

Management of users and telephone lines

Documentation and user guide

28. 5. 2012

Team: FPSquad

Members:

Roman Polák

polish@students.zcu.cz

Jan Šedivý

camisedivy@gmail.com

David Fiala

fidla.8@gmail.com

Karel Fořt

fort3@students.zcu.cz

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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

```
/**
 * 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

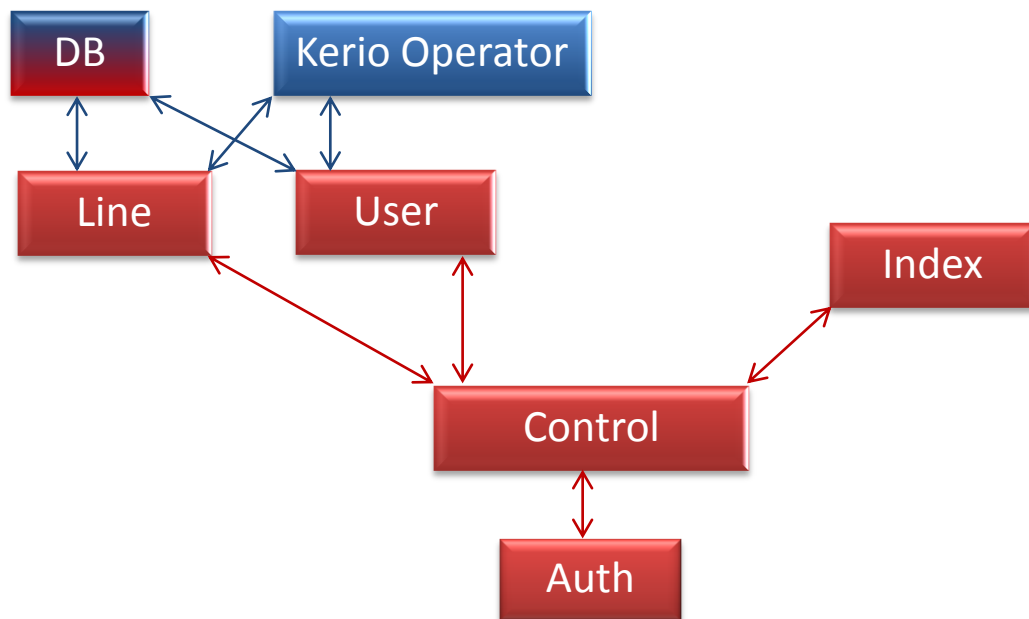
Access to application is possible without login and then as logged user with legalized or authorized rights.

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 control class is 'Control' which processes 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'.

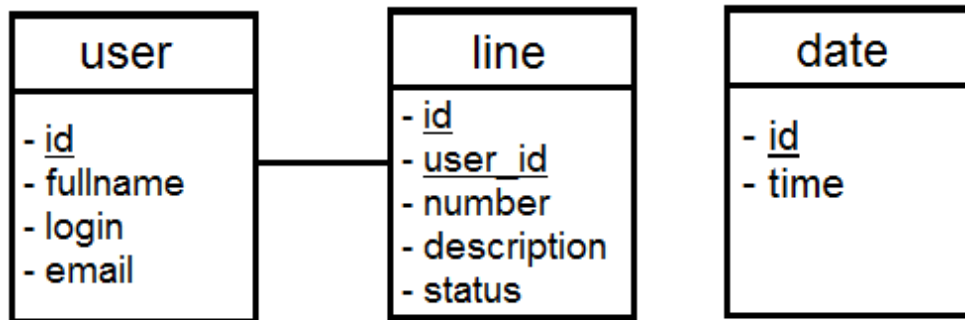
List of method:

- *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.

 **Users and lines management**



Menu


- Telephone book
- Free lines
- Line assignment
- QuickAdd

Login:

Logged as: merat
[Log Out](#)

Telephone book

 Refresh
Export list:  TelephoneBook.pdf


Last update: 28. 05. 2012 12:23
 Print

User name	User telephone lines
Aleš Hemský	11, 19
David Krejčí	23
Jakub Štěpánek	25
Jakub Kovář	21
Jakub Nakládal	16
Martin Erat	10, 13
Michael Frolik	15
Miroslav Blaták	22
Ondřej Němec	20
Petr Tenkrát	24
Tomáš Plekanec	14, 12

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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'.

**KERIO**

Users and lines management


Menu

- Telephone book
- Free lines

Login:

Login:

Password:

 Refresh

Last update: 24. 05. 2012 15:18


Line number	Description
10	linka 10
11	
12	linka 12
13	erat
14	linka 14
15	frolik linka
17	
18	linka 18

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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.

 **Users and lines management**

Menu

- Telephone book
- Free lines
- Line assignment
- QuickAdd

Login:
Logged as: admin
[Log Out](#)

Line assignment

Select user and line:

Aleš Hemský, ahemsky
David Krejčí, dkrejci
Jakub Kovář, jkovar
Jakub Nakládal, jnakladal
Jakub Stěpánek, jstepanek
Jiří Novotný, jnovotny
Lukáš Kašpar, lkaspar
Lukáš Krajčec, lkrajceek
Martin Erat, merat
Michael Frolik, mfrolik
Milan Michálek, mmichalek
Miroslav Blaták, mblatak
Ondřej Němec, onemec
Petr Čáslava, pčaslava
Petr Koukal, pkoukal
Petr Nedvěd, pnedved
Petr Průcha, pprucha
Petr Tenkrát, ptenkrat
Tomáš Mojžíš, tmojzis
Tomáš Plekanec, tplekanec

17. line 17
18. linka 18


Line description: eratova linka

Assign

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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 'Assign'.

 **Users and lines management**

Menu

- Telephone book
- Free lines
- Line assignment
- QuickAdd

Login:
Logged as: merat
[Log Out](#)

Fast assignment of free line
Line assignment to the current user: merat
Line number: 17
Line description

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