

ABSTRACT

The thesis is presented in 84 sheets. It contains 4 appendixes and bibliography of 29 references. Ten figures and 10 table are given in the thesis.

The purpose of writing a diploma project is the development of systems for the rational use of resources a small business investment project construction business. The system created to facilitate the work of employees who work on the project, calculation and maintenance of the project as well as the calculation of the financial plan and evaluation of investments. The main goal of the system is to maximize the welfare of the owners of the enterprise in the current and future period, ensured by maximizing its market value.

As part of the analysis of existing methodologies for risk management and risk assessment methods - methods of expert assessments, analysis of the appropriateness of costs, method of analogies, a method of adjusting the discount rate, the method sensitivity analysis and critical values, method and event trees simulation. Decided to build a system developed focusing on methods for peer review, such as the methods of voting and Saaty method.

According to the results of graduate design software system developed in the programming language C#. Completed test developed system based on real projects.

The developed system can be used in a team of financial and accounting department. The main users of the system is the risk manager and the experts.

Keywords: risks, investment, methods for assessing project risk, expert methods, alternative criteria, models, decision making, management, investment project.