces a username, a password, and first and last names. When that professor will login for the first time, he or she has to type the courses, that the professor teaches at each specialization. For the student type, the administrator introduces a username, a password, first and last names, the specialization name and year.
- The administrator can modify or delete the data about the users, if this thing is necessary. In this case, the administrator uses to system sending the username and the system shows information about the user found.
- After login, the professor can introduce the quiz of a discipline that he or she teaches in the current year. For each quiz element, the professor has to type the question, one or more correct answers and the score of each right answer. The system memorizes the inserted data.
- The professor can delete one or more quizzes or disciplines. In order to do that, the professor types the quiz or the discipline name and the system shows one or more results. From these results he or she chooses the one that wants to delete and after the necessary verifications, the system removes it from the persistent storage.
- Before the exams session, the professor has to introduce information about his or her exams: discipline, date, hour, classroom, the time of the examination and the questions number that form a quiz. At the end of the exam, the professor verifies which students have been present during the exam. Also, at the request of the professor, the system shows a report with the students and their marks got from the quiz evaluation.
- After login, each student announces to the system that he or she wants to solve a quiz. The quiz is generated and displayed as a form by the system on the monitor screen. After the student fills the form, the system computes the grade received by the student, displays it and memorizes on the persistent support.

Project Task: Design and implement the “E-Quiz” software system.