

INCREASING THE FAULT TOLERANCE OF THE APPLICATION THAT DETERMINES THE OCCUPANCY OF THE COMMUNICATION LINE

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Today, the number of mobile device users is growing every day. More and more web applications and sites are moving to mobile platforms.

However, the main task of a mobile device is to make calls. It would be convenient for users to use a special application and monitor whether a contact is talking or not.

The purpose of this paper is to review the means and methods to improve the fault tolerance of the software, which allows to determine the occupancy of the communication line. Let us first separate two concepts:

- Fault tolerance is the ability of a system, if one or more servers fail, to continue operating within the required parameters.

- Fault tolerant systems are those that have full redundancy (the so-called second shoulder) and are able to operate without significant drawdown in the event of a complete failure of one of the data centers.

In this paper, we will talk about a fault-tolerant application. The main problem that may arise is a bad Internet connection or no connection at all. In the first case it is necessary to create your own overlay network to buffer and control the data. When transmitting through your own overlay network, you may lose data transfer speed, but in this case, you can guarantee lossless data exchange.

Also, to reduce the load on the network and, as a consequence, to increase fault tolerance, it is necessary to send the smallest possible amount of data (send only on request).

For future studies it is proposed to investigate the localization of this application (whether it will not contradict the laws of this or that country, violate human rights and freedoms), as well as the possibility of creating this application without using the Internet or in conditions of low-bandwidth network channel.

References

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