

ABSTRACT

The thesis is presented in 69 sheets. It contains 3 appendixes and bibliography of 13 references. 48 figures and 1 table are given in the thesis.

The goal of the thesis is to develop the automation system for POS-material production process.

The project contains analysis of the existing software development methodologies. It is decided focusing on existing projects, to develop system that better satisfies the requirements of the customer.

According to the results of the diploma design, a software system was developed in the Python programming language using the Django framework. PostgreSQL was selected as the DBMS. The Bootstrap has been selected as one of the libraries for the client side. The nvd3.js library is used to display graphs of the report.

System is developed and tested on the basis of real project's data .

The developed system can be used inside the company. The main users of the system are client managers, designers, logistics, production managers, accountants and project managers.

Keywords: project management, report generation, control automation of the production process.