

pharmacy duty roster
Documentation

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Chapter 1

Introduction

Pharmacy Duty Roster (PDR) is a web application that allows to operate a duty roster for pharmacies. PDR started in 2015 as an alternative to a really simple excel sheet without formulas. PDR aims to be user-friendly but at the same time cover all necessary features. PDR continuously strives to improve. It is open to your requests and wishes. I hope it will fulfil your expectations.

1.1 Getting PDR

The latest release of PDR is available on [GitHub](#). GitHub provides the source code as *.zip file or *.tar.gz ball. Extract the files into a folder.

Make sure to unpack PDR to a directory, that your webserver has access to. PHP and the webserver must have read access to all the files and folders. It also needs write access to the subdirectories upload, tmp and config. You might want to change the owner of the directory to the webserver's user with e.g.:

You can also clone the repository with git:

```
git clone https://github.com/MaMaKow/dienstplan-apotheke.git
```

See the Administrator manual for details!

1.2 License

PDR is open source software under the AGPL license.

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You should have received a copy of the GNU Affero General Public License along with this program. If not, see <<https://www.gnu.org/licenses/>>.

Please see the [license file](#) for details!

1.3 Reporting bugs

The issue tracker is currently located at GitHub. GitHub requires an account in order to report bugs or feature requests. If you do not want to create one, you might send a mail to pdr-issues@martin-mandelkow.de

1.4 How to contribute

Pull requests are desired. If you made changes to PDR and want to contribute them to the public, you are welcome to open a pull-request on GitHub or send your changes in any other way.

Chapter 2

User manual

2.1 The web interface

You can connect to your PDR instance using any web browser. Just navigate to your server and enter your username and password.

2.1.1 Login

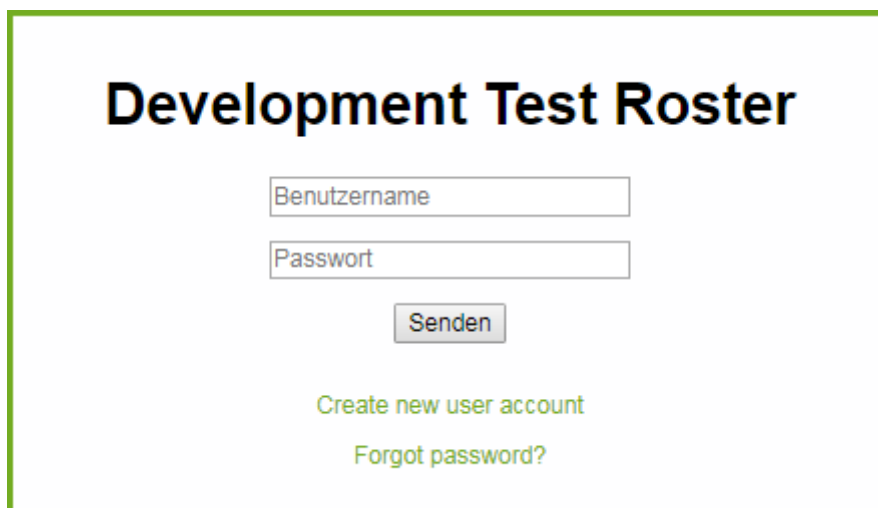
The image shows a web interface for 'Development Test Roster'. It features a title 'Development Test Roster' in bold black text. Below the title are two input fields: 'Benutzername' (Username) and 'Passwort' (Password). Under the password field is a 'Senden' (Send) button. At the bottom of the form area, there are two green links: 'Create new user account' and 'Forgot password?'.

Figure 2.1: Login page

The login page shows the name of the application. You are prompted to enter your username and password. If you do not have an account yet, you can create one. Just follow the link. If you have an account, but forgot about your password, or want to change it, you can click on "Forgot password?".

2.1.2 Lost password

The lost password page shows the name of the application. You are prompted to enter either your username, id or your email-address at your option. After you submit the form, an email is sent to your stored email address. In that email you will find a link. That link will lead you to the password change page.

Development Test Roster

Please enter your email address, user name or user id!

Figure 2.2: Lost password page

Lost password recovery

The lost password recovery page shows the name of the application and your user name. You are prompted to enter a new password twice.






2.1.3 Create new user account

New users can only be created for existing employees. New employees are created by an administrator. Choose a user name, enter your employee id and your email. And enter a password twice.

The account will be inactive until an administrator activates it. The administrator is informed via email regarding the registration.

2.1.4 Navigation

By default, the PDR web interface opens a menu containing 5 tiles. You can navigate to:

- Roster week table view 
- Roster daily view 
- Roster employee view 
- Overtime 
- Absence 

The navigation bar

In the top there is a navigation bar containing hyperlinks to nearly all the pages of PDR. Hover the mouse over an entry to open the submenus (Figure 2.5).

Roster week table view

The roster week table view shows the roster of a chosen week an a chosen branch (Figure 2.6). If employees of the branch are working in an other branch, then those are shown below. The table foot contains the information about absent employees and their reason of absence.



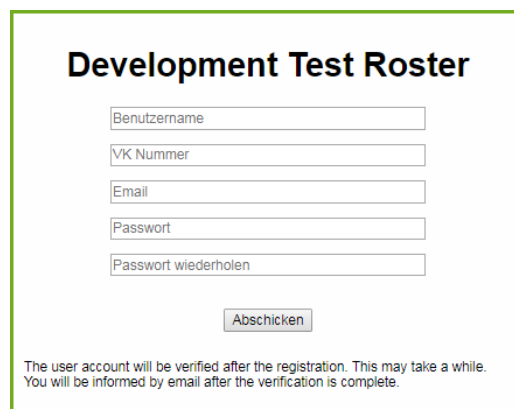
Development Test Roster

Mandelkow

Passwort

Passwort wiederholen

Figure 2.3: Lost password recovery page



Development Test Roster

Benutzername

VK Nummer

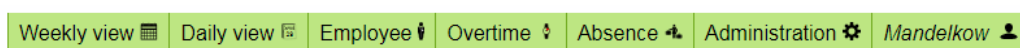
Email

Passwort

Passwort wiederholen

The user account will be verified after the registration. This may take a while.
You will be informed by email after the verification is complete.

Figure 2.4: Register new user page



Weekly view	Daily view	Employee	Overtime	Absence	Administration	Mandelkow
-------------	------------	----------	----------	---------	----------------	-----------

Figure 2.5: Navigation bar

calendar week 32

Small Branch

<< 1 week backward >> 1 week forward

06.08.2018 Anzeigen

Monday 06.08.	Tuesday 07.08.	Wednesday 08.08.	Thursday 09.08.	Friday 10.08.	Saturday 11.08.	Sunday 12.08.
PI_17 / 6 08:00 - 14:00 PTA_10 / 7 08:00 - 15:30 break: 11:30 - 12:00 Apotheker_9 / 4,5 14:00 - 18:30	Apotheker_9 / 2 08:00 - 10:00 PI_17 / 8 09:30 - 18:00 break: 11:30 - 12:00 PTA_10 / 7,5 10:00 - 18:30 break: 12:00 - 13:00	PI_17 / 6 08:00 - 14:00 PTA_10 / 7,5 08:00 - 16:00 break: 11:30 - 12:00 Apotheker_9 / 4 14:00 - 18:00 PKA_11 / 2 16:00 - 18:00	Apotheker_9 / 4 08:00 - 12:00 PTA_10 / 8,5 09:00 - 18:00 break: 11:30 - 12:00 PI_17 / 6 12:00 - 18:30 break: 13:00 - 13:30	PI_17 / 6 08:00 - 14:00 PTA_10 / 6,5 08:00 - 15:00 break: 11:30 - 12:00 Apotheker_9 / 4,5 14:00 - 18:30		

Small Branch in Big Branch

	PTA_10 / 1,5 18:30 - 20:00		PI_17 / 1,5 18:30 - 20:00			
Absentees	Absentees	Absentees	Absentees	Absentees	Absentees	Absentees
PTA_9 (maternity leave)	PTA_9 (maternity leave)	PTA_9 (maternity leave)	PTA_9 (maternity leave)	PTA_9 (maternity leave)	PTA_9 (maternity leave)	PTA_9 (maternity leave)
PTA_12 (vacation)	PTA_12 (vacation)	PTA_12 (vacation)	PTA_12 (vacation)	PTA_12 (vacation)	PTA_12 (vacation)	PTA_12 (vacation)
Apotheker_14 (vacation)	Apotheker_14 (vacation)	Apotheker_14 (vacation)	Apotheker_14 (vacation)	Apotheker_14 (vacation)	Apotheker_14 (vacation)	Apotheker_14 (vacation)
PKA_18 (vacation)	PKA_18 (vacation)	PKA_18 (vacation)	PKA_18 (vacation)	PKA_18 (vacation)	PKA_18 (vacation)	PKA_18 (vacation)
PKA_19 (vacation)	PKA_19 (vacation)	PKA_19 (vacation)	PKA_19 (vacation)	PKA_19 (vacation)	PKA_19 (vacation)	PKA_19 (vacation)

Figure 2.6: Roster week table view, excerpt without task rotation and weekly working hours

The date can be chosen by direct input. It can also be shifted by one week backwards or forwards by pressing Ctrl + Shift + → or Ctrl + Shift + ← respectively.

Roster daily view

Roster employee view

Overtime

Absence

There are four views to the absence data.

- Employee view readonly
- Employee view edit
- Monthly table
- Year overview

In the *Employee view readonly* there is a select element to choose the employee to view. There is a button to switch to the edit view. And there is a table containing the absence data. The columns are start and end of the absence, reason of absence and number of days. There is a distinct list of possible reasons (vacation, remaining holiday, sickness, sickness of child, unpaid leave of absence, paid leave of absence, parental leave and maternity leave). The number of days of absence is calculated for a 5 day week. Absences on Saturdays and Sundays are registered but not counted. The same applies for holidays.

Chapter 3

Administrator manual

3.1 Installation

3.2 Upgrading

3.3 Configuration

3.4 Maintenance

3.5 Issues and Troubleshooting

Chapter 4

Developer manual

4.1 Core development

All PHP scripts have a common file `default.php`, which handles the default settings. It is placed at `./`, which is the `PDR_FILE_SYSTEM_APPLICATION_PATH`. See the file below:

```
1 <?php
2
3 /*
4  * Copyright (C) 2017 Mandelkow
5  *
6  * This program is free software: you can redistribute it and/or modify
7  * it under the terms of the GNU Affero General Public License as published by
8  * the Free Software Foundation, either version 3 of the License, or
9  * (at your option) any later version.
10 *
11 * This program is distributed in the hope that it will be useful,
12 * but WITHOUT ANY WARRANTY; without even the implied warranty of
13 * MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
14 * GNU Affero General Public License for more details.
15 *
16 * You should have received a copy of the GNU Affero General Public License
17 * along with this program. If not, see <http://www.gnu.org/licenses/>.
18 */
19
20 /**
21  * @var PDR_FILE_SYSTEM_APPLICATION_PATH The full path of the application root
22  * as determined by the position of the default.php
23  */
24 define('PDR_FILE_SYSTEM_APPLICATION_PATH', __DIR__ . '/');
25 /**
26  * @var PDR_HTTP_SERVER_APPLICATION_PATH The relative path of the application
27  * root on the web server.
28  */
29 $folder_tree_depth_in_chars = strlen(substr(getcwd(), strlen(__DIR__)));
30 $root_folder = substr(dirname($_SERVER["SCRIPT_NAME"]), 0, strlen(dirname(
31     $_SERVER["SCRIPT_NAME"]))) - $folder_tree_depth_in_chars) . "/";
32 define('PDR_HTTP_SERVER_APPLICATION_PATH', $root_folder);
33 //TODO: This does not work, if the location is a symbolic link.
34 /**
35  * @var PDR_ONE_DAY_IN_SECONDS The amount of seconds in one day.
36  */
37 define('PDR_ONE_DAY_IN_SECONDS', 24 * 60 * 60);
38
39 /*
40  * Define an autoloader:
```

```

38 */
39 spl_autoload_register(function ($class_name) {
40     include_once PDR_FILE_SYSTEM_APPLICATION_PATH . 'src/php/classes/class.' .
        $class_name . '.php';
41 });
42
43
44 if (!file_exists(PDR_FILE_SYSTEM_APPLICATION_PATH . '/config/config.php')) {
45     header("Location: " . PDR_HTTP_SERVER_APPLICATION_PATH . "src/php/pages/
install_page_intro.php");
46     die("The application does not seem to be installed. Please see the <a href='
" . PDR_HTTP_SERVER_APPLICATION_PATH . "src/php/pages/install_page_intro.php
'>installation page</a>!");
47 } else {
48     /*
49     * Load configuration parameters from the configuration file:
50     */
51     require_once PDR_FILE_SYSTEM_APPLICATION_PATH . "config/config.php";
52     /*
53     * Complement the configuration array with the default values for unset
parameters:
54     */
55     foreach (configuration::$List_of_configuration_parameters as $key => $value)
    {
56         if (!isset($config[$key])) {
57             $config[$key] = $value;
58         }
59     }
60 }
61 /*
62 * Setup if errors should be reported to the user, if to log them, and where:
63 */
64 ini_set('display_errors', $config['display_errors']); //Display errors to the
end user?
65 ini_set('log_errors', $config['log_errors']); //Log errors to file?
66 ini_set('error_log', $config['error_log']); //Which file should errors be logged
to?
67 error_reporting($config['error_reporting']); //Which errors should be reported?
68
69 /*
70 * We want some functions to be accessible in all scripts.
71 */
72 require_once PDR_FILE_SYSTEM_APPLICATION_PATH . "funktionen.php";
73
74 /*
75 * Setup the presentation of time values:
76 //setlocale(LC_ALL, 'de_DE'); // Leider versteht die Datenbank dann nicht mehr
, was die Kommata sollen.
77 */
78 setlocale(LC_TIME, $config['LC_TIME']);
79 /*
80 * Setup default timezone for date()
81 */
82 date_default_timezone_set($config['timezone']);
83 /*
84 * Setup the encoding for multibyte functions:
85 * This is necessary for the usage of UTF-8 characters in functions like
mb_substr()
86 */
87 mb_internal_encoding($config['mb_internal_encoding']);

```

```

88 require_once PDR_FILE_SYSTEM_APPLICATION_PATH . 'src/php/localization.php';
89
90
91 /*
92  * session management
93  */
94 $session = new sessions;
95
96 $List_of_branch_objects = branch::read_branches_from_database();
97 /*
98  * Guess the navigator (=browser) language from HTTP_ACCEPT_LANGUAGE:
99  * This is used in the head.php
100 */
101 $navigator_languages = preg_split('/[;,]/', filter_input(INPUT_SERVER, '
    HTTP_ACCEPT_LANGUAGE', FILTER_SANITIZE_STRING));
102 $navigator_language = $navigator_languages[0]; //ignore the other options

```

../default.php

4.1.1 Directory structure

- **config/** Contains the configuration file config.php
- **css/** *obsolete*, use **src/css/** instead
- **docs/** This documentation and tools to build it
- **img/** Images used by the program
- **js/** *obsolete*, use **src/js/** instead
- **locale/** translation files for gettext, currently only german (de_DE)
- **src/** Most of the actual source code
 - **src/css** Style Sheets
 - **src/js** JavaScript
 - **src/php/** PHP: Hypertext Preprocessor
 - **src/php/classes/** Contains all the class files class.class_name.php
 - **src/php/fragments/** parts of bigger pages, may be included via php require/include or loaded with JavaScript
 - **src/php/pages/** This is the place for the single views, which the human user will use to look at the roster etc.
 - **src/sql/** SQL Database Tables and Triggers
- **tests/** Tests to find errors in the source code; This folder is listed in .gitignore. Only some files are part of the visible source.
- **tmp/** A directy for temporary files. There is no automatic cleanup yet.
- **upload/** The destination for uploaded content. Currently only specific *.PEP files produced by Awinta ASYS Smart are understood. Those files contain information about the amount of customers that have been served in the past.

4.1.2 Coding standards

This project aims to follow some coding style guide.

- Please avoid StudlyCaps and camelCase.
- Class constants MUST be declared in all upper case with underscore separators.
- Property names MUST be written in under_score.
- Plain variables and objects are written in all lowercase.
- Array names start with a single Uppercase letter followed by lowercase characters.
- Method names MUST be written in under_score.
- Code MUST use 4 spaces for indenting, not tabs.
- Opening braces for classes and functions MUST go on the same line, and closing braces MUST go on the next line after the body.
- Opening braces for control structures SHOULD go on the same line, and closing braces MUST go on the next line after the body.

4.2 Documentation

This documentation about a program, app or script is a stub. You can help this project by expanding it.

4.3 Testing

4.4 Bug tracker

4.5 Translation

4.5.1 Internationalization

Different countries have different laws regarding pharmacies and employment. They also have different holidays.