

## ABSTRACT

Master's thesis, 128 pp., 28 fig. 8 Table. 2 applications 28 source.

We study the processes of project management in software development. Theoretical information on existing methods and approaches in managing IT projects found their advantages and disadvantages. Developed information system project management in software development methodology on modern Kanban. The software is developed according to modern standards and the newest technology, such as Docker, Node.js, MongoDB, ExtJS and others.

**The objective of the work.** Development of information-analytical system of project management in software development.

**Research object:** management processes in IT projects.

**Research subject:** project management system software development.

**Research methods.** data mining, neural networks, object-oriented programming methodology Kanban, Agile, Docker-containers.

**Scientific novelty of the results.** During the execution of the master's thesis was created software that was successfully implemented in the company NetCracker, namely research department, which received rave reviews from both project managers and employees who used the system.

KANBAN, INFORMATION SYSTEM, NETWORK MODEL, STARTUP, THREE-LEVEL ARCHITECTURE, FRAMEWORK