
CSBill Documentation

Release

Pierre du Plessis

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CSBill is an open-source application that allows you to manage clients and contacts and send invoices and quotes.

System Requirements

Note: In order to run CSBill, you need at least PHP version **5.6.10**, but the latest version is always recommended

Requirements:

- PHP ($\geq 5.6.10$)
- MySQL Database ($> 5.5.0$)

CHAPTER 2

Downloading

There are different ways of obtaining CSBill.

If you plan to contribute to CSBill (E.G write patches, you should follow the *Installing from source* section. Otherwise follow the *Installing distribution package* section.

Installing distribution package

To install a packaged version of CSBill, download the latest version from <https://github.com/CSBill/CSBill/releases>.

Extract the archive to a folder that is accessible from your web-server (view the *Configuring your WebServer* document for more information)

Tip: If you are on a shared hosting environment, or only have ftp access to a server, then you can use ftp to upload all the files to the server

Installing from source

In order to install CSBill from source, you will need [composer](#), a package and dependency manager for PHP. If you do not yet have composer installed, follow the guide on *Installing Composer*.

Installing Composer

If you do not yet have composer installed on your system, you can use the following command to get composer

```
$ curl -sS http://getcomposer.org/installer | php
```

Once composer is downloaded, you can use it from the command line using the following command

```
$ php composer.phar
```

Using Composer

To install CSBill using [composer](#), run the following commands

```
$ php composer.phar create-project csbill/csbill
```

This will download CSBill into a directory called *csbill*, and will also install all the dependencies. If you encounter any issues while trying to install, please submit a [bug report](#).

The last step is to install the Node packages and dump all the web assets

```
$ npm install  
$ ./node_modules/.bin/gulp
```

Using Git

If you want to install CSBill using git, you can clone the repository using the following command:

```
$ git clone https://github.com/CSBill/CSBill.git
```

You will then need [composer](#) to install the required dependencies. To install Composer, please refer to the [installing-composer](#) section.

Go into the repository directory and install all the dependencies

```
$ cd CSBill  
$ php composer.phar install
```

If you encounter any issues while trying to install, please submit a [bug report](#).

The last step is to install the Node packages and dump all the web assets

```
$ npm install  
$ ./node_modules/.bin/gulp
```

Configuring your WebServer

If you are using a shared hosting server which uses apache and has rewrite rules enabled, then you can upload all the files either to your root public directory, or under a sub-folder. E.G If you upload the files to a `./billing/` directory, then you can access the site using <http://yourdomain.com/billing>

Tip: You can also use the *built-in server*, although it is not recommended for production use.

Configuring Apache

To run CSBill on apache, you need to create a custom virtual host.

```
<VirtualHost *:80>
    ServerName yourdomain.com
    ServerAlias www.yourdomain.com

    DocumentRoot /var/www/html/csbill/web
    <Directory /var/www/html/csbill/web>
        # enable the .htaccess rewrites
        AllowOverride All
        Order allow,deny
        Allow from All
    </Directory>

    ErrorLog /var/log/apache2/csbill.error.log
    CustomLog /var/log/apache2/csbill.access.log combined
</VirtualHost>
```

Warning: The above configurations might be different depending on the OS you are using on your server. For specific details on setting up Apache on your OS, please view the respective documentation for your operating system.

Configuring NginX

To run CSBill on NginX, you need to create a custom virtual host.

```
server {
    server_name yourdomain.com www.yourdomain.com;
    root /var/www/html/csbill/web;

    location / {
        # try to serve file directly, fallback to app.php
        try_files $uri /app.php$is_args$args;
    }

    location ~ ^/(app|app_dev|config)\.php(/|$) {
        fastcgi_pass unix:/var/run/php5-fpm.sock;
        fastcgi_split_path_info ^(.+\.(php|/.*)$);
        include fastcgi_params;
        fastcgi_param SCRIPT_FILENAME $document_root$fastcgi_script_name;
        fastcgi_param HTTPS off;
    }

    error_log /var/log/nginx/project_error.log;
    access_log /var/log/nginx/project_access.log;
}
```

Warning: The above configurations might be different depending on the OS you are using on your server. For specific details on setting up NginX on your OS, please view the respective documentation for your operating system.

PHP built-in server

To start the built-in web server, run the following command:

```
$ php app/console server:run
```

This will start the local web server, which is accessible at <http://localhost:8080>

Danger: The built-in web server is not meant to be used for production. If you want to run CSBill in a production environment, rather use *apache* or *nginx*

For more info on the built-in server, or options you can use when using the built-in server see <http://php.net/manual/en/features.commandline.webserver.php> or http://symfony.com/doc/current/cookbook/web_server/built_in.html

CHAPTER 4

Installation

When navigating to the application for the first time, you will automatically land on the installation page.

This page will show if your system meets all the requirements in order to run CSBill. If your system does not meet the requirements, an error message will advise you what you need to change in order to meet the requirements. After you have fixed any issues, refresh the page by either pressing `F5` or hitting the `Refresh` button.

If there are no errors, you can proceed by pressing the `Next` button.

CSBill Installation - Requirements Check

Requirements Check

Database Config

Installation Process

System Setup

Finish

Mandatory

- ✓ PHP version must be at least 5.6.10 (7.0.6 installed)
- ✓ Vendor libraries must be installed
- ✓ app/cache/ or var/cache/ directory must be writable
- ✓ app/logs/ or var/logs/ directory must be writable
- ✓ date.timezone setting must be set
- ✓ Configured default timezone "Africa/Johannesburg" must be supported by your installation of PHP
- ✓ iconv() must be available
- ✓ json_encode() must be available
- ✓ session_start() must be available
- ✓ ctype_alpha() must be available
- ✓ token_get_all() must be available
- ✓ simplexml_import_dom() must be available
- ✓ detect_unicode must be disabled in php.ini
- ✓ xdebug.show_exception_trace must be disabled in php.ini
- ✓ xdebug.scream must be disabled in php.ini
- ✓ PCRE extension must be available
- ✓ string functions should not be overloaded
- ✓ mcrypt_encrypt() should be available
- ✓ intl extension should be available
- ✓ icu library must be at least 3.8
- ✓ web/uploads/ directory must be writable
- ✓ app/config/parameters.yml file must be writable
- ✓ PDO should be installed
- ✓ The MySQL driver for PDO should be installed (currently available: mysql, sqlite)

Optional

- ✓ xdebug.max_nesting_level should be above 100 in php.ini
- ✓ Requirements file should be up-to-date
- ✓ PCRE extension should be at least version 8.0 (8.38 installed)
- ✓ PHP-DOM and PHP-XML modules should be installed
- ✓ mb_strlen() should be available
- ✓ iconv() should be available
- ✓ utf8_decode() should be available
- ✓ filter_var() should be available
- ✓ posix_isatty() should be available
- ✓ intl extension should be available
- ✓ intl extension should be correctly configured
- ✓ intl ICU version should be at least 4+
- ✓ intl.error_level should be 0 in php.ini
- ✓ a PHP accelerator should be installed
- ✓ short_open_tag should be disabled in php.ini
- ✓ magic_quotes_gpc should be disabled in php.ini
- ✓ register_globals should be disabled in php.ini
- ✓ session.auto_start should be disabled in php.ini

REFRESH

NEXT →

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Configuration

This step allows you to set up your database and email configuration.

Database Configuration

Add your database information. If the database doesn't exist, CSBill will attempt to create it.

Attention: Only MySQL is supported at the moment. Support for other databases may be added in a future release

Email Configuration

Set up your email configuration in order to send out emails.

Current supported email transports:

- PHP Mail

Uses the standard `mail()` function of PHP.

Note: Your server must be configured correctly for this to work.

- Sendmail

Uses Sendmail for sending emails.

Note: Sendmail must be set up and configured properly on server for this to work.

- SMTP


Connects to a SMTP server for sending emails.


- Gmail


Sends emails through Gmail. **Note:** A valid Gmail account and password must be provided.


When you are done, continue by pressing the `Next` button.


CSBill Installation - Database Config



Requirements Check


Database Config


Installation Process


System Setup


Finish

 Database Config

* Driver

mysql

* Host

localhost

Port

3306


* User

csbill

Password

Database Name

csbill

 Email Settings

* Transport

SMTP

* Host

smt.server.com

Port

Encryption

None

User

user@server.com

Password

NEXT →

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Installation Process

At this point, the database will be installed and all your tables will be created.

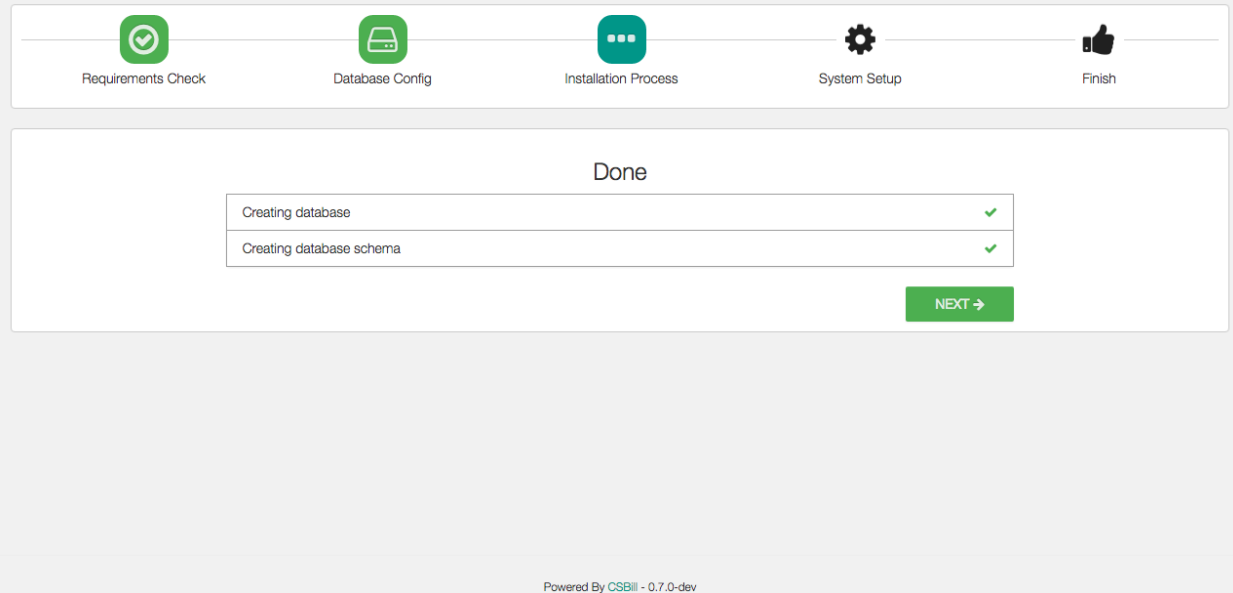
When the installation is complete and there are no error, you can continue with the setup process by pressing on the Next button.

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Chapter 4. Installation

CSBill Installation

CSBill Installation - Installation Process



The screenshot shows the CSBill Installation process. At the top, there is a progress bar with five steps: Requirements Check (checked), Database Config, Installation Process (active), System Setup, and Finish. Below the progress bar, the word "Done" is centered. Under "Done", there is a table with two rows: "Creating database" and "Creating database schema", both with green checkmarks in the right column. A green "NEXT →" button is located at the bottom right of the table. At the bottom of the page, it says "Powered By CSBill - 0.7.0-dev".

System Information

The following values need to be configured:

- Locale

Note: The Locale doesn't only determine the language to use. It is also used for currency and number formatting. So be sure to choose the correct locale for your country.

Note: Only the `English` language is supported at the moment, but support for other languages may be added in a future release.

- Currency
- Base Url

This value should be pre-populated, and in most cases can remain unchanged.

When you are done, continue by pressing the `Next` button.

Admin User

You need to create an admin user. The provided details will be the credentials you use to log into the system.


Final Steps

After the setup process is complete, the last step is to set up the Cron job.


The Cron job is used to run scheduled tasks like recurring invoices. Setting up the cron job will be different based on your hosting provider. Please consult your hosting provider for the proper way to set up the cron job.


Warning: If you do not set up the cron job, functionality will be limited, and scheduled tasks won't be able to run. It is **highly** recommended to set up the cron job.


When you are done and ready to use the application, press the `Log in now` button to log into the application.


 CSBill Installation


CSBill Installation - Finish


Requirements Check


Database Config


Installation Process


System Setup


Finish


Success

You have successfully installed CSBill!

As a final step, you must add a scheduled task to run every 5 minutes.

Add the following cron job:

```
0/5 * * * * php /path/to/your/installed/application/app/console cron:run -e prod -n
```

 **LOG IN NOW**

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Welcome to CSBill's documentation!

CSBill is an open-source application that allows you to manage clients and contacts and send invoices and quotes.

User Guide

- *Getting Started*
- *Installation*