

of pairwise comparisons the weighted coefficients of indices are formed. In the second stage the absolute values of indices are defined by experts. After translation the absolute values in the relative ones the comprehensive quality indicator is calculated.

To realize the following approach it's necessary to provide with possibility of expert estimates and indices values storage. In the common case in the process of quality estimation experts of different specialization are involved. Experts can not always be personally at the place of expertise holding (illness, business trip, accommodation in another town etc.). The estimation takes place repeatedly for different objects (e.g. graduate student, education process, resources) and at different levels (department, faculty, university). Information system should also provide the calculation of comprehensive quality indicator, which is used for taking the decisions.

After performing the modern tools review for software development and taking into account the system requirements in the given work it's offered to use the J2EE technology. For this the following reasons can be named: it's cross-platform, has open source libraries, contains large number of technologies for distributed systems development etc. For data storage the DBMS MySQL is chosen. It's an open source code DB, which is simple to use, easy to customize and control.

The developed software performs following functions: providing expert interviews, defining the weight coefficients of indices, calculating relative values and comprehensive quality indicator.

A graduate student, an education process or university in a whole can be used as the quality estimation object. As a test example the realization of methodology of graduate students' estimation will be used.

As far as new requirements constantly appear, the developed software will be researched by the maintenance criterion.

Thus the developed software would allow essentially improve the effectiveness of education quality management at the university level.

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- 1. $r(t) - t$
 - 2. $w_f -$
 - 3. $sc -$
 - 4. $t -$,
 - 5. $V -$,
 - 6. $ef(t) - t -$
- $er(t) -$,
 $t,$

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$$\begin{aligned}
 e_n(t) &= \ddot{r}(t) s_c \\
 e_f(t) &= C_c(sc) w_f r \\
 e_r(t) &= \frac{-E\dot{r}}{V}
 \end{aligned}$$

$$e_n = -e_f + e_r$$

