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NETWORK TEXT EDITOR

The aim is to develop a program, called the network text editor, which is accessible through the Internet implements a joint simultaneous work of several users on a single text document.

The program of the network text editor was conducted in accordance with the concept of interaction between the individual elements of the editor, which is as follows.

The work program involved the participation - administrator of editor and Editor users. The program can work without the involvement of the administrator.

The functions of the administrator include: change the settings editor; termination work of the user.

Users Editor are all professionals who are allowed to work with the text document .To do this in the registration application into work with the editor using a password.

Users in accordance with their status at any time divided into three categories: users who are not participating in the document; active user - the one who has the right to read the document and make changes to the document; passive users - those who can only read the edited document; the maximum number of active users (Nmax).

The editor is built on technology «client-server». The server part contains a table parameters editor and table of users.

In the table parameters identifies the such characteristics:

1.   The value of the interim period between the transfer of changes in the document (Tch), which is selected based on the network load and ease of reference - with a decrease Tch expanding the network load, but users quickly see the changes in the edited document.

2.   The maximum continuous time work of the user on a document (Tuser), which limit the monopoly to use paper one user.

Table contains the user state for each user the editor of its current status, which is defined as follows: the user is not involved in the work of the editor: -1; passive user: 0; active Users: 1.

The functions of the client program:

1.   For the active user: to edit the document; over time intervals larger Tch transmit the current state of the document to the server; end of the conversation with the editor with an indication (or without) the next active user; to exchange messages with all participants work with the editor and administrator; terminate the conversation after expiry time Tex.

2.   For a passive user: to conclude the current status of the document with the abolished color changes; to share Messages with all parties to work with the editor and administrator.

Functions Server: to accept applications from people to work with the editor (if the number of participants, taking into account the applicant does not exceed Nmax, then change its status in the table on the following condition:

- If at this moment there is no active user - the status of active otherwise - on the status of passive

- to accept applications from participants at the termination of work with the editor, in this case, the claimed set status -1;

- to accept applications from an active participant in ending the conversation with the editor, while becoming an active participant, as specified in the application, or another party otherwise ;

- to stop the active user session on the proposal of other users and the permission of the Administrator;

- accept every Tch changing in the document from active users and send those changes, for instance, canceled all other color passive user;

- send a message from one party to another;

- send in the change in the status of the user its current status.

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