RELEVANCE OF IMPLEMENTING SOFTWARE SOLUTION FOR MAINTAINING STUDENTS' DATA FOR CURATORS AND HEADS OF STUDENT'S GROUPS

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The functioning of modern academic processes at the university requires well-organized storage of information related to student data and educational activities, as well as unified access to this information. Automated educational process management system (ASU NP) of NTU "KhPI" allows for such maintenance of students' data in digital form [1]. However, people who arguably need it the most – curators and heads of students' groups – lack access to it. This makes them repeatedly ask for said information from higher-ups, which takes time, as such channels take a lot of resources to be maintained. This leads to uncomfortable situation at the start of every study year where it is not quite certain if there were any changes made to the group lists, and makes heads of student groups repeatedly generate excel sheets by hand to then send out to their teachers. Updating said information also prompts issues, as heads of students' groups have no other way of organizing this information aside from forming an excel sheet, which then has to be input to the existing database by hand. All of this causes a lot of busy work and prompts errors.

To address these issues, a new software component is proposed. This offers a centralized database for heads of student groups, curators, and other authorized users. By leveraging the Spring framework to create a web application, this solution facilitates the import, export, and maintenance of student data. The software allows for the generation of organized Excel sheets for further use, ensuring data remains structured and accessible regardless from time or location.

The software's implementation includes a range of important features:

– import and export of student data from Excel and other formats;

– allowing remote online access for authorized users;

– maintenance of said information, including editing and updating it;

– access for students to update only their own information themselves, access for heads of students' groups or curators to update in case the students are unable to do so.

Additionally, a great importance should be delegated to implementing security measures to protect this information.

By streamlining these processes, the software solution enhances operational efficiency, saving time and effort for heads of students' groups and curators. By doing so it will also save time for teaching staff, who often rely on heads of students' groups to deliver them group lists at the start of the semester. Overall, implementing this solution could lead to great improvements and more organized study processes.

References:

1 Автоматизована система управління учбовим процесом НТУ «ХПІ» (АСУ УП) // http://www.kpi.kharkov.ua/ua/wp-content/uploads/sites/3/2018/05/asu_ua.pdf , 07.05.2024.