Management of users and telephone lines

Documentation and user guide

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Team: FPSquad

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Content

1 Introduction

In the first part of document is described application from the programmer perspective. There are architecture of program with components location and description of functionality. Then are described settings before the first run. In the end of document you can find 'user guide' describing individual functions.

2 Application settings

Before the first run is necessary to set up local settings in 'config.php' this is in main folder of application. It includes settings for connect to Kerio Operator and local database.

2.1 Kerio Operator

$admin_login – admin login, existing user in Kerio Operator with rights to read and write

$admin_password – password for this user

$server_ip – IP address of server where is running Kerio Operator

$admin_users – list of authorized users (chapter 3. Distribution of access rights)

2.2 Database MySQL

The predefined tables can be imported from file 'db.sql' in folder 'database' or you can set manually by database description (chapter 4.3.).

$mysql_server_ip – IP address of MySQL server

$mysql_user_login – login to database

$mysql_user_password – password to database

$mysql_database – name of database

2.3 Sample configuration

```php
/**
 * Local settings
 */
function __construct() {
    $this->admin_login = 'admin';
    $this->admin_password = 'admin';
    $this->server_ip = '192.168.225.101';

    $this->admin_users = array('admin', 'merat', 'ahemsky');

    $this->mysql_server_ip = '127.0.0.1';
    $this->mysql_user_login = 'root';
    $this->mysql_user_password = '';
    $this->mysql_database = 'kerio_sprava_uzivatelu_a_linek';
}
```

3 Distribution of access rights

Access to application is possible without login and then as logged user with legalized or authorized rights.

Possibilities of each user

- **Not-logged**
  - Generating telephone list with export choice
  - View free lines

- **Legalized**
  - Same possibilities as not-logged user
  - Line assignment to logged user
  - Fast assignment over QuickAdd to logged user

- **Authorized**
  - Same possibilities as not-logged user
  - Line assignment to any user
  - Fast assignment over QuickAdd to logged user

4   System architecture

4.1   Main scheme
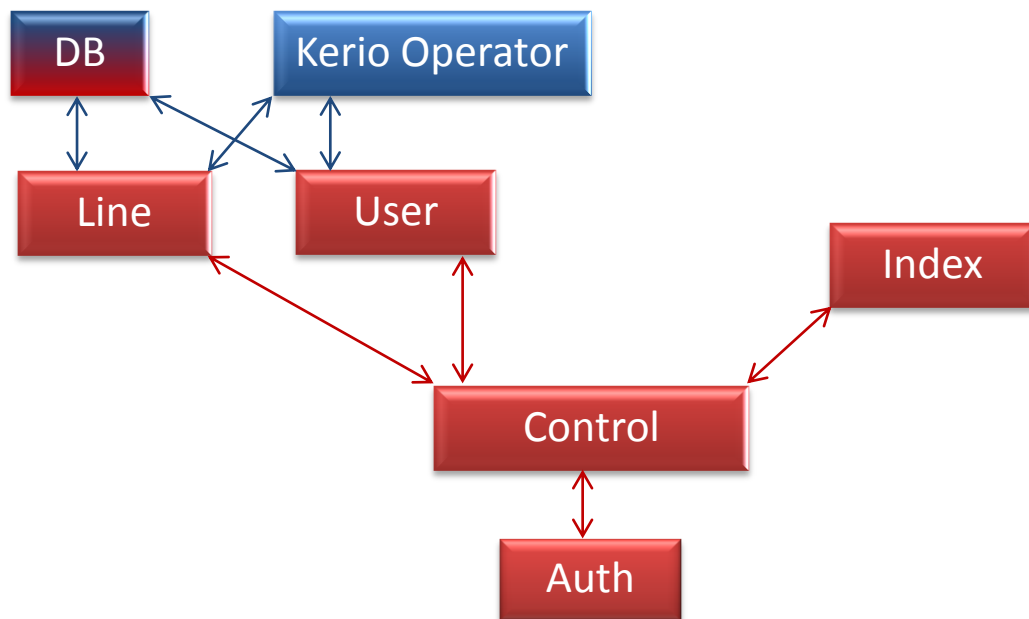
4.2   Description of class

The main controle class is 'Control' which processing requests from user. Data is provided by 'Line' and 'User'. Then are processed and view to user over 'index'. Some parts of application are not accessible to not-logged users (chapter 3.Distribution of access rights). The 'Auth' class is for authentication users. The main data source is Kerio Operator and for faster communication is local database.

The files which aren't in main scheme: 'connect.php' for connect to local database and 'config.php' to configuration settings of application.

4.2.1 Control

As has been mentioned it is control class processing requests from user. This class uses the package mPDF to export telephone lines in PDF format.

List of method:

- *getTelephoneList* – generating telephone lines from local database
- *getFreeTelephoneLinesList* – view free lines
- *refreshFreeLines* – update free lines in local database from Kerio Operator
- *refreshTelephoneList* – update telephone list in local database from Kerio Operator
- *setLine* – assignment free line to user
- *quickAdd* – fast assignment to logged user
- *setData* – set data for line assignment
- *generateTelephoneListPDF* – export telephone lines to PDF format
- *loginMyphone* – user login
- *logout* – user logout

4.2.2 User

Data class managed users and information about them. Load data from Kerio Operator and save it in local database or returns to method in Control. For example free line assignment to user.

List of method:

- *getUserByIdDB* – load information about user from local database by user ID
- *getUsersDetailDB* – load information about all users from local database
- *getUsersDetail* – load information about all users from Kerio Operator
- *getUserIdByUsername* – find user ID by username
- *setGenerateTime* – set generation time of telephone list or free lines
- *setUsersDetailDB* – set new information about user to local database
- *checkEntryDB* – check user in local database
- *login* - login to Kerio Operator

4.2.3 Line

Data class managed telephone lines and information about them. Load data from Kerio Operator and save it in local database. The request to Kerio Operator is sent on line assignment.

List of method:

- *getTelephoneLines* – load telephone lines from Kerio Operator
- *getGenerateTime* – load generation time of free lines or telephone lines
- *setGenerateTime* – set generation time of free lines or telephone lines
- *getTelephoneLinesDB* – load telephone lines from local database
- *getTelephoneLineByIdDB* – load telephone line by ID
- *checkEntryDB* – check existing line in local database
- *deleteLinesDB* – delete all information from Line
- *setTelephoneLinesDB* – save information about lines to local database
- *setLineToUser* – line assignment to user

4.2.4 Auth

It's authentication class of users. To enter the section where is necessary permissions, this class authenticate user by settings in 'config.php'.

List of method:

- *selectUser* – inclusion user to legalized or authorized
- *authUser* – authentication of user with legalized rights
- *authAdmin* – authentication of user with authorized rights

4.2.5 Index

Index is web-template. Content of web page is loading by user activity which manages Control. From the functional code includes sending request and view answer.

4.3 Database
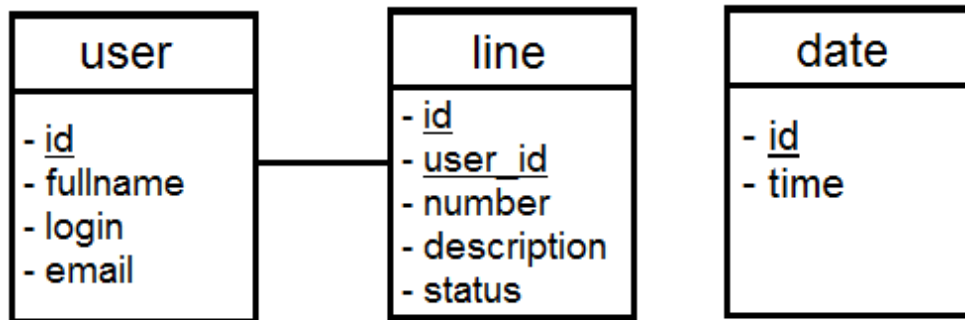
Local database to saving information from Kerio Operator. Loading telephone lines list and free lines list is from this database. Structure is stored in sql format in database folder.

- **User –** information about user
- **Line –** information about line, status free - „0" or occupied - „1"
- **Date –** date of last refresh telephone list – „1" and free lines list – „2"

5 User guide

5.1 Generating telephone lines list

Display the telephone book on the date specified in the list. For re-generate telephone book, click on 'Refresh'.

Export to format PDF is generating from the currently displayed list. The possibilities are PDF export and simple HTML page to print.

5.2 View free telephone lines

View free lines list on the date specified in the list. For re-generate free lines list, click on 'Refresh'.

5.3 Free line assignment

Line assignment can be made to any user or only to logged user (3.Distributions of access rights).

To line assignment, you must select user and line. Description of line isn't required but it should be state. Confirm with 'Assign'. If a user has an email in database, it will be sent confirmation email with details about assigned line.

5.4 Fast assignment - QuickAdd

This function is for logged users. These users can quickly assign the first free line. The line is selected automatically. You can insert description of line and confirm with 'Asign'.