

ABSTRACT

The thesis is presented in 28 pages. It contains 3 appendixes and bibliography of 12 references. 15 figures and 1 table are given in the thesis.

The goal of the thesis is to create software module for user authentication system of remote banking services.

In the thesis, existing solutions are analyzed, such as password authentication, certificate authentication, one time password authentication, access key authentication, token authentication. They are compared in terms of safety, efficiency and usability. In the thesis, password authentication encrypted using HTTPS protocol with confirmation by scanning QR-code is used to solve the task.

The software module implementing the chosen method is developed. The developed module is tested.

Keywords: authentication, authentication software module, QR-code.