

Abstract

The diploma thesis deals with the concept of automation of business administrative processes in the context of robotic process automation (RPA) and industry 4.0 with a focus on business information systems. The theoretical part focuses on defining the basic concepts related to the topic of this thesis, such as the information society, digitization and automation.

An essential part is the analysis of current trends and possibilities of business process automation. To analyze these trends, a systematic literature review was conducted, the aim of which was to examine the current state of knowledge on the topic of industry 4.0 with a focus on current trends, future developments and other possible directions of this concept, especially in digitization and business administrative process automation.

The aim of this diploma thesis is to design a solution for automation of selected administrative processes using RPA software Integromat in conjunction with the internal corporate business information system in the company ANTEE s.r.o. The design of the automation solution is based on the analysis of the current state of processes (AS-IS) and further outlines possible ways to use Integromat for their automation (TO-BE state), while also taking into account the necessary prerequisites for proper operation of the automated solution.