

Development of Comprehensive School Web Portal

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Abstract - In this paper the web-portal, which will allow conducting monitoring and management of educational process for improvement of teaching quality is given.

Keywords - Electronic magazine, an electronic diary, the schedule, electronic document circulation, management of educational process.

I. INTRODUCTION

Our time is time of changes and fast development of information technologies. Use of the newest communication technologies enables not only to carry out information and analytical functions, but also to realize more effective operative management of educational process and its maintenance. Therefore development of an school establishment portal is actual.

II. INSTRUCTION FOR AUTHORS

The basic development purpose of an school establishment Web-portal is the improvement of teaching quality. It can be achieved due to attraction to process of monitoring and decision-making both teachers, and parents and pupils. There are the following project primary goals:

The analysis the operative information by the director of studies

- about teaching results of each pupil;

- about curricula fulfilment by teachers;

Opportunity of informing parents in proper time

- about the studying schedule and educational plans;

- about the child success;

- about home tasks.

An educational institution Web-portal which is being developed focused on use by teachers, parents, pupils and extraneous persons. The portal contains electronic magazine, an electronic diary, the schedule, electronic document circulation, the block of the statistic analysis of progress, the block of automated management by educational process. For management of portal development methodology Scrum [1] is used.

Project Portfolio:

- Configuration Management
 - MSBuild (built-in .NET tool);
 - Subversion + Apache;
- Databases
 - MSSQL Express 2008R2;
- Languages
 - C# 4.0;
 - XSL (XSLT + XPath);

- Application Servers
 - IIS 7, 7.5;
- Operating Systems
 - Windows Server 2008;
- Technologies
 - .NET (ASP.NET MVC, LinqToEntities);
 - Javascript (jQuery);
 - CMS (Umbraco CMS);
 - XSLT
- Tools
 - TeamCity;
 - RedMine;
 - StyleCop;
 - FxCop;
 - Sonar(Source Monitor, Gallio, PartCover) ;
- Testing
 - Unit testing (MSTest) ;
 - Automation testing (WatiN).

For development of a portal students of the 3rd-5th courses of Dnepropetrovsk National University named after Oles Gonchar have been involved: Sinitsin A. is a system administrator, Petrihenko A. is a business - analyst, developers are Andreev V., Burlay O., Garkusha S., Zadorozhniy S., Maximov S., Solomonov A., Stratovich V., Tilik V., Kaschenko A., Severenovskaya O., Prodaschuk A. The project is carried out under supervision of experts IT company Exigen Services: Babenko N. is a project manager; Maltsev D., Skripnik S. are a technical experts; Prokopenko T. is an expert of quality, Melnik M. is a business-analyst expert. Within the framework of given methodology Scrum Bulanaya T., Zemlyanaya S., Serebryanskaya O. are Product Owners.

The developed web-portal will allow to carry out monitoring of teaching process both teachers and parents. In consequence of this teacher can give more time to educational process, parents will receive more tools for the control of children progress, the director of studies will get the opportunity to receive the operative information about progress and about the curricula fulfillment by teachers. Due to existence of this web-portal more citizens can learn about existence of "Dnipropetrovsk Regional Boarding Lyceum of Physics and Mathematics Profile" that will assist its development.

III. CONCLUSION

The effect of the project is in parameter improvement of teaching quality and, as consequence, in increase of competitiveness of "Dnipropetrovsk Regional Boarding Lyceum of Physics and Mathematics Profile" graduates during the entrance the High Educational Institutions.

REFERENCES

- [1] Книберг Х., "SCRUM и XP: заметки с передовой": Пер. сообщества Agile Ukraine. – 94 с.

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