

Development Environment

Here is an instructions how to install a development environment for your local machine.

Install a XAMPP with PHP 8.2.+

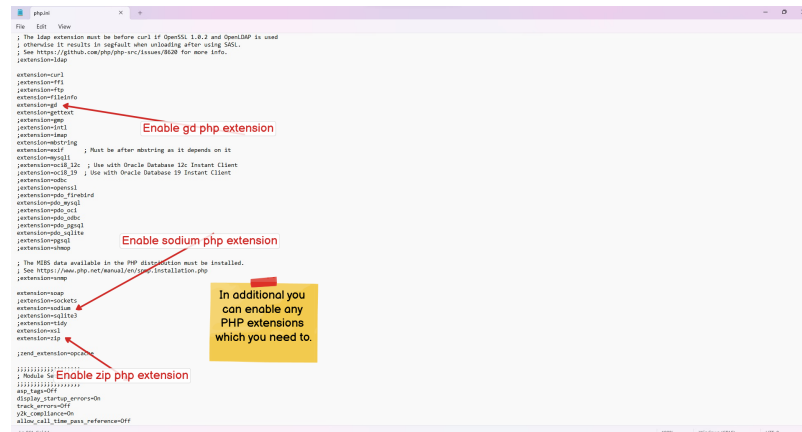
Please install a XAMPP with PHP 8.2.+ from address below:

<https://www.apachefriends.org/download.html>

Important! Laravel 9 and or 10 do not work with PHP 7 and or 8.1.

Before you run composer install command in Windows PowerShell/CMD you need to enable various PHP extension in php.ini file in folder C:\xampp\php.

List of PHP extensions to enable is zip, sodium and gd. Please restart XAMPP Apache 2 after change of php.ini file.



Install a Composer

Please install a composer from address below:

<https://getcomposer.org/download/>

Install a Node.js LTS

Please install a Node.js LTS from address below:

<https://nodejs.org/en/download/>

Install a TortoiseGIT

Please install a Tortoise GIT from address below:

<https://tortoisegit.org/download/>

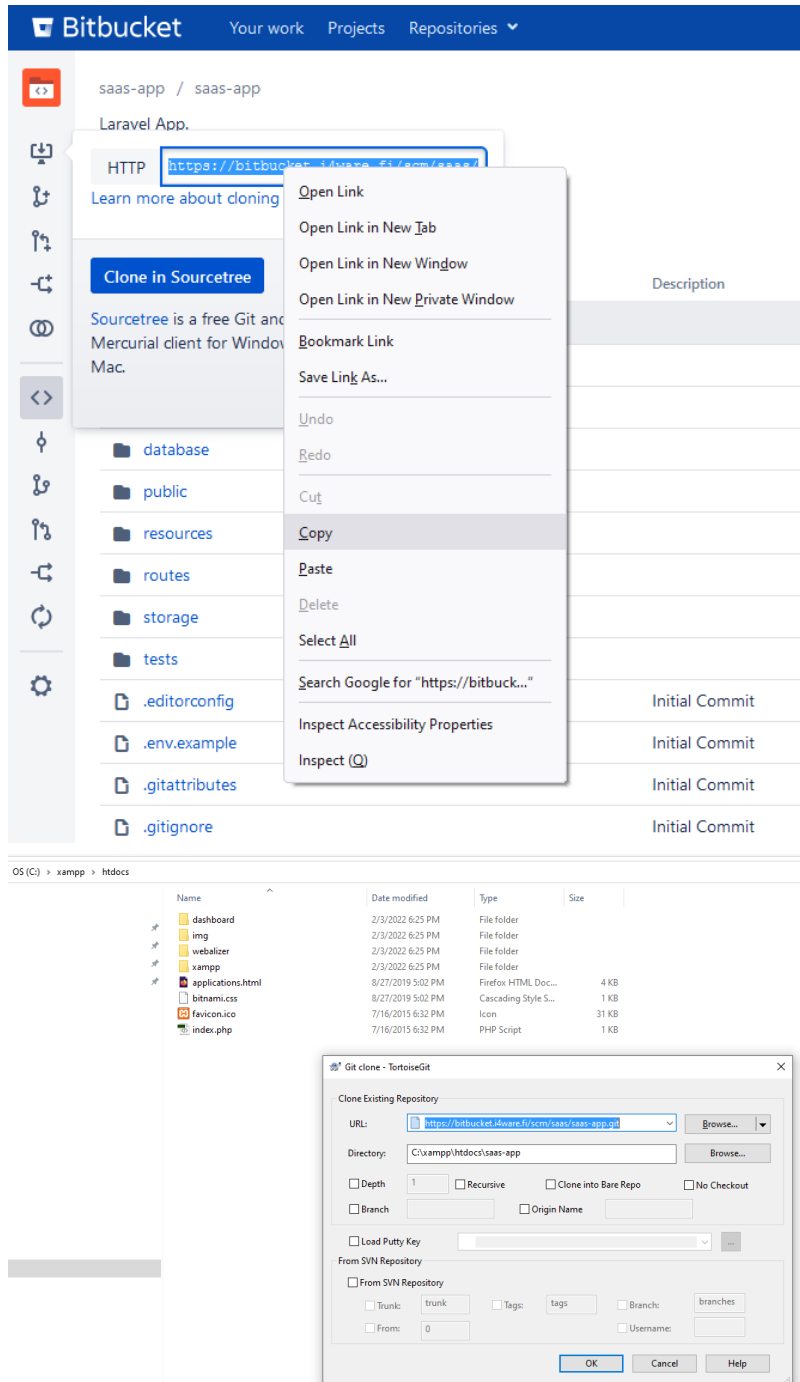
Install a Git for Windows

Please install a Git for Windows from address below:

<https://gitforwindows.org/>

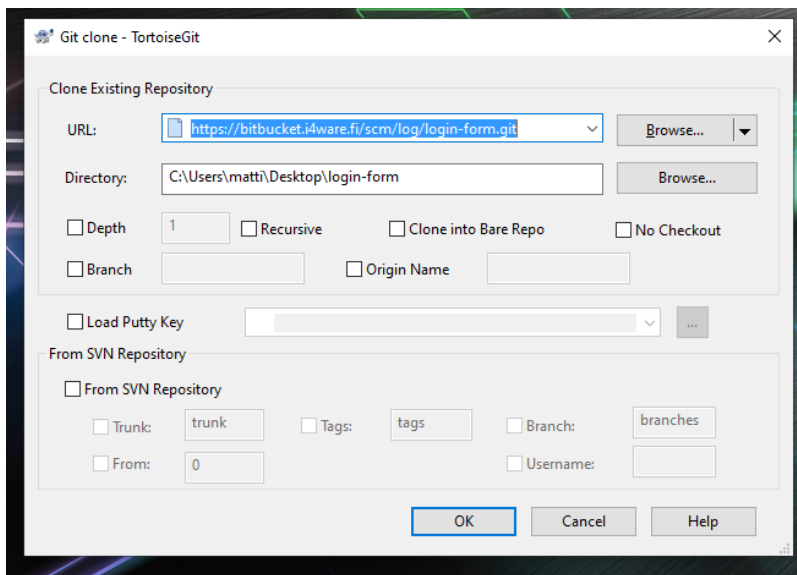
Clone a GIT repositories with TortoiseGIT

Clone <https://bitbucket.i4ware.fi/scm/saas/saas-app.git> to C:\xampp\htdocs. See the Screenshots below:



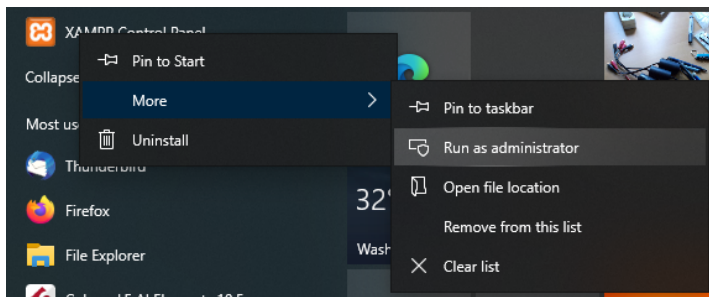
The screenshot shows the Bitbucket web interface for a repository named 'saas-app'. The left sidebar contains a file tree with folders like 'database', 'public', 'resources', 'routes', 'storage', 'tests' and files like '.editorconfig', '.env.example', '.gitattributes', and '.gitignore'. A context menu is open over the repository name, showing options like 'Clone in Sourcetree', 'Open Link', 'Copy', and 'Paste'. Below the repository page, a file explorer window shows the local file system structure, including folders like 'dashboard', 'img', 'webalizer', 'xampp' and files like 'applications.html', 'bitnam.css', 'favicon.ico', and 'index.php'. A 'Git clone - TortoiseGit' dialog box is open, showing the URL 'https://bitbucket.i4ware.fi/scm/saas-app.git' and the directory 'C:\xampp\htdocs\saas-app'.

Clone <https://bitbucket.i4ware.fi/scm/log/login-form.git> to C:\selected_folder_yours (ideal way is a clone this to you desktop). See the Screenshot below:



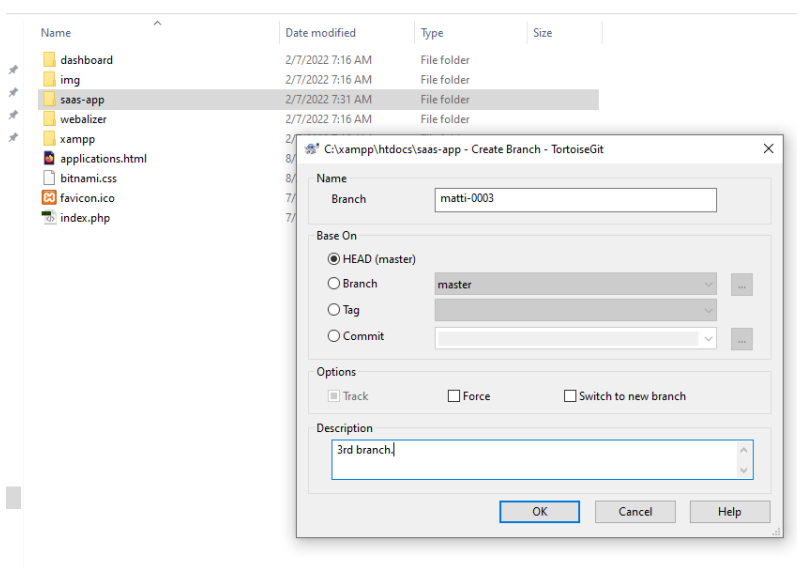
Run a XAMPP as administrator

Important! You must run a XAMPP as administrator or otherwise it not work as needed. See the Screenshot below:

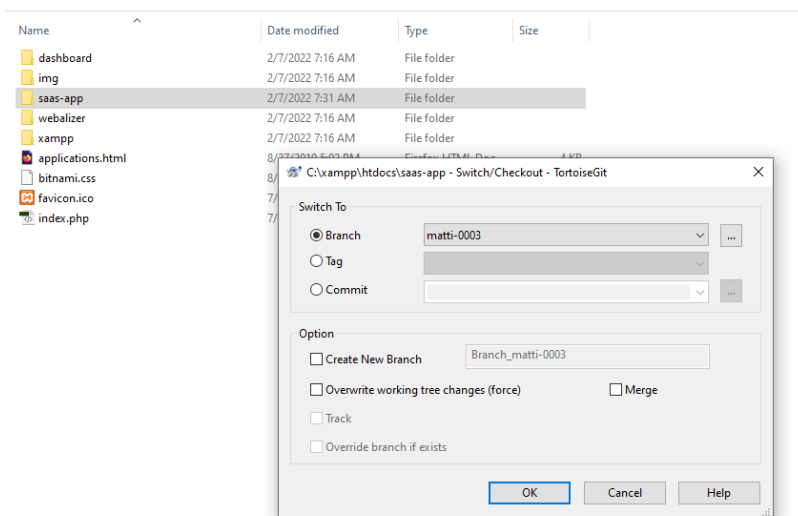


Prepare a Development in XAMPP (a Laravel PHP Back-end of this App)

Before you starting a developing this software is important you make branch. See the Screenshot below:



And then switch/checkout to your new branch. See the screenshot below:



Before composer install command in PowerShell/CMD you must configure file C:\xampp\php\php.ini like this (jsut uncommet lines below) and restart Apache 2:

extension=curl

extension=gd

; The MIBS data available in the PHP distribution must be installed.

; See <https://www.php.net/manual/en/snmp.installation.php>

;extension=snmp

extension=soap

;extension=sockets

extension=sodium

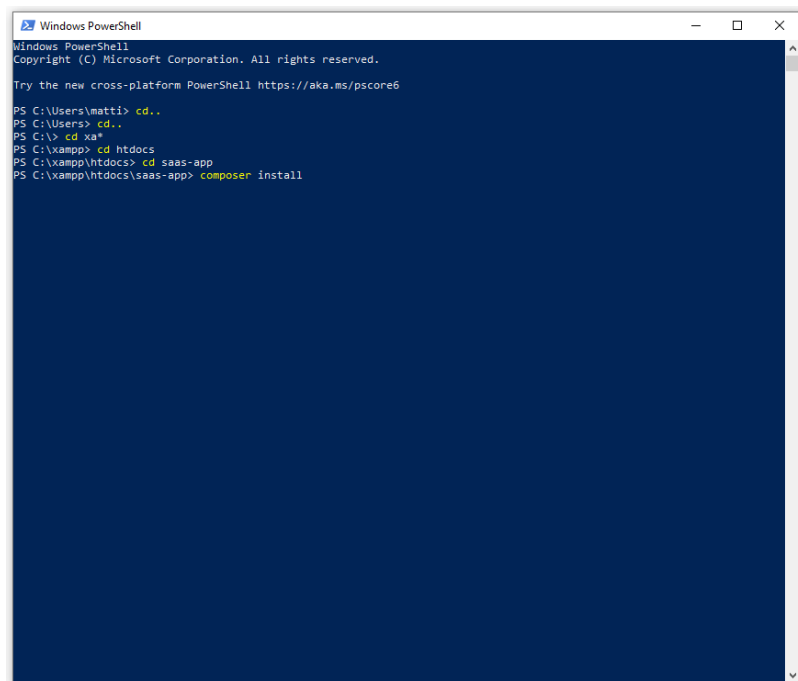
;extension=sqlite3

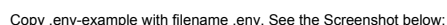
;extension=tidy

extension=xsl

extension=zip

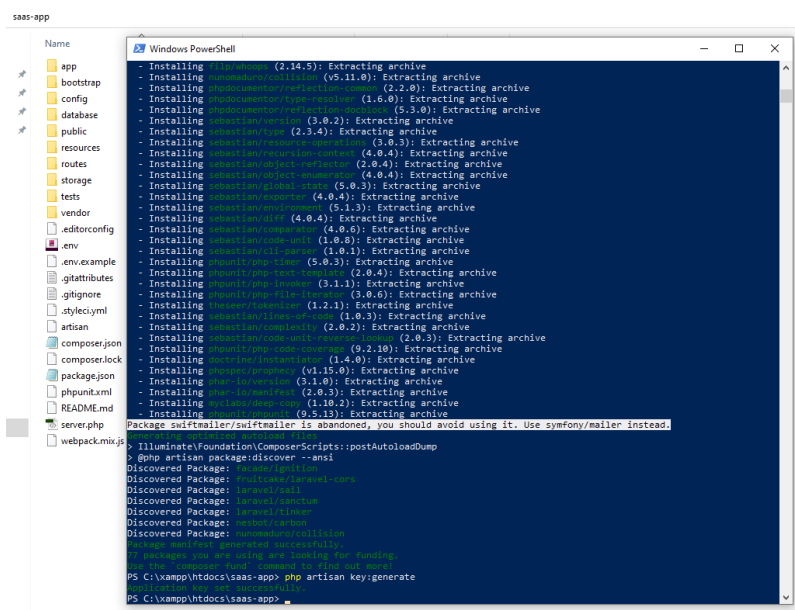
Run a composer install. See the Screenshots below:



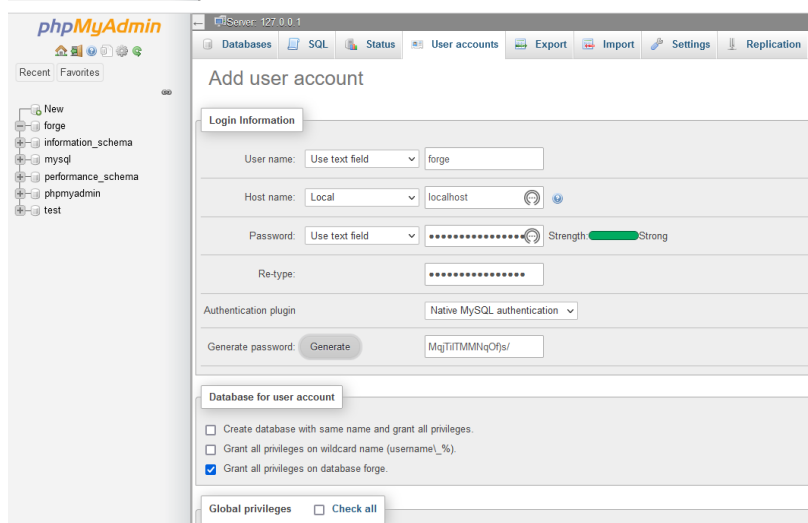
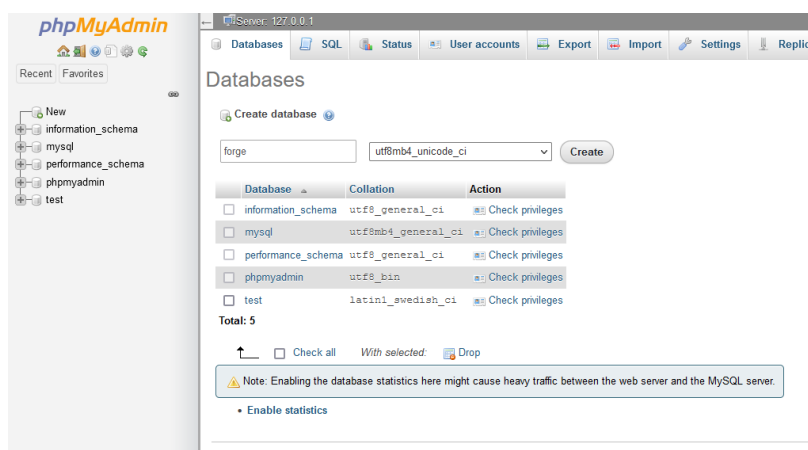


Then run a php artisan key:generate. See the Screenshots below:





Create database forge and user forge for it. See the Screenshots below:



Edit .env file. See the Screenshot below:

```
C:\xampp\htdocs\saas-app\.env - Notepad++
Tiedosto Muokkaa Etsi Näytä Tiedostomuoto Koodikieli Asetukset Tools Makro Suorita Liitännäiset Ikkuna ?
.env
1 APP_NAME=Laravel
2 APP_ENV=local
3 APP_KEY=base64:YulMvTGfTEAEIyzEv4Tr1NUopD+ZTC1r6FPBJV2XHY8=
4 APP_DEBUG=true
5 APP_URL=http://localhost/saas-app/public
6
7 LOG_CHANNEL=stack
8 LOG_DEPRECATIONS_CHANNEL=null
9 LOG_LEVEL=debug
10
11 DB_CONNECTION=mysql
12 DB_HOST=127.0.0.1
13 DB_PORT=3306
14 DB_DATABASE=forge
15 DB_USERNAME=forge
16 DB_PASSWORD=wy (Ma7QhLD8IhC0z
17
```

Run php artisan migrate and then php artisan db:seed. Username that comes to table users is same then in this setting in .env file
[APP_DOMAIN_ADMIN_EMAIL=matti.kiviharju@i4ware.fi](#) and password is 12345678
 See the Screenshots below:

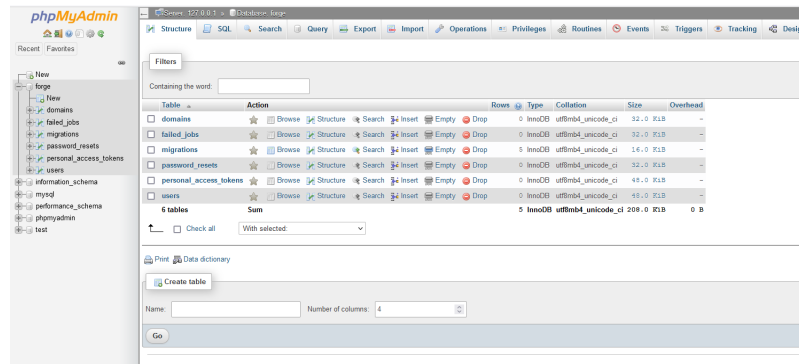
```
Windows PowerShell
- Installing doctrine/dbal (2.14.5): Extracting archive
- Installing illuminate/collections (v5.11.0): Extracting archive
- Installing illuminate/contracts (2.2.0): Extracting archive
- Installing illuminate/translation (1.6.0): Extracting archive
- Installing illuminate/translation (5.3.0): Extracting archive
- Installing illuminate/view (3.0.2): Extracting archive
- Installing illuminate/view (2.3.4): Extracting archive
- Installing illuminate/view (3.0.3): Extracting archive
- Installing illuminate/view (4.0.4): Extracting archive
- Installing illuminate/view (2.0.4): Extracting archive
- Installing illuminate/view (4.0.4): Extracting archive
- Installing illuminate/view (5.0.3): Extracting archive
- Installing illuminate/view (4.0.4): Extracting archive
- Installing illuminate/view (5.1.3): Extracting archive
- Installing illuminate/view (4.0.4): Extracting archive
- Installing illuminate/view (4.0.6): Extracting archive
- Installing illuminate/view (1.0.8): Extracting archive
- Installing illuminate/view (1.0.1): Extracting archive
- Installing illuminate/view (5.0.3): Extracting archive
- Installing illuminate/view (2.0.4): Extracting archive
- Installing illuminate/view (3.1.1): Extracting archive
- Installing illuminate/view (3.0.6): Extracting archive
- Installing illuminate/view (1.2.1): Extracting archive
- Installing illuminate/view (1.0.3): Extracting archive
- Installing illuminate/view (2.0.2): Extracting archive
- Installing illuminate/view (2.0.3): Extracting archive
- Installing illuminate/view (9.2.10): Extracting archive
- Installing doctrine/instantiator (1.4.0): Extracting archive
- Installing illuminate/view (v1.15.0): Extracting archive
- Installing illuminate/view (3.1.0): Extracting archive
- Installing illuminate/view (2.0.3): Extracting archive
- Installing illuminate/view (1.10.2): Extracting archive
- Installing illuminate/view (9.5.13): Extracting archive
Package swiftmailer/swiftmailer is abandoned, you should avoid using it. Use symfony/mailer instead.
PS C:\xampp\htdocs\saas-app> php artisan key:generate
PS C:\xampp\htdocs\saas-app> php artisan migrate_
```

opD+ZTC1r6FPBJV2XHY8=

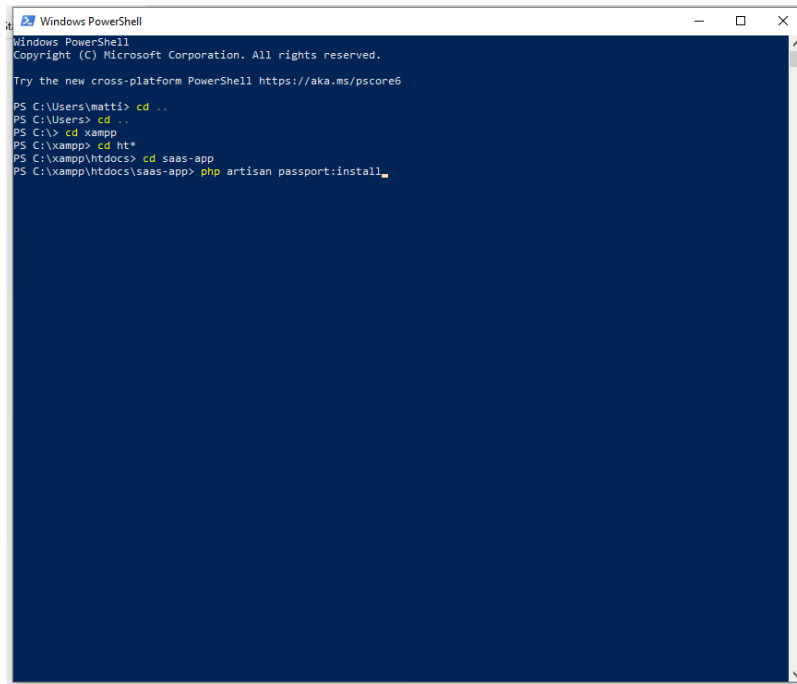
```
ic/ Windows PowerShell
- Installing sebastian/composer (4.0.4): Extracting archive
- Installing sebastian/environment (5.1.3): Extracting archive
- Installing sebastian/diff (4.0.4): Extracting archive
- Installing sebastian/code-unit (4.0.6): Extracting archive
- Installing sebastian/code-unit-reverse-lookup (2.0.0): Extracting archive
- Installing sebastian/cli-parser (1.0.1): Extracting archive
- Installing phpunit/php-timer (5.0.3): Extracting archive
- Installing phpunit/php-text-template (2.0.4): Extracting archive
- Installing phpunit/phpunit (9.5.13): Extracting archive
- Installing phpunit/php-file-iterator (3.0.6): Extracting archive
- Installing theseer/tokenizer (1.2.1): Extracting archive
- Installing sebastian/lines-of-code (1.0.3): Extracting archive
- Installing sebastian/object-reflector (2.0.2): Extracting archive
- Installing sebastian/object-enumerator (3.0.4): Extracting archive
- Installing phpunit/php-code-coverage (9.2.10): Extracting archive
- Installing doctrine/instantiator (1.4.0): Extracting archive
- Installing symfony/process (v4.15.0): Extracting archive
- Installing symfony/yaml (v4.4.27): Extracting archive
- Installing symfony/finder (v4.4.27): Extracting archive
- Installing symfony/var-dumper (v4.4.27): Extracting archive
- Installing symfony/console (v4.4.27): Extracting archive
- Installing symfony/css-selector (v4.4.27): Extracting archive
- Installing symfony/http-client (v4.4.27): Extracting archive
- Installing symfony/http-foundation (v4.4.27): Extracting archive
- Installing symfony/http-kernel (v4.4.27): Extracting archive
- Installing symfony/mailer (v4.4.27): Extracting archive
- Installing symfony/mime (v4.4.27): Extracting archive
- Installing symfony/routing (v4.4.27): Extracting archive
- Installing symfony/serializer (v4.4.27): Extracting archive
- Installing symfony/string (v4.4.27): Extracting archive
- Installing symfony/translation (v4.4.27): Extracting archive
- Installing symfony/validator (v4.4.27): Extracting archive
- Installing symfony/web-link (v4.4.27): Extracting archive
- Installing symfony/web-token (v4.4.27): Extracting archive
- Installing symfony/yaml (v4.4.27): Extracting archive
- Installing swiftmailer/swiftmailer (v6.3.0): Extracting archive
Package swiftmailer/swiftmailer is abandoned, you should avoid using it. Use symfony/mailer instead.
> illuminate\Foundation\ComposerScripts::postAutoloadDump
> @php artisan package:discover --ansi
Discovered Package: laravel/serializable-interfaces
Discovered Package: laravel/sail
Discovered Package: laravel/sanctum
Discovered Package: laravel/socialite
Discovered Package: nesbot/carbon
Discovered Package: nunomaduro/collision
Package manifest generated successfully.
> illuminate\Foundation\ComposerScripts::postAutoloadDump
> @php artisan package:discover --ansi
Discovered Package: laravel/serializable-interfaces
Discovered Package: laravel/sail
Discovered Package: laravel/sanctum
Discovered Package: laravel/socialite
Discovered Package: nesbot/carbon
Discovered Package: nunomaduro/collision
Package manifest generated successfully.
PS C:\xampp\htdocs\saas-app> php artisan key:generate
PS C:\xampp\htdocs\saas-app> php artisan migrate

Migrating: 2014_10_12_000000_create_users_table
Migrating: 2014_10_12_000000_create_users_table (47.68ms)
Migrating: 2014_10_12_100000_create_password_resets_table
Migrating: 2014_10_12_100000_create_password_resets_table (43.23ms)
Migrating: 2019_08_19_000000_create_failed_jobs_table
Migrating: 2019_08_19_000000_create_failed_jobs_table (37.99ms)
Migrating: 2019_12_14_000001_create_personal_access_tokens_table
Migrating: 2019_12_14_000001_create_personal_access_tokens_table (53.83ms)
Migrating: 2022_03_04_000000_create_domains_table
Migrating: 2022_03_04_000000_create_domains_table (105.18ms)
PS C:\xampp\htdocs\saas-app>
```

Check with phpMyAdmin has a databases created. See the Screenshot below:



Install a Laravel Passport with command `php artisan passport:install`: See screenshot below:



```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\matti> cd ..
PS C:\Users> cd ..
PS C:\> cd xampp
PS C:\xampp> cd ht*
PS C:\xampp\htdocs> cd saas-app
PS C:\xampp\htdocs\saas-app> php artisan passport:install
```

Finally run command `php artisan storage:link`

Setting up SMTP

In `.env` file has settings below:

```
MAIL_MAILER=smtp
MAIL_HOST=mailhog
MAIL_PORT=1025
MAIL_USERNAME=null
MAIL_PASSWORD=null
MAIL_ENCRYPTION=null
MAIL_FROM_ADDRESS=null
MAIL_FROM_NAME="{APP_NAME}"
```

These must be set like this:

```
MAIL_MAILER=smtp
MAIL_HOST=smtp.dnainternet.net
MAIL_PORT=25
MAIL_USERNAME=null
MAIL_PASSWORD=null
MAIL_ENCRYPTION=null
MAIL_FROM_ADDRESS=noreply@i4ware.fi
MAIL_FROM_NAME="{APP_NAME}"
```

SMTP host must be your ISP (Internet Service Provider) public SMTP on basic consumer Internet Connections.

Telia: mail.inet.fi
Kolumbus / Elisa: mail.kolumbus.fi tai smtp.kolumbus.fi
Welho: smtp.welho.com
Saunalahti / Jippii: posti.saunalahti.fi
Bittiguru: smtp.palvelukanava.fi (vain autentikoiden)
MTV3 / luukku.com : määritellään MTV3:n sähköpostiosoitteen mukaan
Jippii: mail.jippii.fi
Saunalahti: posti.saunalahti.fi
DNA: smtp.dnainternet.net
NIC: smtp.nic.fi
Baana: smtp.pikabaana.net
MB-Net: mail.mbnet.fi
Surfeu: mail.surfeu.fi
SOON: smtp.sooninternet.net
Song Networks: smtp.song.fi
Netsonic: smtp.netsonic.fi

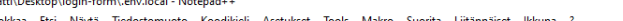
Prepare a ReactJS front-end

It is important you going to do a branch before you going to change a source code.

Run `npm install`. See the Screenshot below:

[illegible]

Create a .env.local file for your ReactJS App and edit it. See the Screenshot below:



The screenshot shows a Windows Notepad++ window titled 'C:\Users\matti\Desktop\login-form\env.local - Notepad++'. The menu bar includes 'Tiedosto', 'Muokkaa', 'Etsi', 'Näytä', 'Tiedostomuoto', 'Koodikieli', 'Asetukset', 'Tools', 'Makro', 'Suorita', 'Liittännäiset', and 'Ikkuna ?'. The toolbar contains various icons for file operations and editing. The editor has a single tab labeled 'env.local'. The text inside the editor is '1 REACT_APP_SERVER_URL=http://localhost/saas-app/public', with the first line selected.

Run npm start. See the Screenshot below:

```

C:\Windows PowerShell
npm WARN request-promise-native@1.0.9: request-promise-native has been deprecated because it extends the now deprecated request package. See https://github.com/request/request/issues/3142
npm WARN uri@0.1.0: Please see https://github.com/lydell/uri#deprecated
npm WARN resolve-url@0.2.1: https://github.com/lydell/resolve-url#deprecated
npm WARN source-map-resolve@0.5.3: See https://github.com/lydell/source-map-resolve#deprecated
npm WARN flat@0.9.3: flat is deprecated in favor of utility frameworks such as lodash.
npm WARN har-validator@5.1.5: this library is no longer supported
npm WARN sane@1.1.0: some dependency vulnerabilities fixed, support for node < 10 dropped, and newer ECMAScript syntax/features added
npm WARN left-pad@1.3.0: use String.prototype.padStart()
npm WARN querystring@0.2.0: The querystring API is considered Legacy. new code should use the URLSearchParams API instead.
npm WARN uuid@3.4.0: Please upgrade to version 7 or higher. Older versions may use Math.random() in certain circumstances, which is known to be problematic. See https://v8.dev/blog/math-random for details.
npm WARN @babel/journal@1.2.0: This version has been deprecated and is no longer supported or maintained
npm WARN @hapi/topo@3.1.6: This version has been deprecated and is no longer supported or maintained
npm WARN eslint-loader@3.0.3: This loader has been deprecated. Please use eslint-webpack-plugin
npm WARN request@2.88.2: request has been deprecated, see https://github.com/request/request/issues/3142
npm WARN eslint-webpack-plugin@0.0-beta.11: please switch to a stable version
npm WARN @hapi/address@2.1.4: Moved to 'npm install @sideway/address'
npm WARN babel-eslint@10.1.0: babel-eslint is now @babel/eslint-parser. This package will no longer receive updates.
npm WARN chokidar@2.1.8: Chokidar 2 does not receive security updates since 2019. Upgrade to chokidar 3 with 15x fewer dependencies
npm WARN chokidar@2.1.8: Chokidar 2 does not receive security updates since 2019. Upgrade to chokidar 3 with 15x fewer dependencies
npm WARN @hapi/hoek@8.5.1: This version has been deprecated and is no longer supported or maintained
npm WARN @hapi/joi@15.1.1: Switch to 'npm install joi'
npm WARN axios@0.19.2: Critical security vulnerability fixed in v0.21.1. For more information, see https://github.com/axios/axios/pull/3410
npm WARN svgo@1.3.2: This SVGO version is no longer supported. Upgrade to v2.x.x..
npm WARN core-js@2.6.12: core-js@<3.4 is no longer maintained and not recommended for usage due to the number of issues. Because of this, some engine features that are not in the latest version of the engine may cause a slowdown up to 100x even if nothing is polyfilled. Please, upgrade your dependencies to the actual version of core-js.

added 1674 packages, and audited 1675 packages in 2m

85 packages are looking for funding
  run `npm fund` for details

134 vulnerabilities (135 moderate, 18 high, 1 critical)

To address issues that do not require attention, run:
  npm audit fix

To address all issues (including breaking changes), run:
  npm audit fix --force

Run `npm audit` for details.
PS C:\Users\matti\Desktop\login-form> npm start

```

All needed steps has done now

If you see a App in your web-browser below then all you need for start to developing our software has done!

Welcome

Name

Enter name
We'll never share your name with anyone else.

Email address

Enter email
We'll never share your email with anyone else.

Domain (E.g. i4ware)

Enter domain
We'll never share your domain with anyone else.

Password

Password

Confirm Password

Confirm Password

Already have an account? [Login here](#)