

CASE-ORIENTED INFORMATION TECHNOLOGY FOR QUALITY AND SAFETY ASSESMENT SOFTWARE FOR TECHNOLOGICAL PROSESS OF DRUGS PRODUCTION IN THE PHARMASEUTICAL ENTERPRISE

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Introduction. Using the automated equipment in the pharmaceutical enterprises are connect with quality and safety tasks. This choice of such equipment determines the quality of drugs, as each process step and stage of production takes place under the control of the equipment and, consequently, included in his software. Necessary to say, the software quality and safety requirements are important part of the critical information system such as pharmaceutical brunch.

Results and discussion. There are different approaches to the quality and safety assessment of the finished software, however, none of them takes into account the characteristics of pharmaceutical manufacture. In this article we proposed an automated system of quality and safety software assessment, based on the Case-methodology and the author's method, which call «AFEUR».

«AFEUR» architecture represented at Fig. 1.

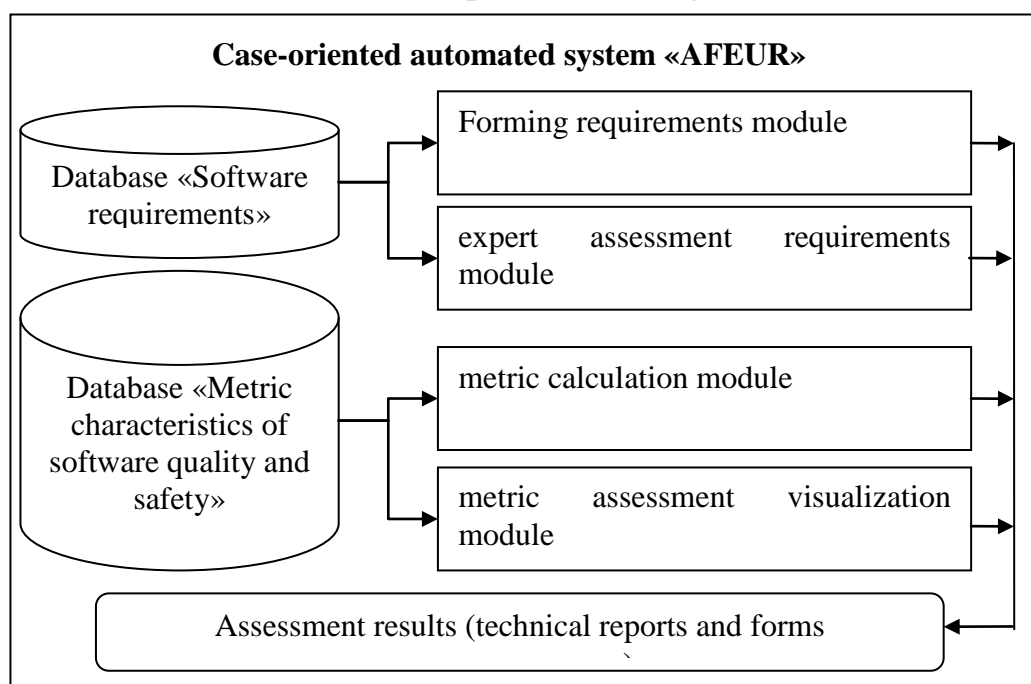


Fig. 1. «AFEUR» architecture

This system includes:

- Web-oriented interface with two languages;
- the software requirements database;
- hierarchical model of software requirement and it visual representation;
- integral for

- requirements assessment based on expert-lists;
- integral index and average gravimetric factors calculation;
- radial-metric diagram for visual representation of searching results;
- technical reports of software assessment results, recommendations for use.

Fig. 2 represented software requirements tree structure.

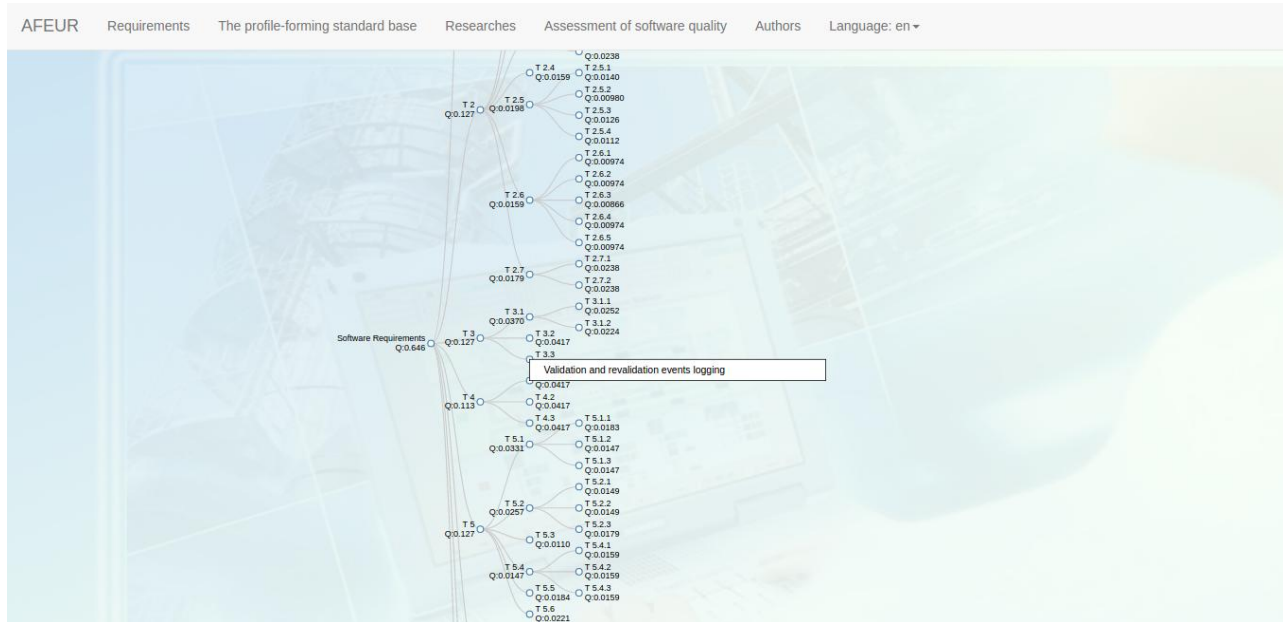


Fig. 2. Case-oriented automated system «AFEUR», software requirements tree structure

Fig. 3 represented how we can introduce the assessment results in visual form.

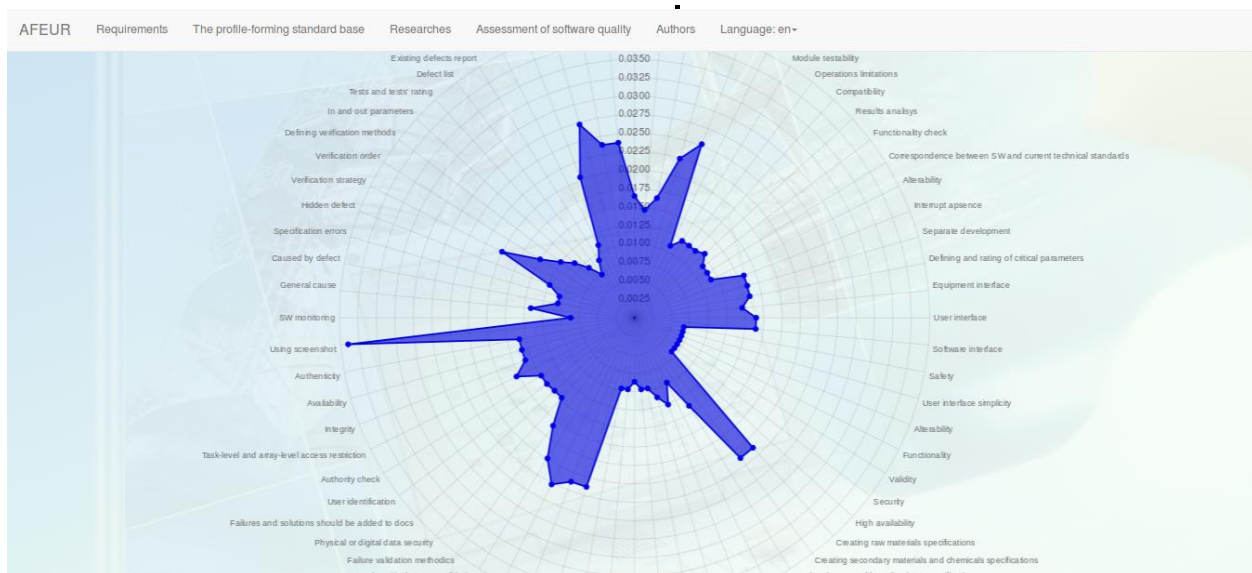


Fig. 3. «AFEUR», radial-metric diagram

Conclusions. The Case-oriented information technology for quality and safety software assessment was developed. Based on this IT developed Web-interface tool «AFEUR» for automated quantitative safety and quality software assessment in the pharmaceutical enterprise. Further researches can be directed modification and perfection of developed system.