

ABSTRACT

Diploma: 97 p., 32 fig., 7 tables, 2 appendices and 20 sources.

BLOCKCHAIN, SMART-CONTRACT, DECENTRALIZED SYSTEM,
TRANSACTIONS.

Aim of this work is a development of architecture and description of main principles behind decentralized aviatickets distribution system. Modern impementations of blockchains, especially Ethereum, was reviewed in this work.

Results:

- decentralized aviatickets distribution system's smart-contract was developed;
- system's user interface prototype was developed.

Novelty:

- practical application of blockchain except for finance is suggested;
- decentralized aviatickets distribution systems was developed rather than centralized.

Results of this work are recommended to be used for development of other decentralized systems relying on blockchain technology. For further research in this area it is recommended considering optimization of blockchain's throughput.