

PHPRUNNER AS CMS BACKEND AND HEADLESS CMS

With PHPRunner 10.4 it is easy to build a CMS that can be both, a CMS backend/frontend in one and a CMS backend for a „headless“ CMS. You can either publish your pages directly or just open a REST API backend for your HTML front.

These are the necessary steps:

DEFINING THE DATABASE IN MYSQL

Define a table CMS with

	#	Name	Typ	Kollation	Attribute	Null	Standard	Kommentare	Extra
<input type="checkbox"/>	1	ID 	int(11)			Nein	kein(e)		AUTO_INCREMENT
<input type="checkbox"/>	2	Titel 	varchar(200)	utf8_general_ci		Ja	NULL		
<input type="checkbox"/>	3	Seite 	varchar(100)	utf8_general_ci		Ja	NULL		
<input type="checkbox"/>	4	Text	mediumtext	utf8_general_ci		Ja			
<input type="checkbox"/>	5	Datum 	date			Ja	NULL		
<input type="checkbox"/>	6	Sortierung 	varchar(10)	utf8_general_ci		Ja	NULL		
<input type="checkbox"/>	7	Unterseite 	varchar(50)	utf8_general_ci		Ja	NULL		
<input type="checkbox"/>	8	Bearbeitung	date			Ja	NULL		
<input type="checkbox"/>	9	Autor	varchar(50)	utf8_general_ci		Ja	NULL		

Titel = title

Seite = page

Text = the html for a block, page or column – what ever you prefer

Datum = date

Sortierung = sort number

Unterseite = subpage (if necessary for larger CMS)

Bearbeitung = last edited

Autor = author

Then define a table media for all images, SVGs, PDFs etc.

	#	Name	Typ	Kollation	Attribute	Null	Standard	Kommentare	Extra
	1	ID 	int(11)			Nein	kein(e)		AUTO_INCREMENT
	2	Titel 	varchar(100)	utf8_general_ci		Ja	NULL		
	3	Art 	varchar(20)	utf8_general_ci		Ja	NULL		
	4	Datei	varchar(300)	utf8_general_ci		Ja	NULL		

Titel=title

Art=type (PDF, SVG etc.)

Datei=uploaded file

Build a backend site from this with dynamic security and switch the REST API generation on – publish. Your backend is ready to take content.

THE CONTENT

In your PHPrunner based backend you can now add and edit your content, text or media. For the text blocks you can choose whether you want to save plain text or just easy formatting like bold and italic or save fully HTML formatted blocks.

The screenshot shows the CMS Content page with a 404 error. The left sidebar has sections for Seite (404), Adressen, AGB, Angebote, Aufgaben, and Technik. The main area shows a table with one row for '404'. The right side displays the error message: "Fehler 404" and "Seite nicht gefunden". It includes a link to "Zur Startseite ..." and a decorative blue circle icon.

Media table could look like this:

The screenshot shows the CMS Media page with a grid of media items. The left sidebar lists categories like Banner (46), Fotos (1), Icon (87), Logos (5), Partner Logos (7), Programm Icon (29), QRCode (4), Screenshots (113), SVG (44), and Teaser (4). The main grid contains eight items, each with a preview image, title, and download link.

Category	Title	Image Preview	Action
Ausstellungsstücke	Banner		ausstellungsstuecke.jpg Download ...
Banner Adressen	Banner		banneradressen.jpg Download ...
Banner Aufgaben	Banner		banneraufgaben.jpg Download ...
Banner Auftrag	Banner		bannerauftrag.jpg Download ...
Banner Auto & Reise	Banner	<td>bannerbuchf.png Download ...</td>	bannerbuchf.png Download ...
Banner Fahrtenbuch	Banner	<td>bannerhv.jpg Download ...</td>	bannerhv.jpg Download ...

Further ideas: Have a table with predefined blocks from which you choose, for example header, three column, text and picture and so forth.

The screenshot shows the INtex Publishing CMS dashboard. At the top, there's a navigation bar with links like 'Startseite', 'Produkte', 'Service', 'Kontakt', 'Shop', 'Einstellungen', 'Auswertung', and 'Administrator'. Below the navigation is a search bar and a toolbar with icons for 'Neu' (New), 'Löschen' (Delete), and 'Ausgewählte Datensätze aktualisieren' (Update selected data sets). A sidebar on the left lists 'Seite' and 'Vorlagen Spalten'. The main area displays a grid of items categorized by 'Titel' (Title) and 'Unterseite' (Subpage). The first item is a 'Tabs' template titled 'Home' with placeholder text about Lorem ipsum dolor sit amet. The second item is an 'Akkordeon' (Accordion) template with two sections: 'Collapsible Group Item #1' and 'Collapsible Group Item #2', both containing similar placeholder text.

If you want to use the same text in several circumstances it is good to define some variables like

#product#

This you can replace with the actual product name dynamically.

BUILDING THE FRONTEND IN AN HEADLESS CMS

For the front end you can choose whatever editor you like and choose every framework you prefer (Bootstrap, AMP) etc. or just plain HTML. This is especially helpful, if you have x domains and want to serve different content or only slightly different content on all of these webspaces. In our case we have a company site with all content and a bunch of sites with their own content for every product.

With Postman you can test the API first.

The screenshot shows a Postman request configuration. The method is set to 'GET' and the URL is 'https://www.intex-publishing.de/cms/api/v1.php?table=CMS&action=list'. The 'Authorization' tab is selected, showing 'Basic Auth' as the type. A note says: 'The authorization header will be automatically generated when you send the request. [Learn more about authorization](#)'. To the right, there are fields for 'Username' (admin) and 'Password' (*****). A 'Show Password' checkbox is also present. Other tabs at the top include 'Params', 'Headers (10)', 'Body', 'Pre-request Script', 'Tests', and 'Settings'.

Via the button „code“ in Postman you get the PHP Curl Code you need to get the data from the CMS backend.

Generated code for PHP - pecl_http

```

1  <?php
2  $client = new http\Client;
3  $request = new http\Client\Request;
4  $request->setRequestUrl('https://www.intex-publishing.de/cms/api/v1.php?action=list&table=CMS');
5  $request->setRequestMethod('GET');
6  $body = new http\Message\Body;
7  $body->addForm(array(
8    | 'Seite' => 'Hausverwaltung'
9  ), array(
10
11  ));
12  $request->setBody($body);
13  $request->setOptions(array());
14  $request->setHeaders(array(
15    | 'Authorization' => 'Basic ' . base64_encode('INTEXUSER:'.INTEXPASS),
16    | 'Cookie' => 'INTEXSESSION=' . session_id(),
17  ));
18  $client->enqueue($request)->send();
19  $response = $client->getResponse();
20  echo $response->getBody();
21

```

Now you can start coding a index.php file with ressources from your backend. A basic bootstrap file could look like this:

```

<!DOCTYPE html>
<html lang="de">
  <head>
    <!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

    <!-- Bootstrap CSS -->
    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css" integrity="sha384-BVYiiSIFeK1dGmJRAkycuHAHRg32OmUcww7on3RYdg4Va+PmSTsz/K68vbdEjh4u" crossorigin="anonymous">

    <!-- INtex CSS -->
    <link REL="stylesheet" href="style.css" type="text/css">

    <link REL="stylesheet" href="custom.css" type="text/css">

    <link href="https://www.intex-publishing.de/cms/cookiealert.css" rel="stylesheet" />

    <link href="https://www.intex-publishing.de/cms/favicon.ico" rel="shortcut icon" type="image/x-icon" />
    <link href="https://www.intex-publishing.de/cms/favicon.ico" rel="icon" type="image/x-icon" />
    <title>INtex Hausverwaltung Desktop - Hausverwaltungssoftware für MacOS und Windows</title>
  </head>
  <body class=" function-list" >
```

```

<!--CONTENT GOES HERE-->
<!--Navigation-->
<div class="r-topbar-page">
    <div data-menu-width="full"
        data-fixed
        class="r-topheader"
        data-resize-name="topbar"
        data-body-align="center">

<nav class="navbar navbar-default">
    <div class="container-fluid">
        <!-- Brand and toggle get grouped for better mobile display -->
        <div class="navbar-header">
            <button type="button" class="navbar-toggle collapsed" data-
                toggle="collapse" data-target="#bs-example-navbar-collapse-1" aria-
                expanded="false">
                <span class="sr-only">Toggle navigation</span>
                <span class="icon-bar"></span>
                <span class="icon-bar"></span>
                <span class="icon-bar"></span>
            </button>
            <a class="navbar-brand" href="index.php"><i style="color:#2780E3;">
                <span class="glyphicon glyphicon-record"></i>&ampnbspINtex Hausverwaltung</a>
            </div>

        <!-- Collect the nav links, forms, and other content for toggling -->
        <div class="collapse navbar-collapse" id="bs-example-navbar-collapse-1">
            <ul class="nav navbar-nav">
                <li class="active"><a href="index.php">Info <span class="sr-
                    only">(current)</span></a></li>
                <li><a href="Hausverwaltung_Eigenschaften.php">Eigenschaften</a></li>
                <li><a href="Hausverwaltung_Demo.php">Demo</a></li>
                <li><a href="Hausverwaltung_Preise.php"><span class="menu-icon glyphicon glyphicon-eur"></span>&ampnbspPreise</a></li>
                <li><a href="https://www.intex-
                    publishing.de/cms/Beratung_list.php">Beratung</a></li>
                <li><a style="background: #1A6ECC;" href="https://www.intex-
                    shop.de/shop/vollversionen/intex-Hausverwaltung/">Shop</a></li>
            </ul>
        </div><!-- /.navbar-collapse -->
    </div><!-- /.container-fluid -->
</nav>
</div>

<!--Text-->
<div data-body-align="center" data-body-width="standard" class="r-body" data-
    resize-top="topbar" style="margin-top: 80px;">
    <div class="r-content">
        <div class="r-data-block" data-body-width="standard" >
            <div class="r-grid">

```

```

<?php

$curl = curl_init();

curl_setopt_array($curl, array(
    CURLOPT_URL => "https://www.intex-
publishing.de/cms/api/v1.php?table=HausverwaltungDT&action=list",
    CURLOPT_RETURNTRANSFER => true,
    CURLOPT_ENCODING => "",
    CURLOPT_MAXREDIRS => 10,
    CURLOPT_TIMEOUT => 0,
    CURLOPT_FOLLOWLOCATION => true,
    CURLOPT_HTTP_VERSION => CURL_HTTP_VERSION_1_1,
    CURLOPT_CUSTOMREQUEST => "GET",
    CURLOPT_HTTPHEADER => array(
        "Authorization: Basic XXX",
        "Cookie: YYY"
    ),
));

$response = curl_exec($curl);

curl_close($curl);

$info=json_decode($response, true) ['data'];

usort($info, function ($a, $b) {
    return $a['Sortierung'] <=> $b['Sortierung'];
});

//Echoing the contents from the CMS backend

foreach($info as $result)  {

    $htmlblock=str_replace("images/cms/", "https://www.intex-
publishing.de/cms/images/cms/", $result['Text']);

    echo $htmlblock, '<br>';

}

?>

</div>
</div>
</div>
</div>
</div>

<!-- Fussbereich -->

<?php

$curl = curl_init();

```

```

curl_setopt_array($curl, array(
    CURLOPT_URL => "https://www.intex-
publishing.de/cms/api/v1.php?table=Fuss&action=list",
    CURLOPT_RETURNTRANSFER => true,
    CURLOPT_ENCODING => "",
    CURLOPT_MAXREDIRS => 10,
    CURLOPT_TIMEOUT => 0,
    CURLOPT_FOLLOWLOCATION => true,
    CURLOPT_HTTP_VERSION => CURL_HTTP_VERSION_1_1,
    CURLOPT_CUSTOMREQUEST => "GET",
    CURLOPT_HTTPHEADER => array(
        "Authorization: Basic XXX",
        "Cookie: YYY"
    ),
));

$response = curl_exec($curl);
curl_close($curl);

$info=json_decode($response, true) ['data'];

//Fuss

foreach($info as $result) {

    $htmlblock=str_replace("images/cms/", "https://www.intex-
publishing.de/cms/images/cms/", $result['Text']);

    echo $htmlblock, '<br>';

}
?>

<!-- Optional JavaScript -->

<script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"
integrity="sha384-Tc5IQib027qvyjSMfHjOMaLkfUWVxZxUPnCJA712mCWNIPG9mGCD8wGNICPD7Txa"
crossorigin="anonymous"></script>

</body>
</html>

```

STATISTICS

Since we have PHP and a backend, you could even add your own statistics and write them back to the CMS. Create a statistics table like this:

	Name	Typ	Kollation
	ID	int(11)	
	Zeitstempel	datetime	
	Name	varchar(50)	utf8_general_ci
	Version	varchar(50)	utf8_general_ci
	Platform	varchar(50)	utf8_general_ci
	UserAgent	varchar(50)	utf8_general_ci
	Seite	varchar(50)	utf8_general_ci
	Referer	varchar(200)	utf8_general_ci
	IP	varchar(10)	utf8_general_ci
	Ort	varchar(100)	utf8_general_ci
	Land	varchar(100)	utf8_general_ci
	Region	varchar(100)	utf8_general_ci
	Latitude	varchar(50)	utf8_general_ci
	Longitude	varchar(50)	utf8_general_ci

Alle auswählen markierte:

Include browserdetect.php with

```
<?php

class Browser {
    /**
     * Figure out what browser is used, its version and the platform it is
     * running on.

    The following code was ported in part from JQuery v1.3.1
    */
    public static function detect() {
        $userAgent = strtolower($_SERVER['HTTP_USER_AGENT']);

        if ( stripos($userAgent, 'Firefox') !== false ) { $name = 'firefox'; }
        elseif ( stripos($userAgent, 'MSIE') !== false ) { $name = 'ie'; }
        elseif ( stripos($userAgent, 'Trident') !== false ) { $name = 'ie'; }
        elseif ( stripos($userAgent, 'Chrome') !== false ) { $name = 'chrome'; }
        elseif ( stripos($userAgent, 'Safari') !== false ) { $name = 'safari'; }

        // What version?
        if (preg_match('/.+(?:rv|it|ra|ie)[\/: ]([\d.]+)/', $userAgent,
$matches)) {
```

```

        $version = $matches[1];
    }
    else {
        $version = 'unknown';
    }

    // Running on what platform?
    if (preg_match('/linux/', $ userAgent)) {
        $platform = 'linux';
    }
    elseif (preg_match('/macintosh|mac os x/', $ userAgent)) {
        $platform = 'mac';
    }
    elseif (preg_match('/windows|win32/', $ userAgent)) {
        $platform = 'windows';
    }
    else {
        $platform = 'unrecognized';
    }

    return array(
        'name'      => $name,
        'version'   => $version,
        'platform'  => $platform,
        'userAgent' => $userAgent
    );
}
}

?>

```

In index.php we can the write our findings to the CMS backend via REST API too.

```

$curl = curl_init();

curl_setopt_array($curl, array(
    CURLOPT_URL => "https://www.intex-
publishing.de/cms/api/v1.php?table=Statistik&action	insert",
    CURLOPT_RETURNTRANSFER => true,
    CURLOPT_ENCODING => "",
    CURLOPT_MAXREDIRS => 10,
    CURLOPT_TIMEOUT => 0,
    CURLOPT_FOLLOWLOCATION => true,
    CURLOPT_HTTP_VERSION => CURL_HTTP_VERSION_1_1,
    CURLOPT_CUSTOMREQUEST => "POST",
    CURLOPT_POSTFIELDS => array('Name' => $name, 'Version' => $version, 'Platform' => $platform, 'UserAgent' => $user, 'Zeitstempel' => $zeit, 'Seite' => $seite, 'Referer' => $referer, 'IP' => $ip, 'Ort' => $ort, 'Region' => $region, 'Land' => $land, 'Longitude' => $lng, 'Latitude' => $lat),
    CURLOPT_HTTPHEADER => array(
        "Authorization: Basic XXX",
        "Cookie: YYY"
    ),
));

$response = curl_exec($curl);
curl_close($curl);

```

PUBLISHING PHPRUNNER PAGES DIRECTLY

And with some tweaks in Designer also your backend can serve as frontend itself.

The screenshot shows the CMS Designer interface. At the top, there are buttons for 'list', 'search', and a plus sign. Below that is a toolbar with 'Add field', 'Remove field', 'Insert...', 'Undo', and 'Redo'. On the left, there's a sidebar with 'logo' and 'menu' buttons. The main area shows a page structure with a header containing an H1 tag ('<H1>INtex Hausverwaltung PLUS<...>') and a text block labeled 'Text'. To the right is a 'list page properties' panel with sections for 'Cell properties' and 'list page properties'. The 'Cell properties' section includes tools for 'Merge', 'Insert', and 'Delete', along with options for 'align', 'orientation', 'wrap text', 'text color', 'background', and 'border'. The 'list page properties' section includes fields for 'width', 'height', and various styling options like 'italic', 'underline', 'bold', and 'font size'.

Just set the layout to “Advanced horizontal grid”, delete all elements you don’t want to see on your published site and set the cell of the text block field (no label) to white background and no borders – to eliminate the table look.

In security you need guest access to the public web pages of your CMS and you are ready to go.

The screenshot shows the public website at https://www.intex-publishing.de/cms/Startseite_list.php. The page features a large banner with the text 'Digitale Werkzeuge für Ihren Erfolg' and 'INtex Publishing - Die Datenbank-Profs für Cloud, Server und Desktop'. Below the banner is a keyboard image. A sub-section titled 'Unsere inhaltlichen Kompetenzfelder' lists 'Immobilien, Business, Finanzen, Auto&Reise'. To the right are a blue circular logo and a QR code. At the bottom, there are four small images representing different service areas: a modern building, two people shaking hands, stacks of coins, and a night city street.

LIVE OUT IN THE WILD

You can see all this here:

www.intex-publishing.de (backend/frontend based on PHPRunner)

www.hausverwaltung-pc.de (a site drawing its content from the PHPRunner backend). There are more child sites like this.

All this is work in progress, but we are having much fun realizing, that we have all opportunities thanks to PHPRunner without any big CMS plus dozens of plugins. The system is extremely helpful serving different domains at once and publishing text/media content and data content side by side.

A list of judgments on our website.

Q	Hafung bei Brandschaden : Nach Brand in Wohnhaus: Richter mahnen zu Vorsicht bei Mehr ...	15.07.2020 LG Coburg
Q	Zulässige fristlose Kündigung eines Wohnungsmieters wegen Lagerung und geplante Mehr ...	15.07.2020
Q	Niedersächsische Mietpreisbremse wohl rechtswidrig	15.07.2020
Q	Mietvertrag, Schönheitsreparatur u. Renovierungsklausel	13.07.2020 BGH
Q	Vermieter muss Lagerung von Feuerwerkskörpern nicht dulden	13.07.2020
Q	Mieter und Vermieter sollen sich das Renovieren teilen	11.07.2020 BGH VIII ZR 163/18
Q	Streitfall „Balkonien“: Was auf Terrasse und Balkon erlaubt ist und was verboten	10.07.2020 LG Berlin 55 S 18/19
Q	Wer streicht? - BGH vor Urteil zu Schönheitsreparaturen	08.07.2020 BGH
Q	Renovierung: BGH fällt Urteil - was Mieter und Vermieter wissen müssen	08.07.2020 BGH
Q	Hundehaltungsverbot in Mietwohnung nur bei konkreter von Hund ausgehender Gefahr Mehr ...	07.07.2020 AG Paderborn 51-C-11219
Q	Miete einbehalten : Mietstreit führt zu Kündigung	06.07.2020
Q	Räumungsfrist von drei Monaten aufgrund pandemiebedingter Schwierigkeiten bei der Mehr ...	02.07.2020 AG Düsseldorf
Q	BGH klärt Rechte bei Schönheitsreparaturen	01.07.2020 BGH
Q	BGH klärt Mieterrechte bei Schönheitsreparaturen	01.07.2020 BGH
Q	Teils lange Verjährungsfrist bei Schaden nach einer Renovierung	30.06.2020
Q	Hartz IV: Volle Kostenübernahme auch für zwei Mieten möglich	29.06.2020 BSG
Q	Separat abgeschlossene Mietverträge über Wohnung und Kfz-Stellplatz sind zwei Ve Mehr ...	29.06.2020 LG Berlin

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