Laratrust Docs Documentation

Release 4.0.0

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CHAPTER 1

Table of Contents:

Important: For newer versions please redirect to the new docs https://laratrust.santigarcor.me.

Note: Please read all the sections in order.

1.1 Upgrade from 3.2 to 4.0

Important: Laratrust 4.0 requires Laravel >= 5.1.40.

In order to upgrade from Laratrust 3.3 to 4.0 you have to follow these steps:

1. Change your composer. json to require the 4.0 version of Laratrust:

```
"santigarcor/laratrust": "4.0.*"
```

- 2. Run composer update to update the source code.
- 3. Update your config/laratrust.php:
 - 3.1. Backup your config/laratrust.php configuration values.
 - 3.2. Delete the config/laratrust.php file.
 - 3.3. Run php artisan vendor:publish --tag=laratrust.
 - 3.4. Update the config/laratrust.php file with your old values.

Note: Leave the use_teams key in false during the upgrade process.

- 4. If you use any values of the config/laratrust.php in your application code, update those values with the new file structure.
- 5. If you use the ability middleware and you pass the third argument (require all), please change it like this:

```
// From
'middleware' => ['ability:admin|owner,create-post|edit-user,true']
// To
'middleware' => ['ability:admin|owner,create-post|edit-user,require_all']
```

- 6. Run php artisan laratrust:upgrade to create the migration with the database upgrade.
- 7. Run php artisan migrate to apply the migration created in the previous step.
- 8. Delete the LaratrustSeeder.php file and run php artisan laratrust:seeder.
- 9. Run composer dump-autoload.

Now you can use the 4.0 version without any problem.

1.2 Installation

Important: For newer versions please redirect to the new docs https://laratrust.santigarcor.me.

1. In order to install Laratrust in your Laravel project, just run the *composer require* command from your terminal:

```
composer require "santigarcor/laratrust:4.0.*"
```

Note: If you are using Laravel 5.5 you don't need to do steps 2 and 3.

2. Then in your config/app.php add the following to the providers array:

```
Laratrust\LaratrustServiceProvider::class,
```

3. In the same config/app.php add the following to the aliases array:

```
'Laratrust' => Laratrust\LaratrustFacade::class,
```

4. Run the next command to publish all the configuration files:

```
php artisan vendor:publish --tag="laratrust"
```

Warning: If this command did not publish any files, chances are, the Laratrust service provider hasn't been registered. Try clearing your configuration cache:

```
php artisan config:clear
```

5. If you are going to use *Middleware* you also need to add the following to routeMiddleware array in app/ Http/Kernel.php:

```
'role' => \Laratrust\Middleware\LaratrustRole::class,
'permission' => \Laratrust\Middleware\LaratrustPermission::class,
'ability' => \Laratrust\Middleware\LaratrustAbility::class,
```

1.3 Configuration

1.3.1 After Installation

Configuration Files

In your config/laratrust.php file you will find all the package configurations that you can customize.

Teams Feature

If you want to use the teams feature that allows you to attach roles and permissions to an user depending on a team, you must change the use_teams key value to true in your config/laratrust.php file. Then follow the *Teams* configuration guide.

Multiple User Models

In the <code>config/laratrust.php</code> file you will find an <code>user_models</code> array, it contains the information about the multiple user models and the name of the relationships inside the <code>Role</code> and <code>Permission</code> models. For example:

```
'user_models' => [
   'users' => 'App\User',
],
```

Note: The value of the key in the key => value pair defines the name of the relationship inside the Role and Permission models.

It means that there is only one user model using Laratrust, and the relationship with the Role and Permission models is going to be called like this:

```
$role->users;
$role->users();
```

Note: Inside the role_user and permission_user tables the user_type column will be set with the user's fully qualified class name, as the polymorphic relations describe it in Laravel docs.

If you want to use the MorphMap feature just change the use_morph_map value to true in Laratrust's configuration file.

Automatic setup (Recommended)

If you want to let laratrust to setup by itself, just run the following command:

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php artisan laratrust:setup

Warning: If Laravel does not recognize this command, the Laratrust service provider hasn't been registered. Check providers array in config/app.php and try clearing your configuration cache:

php artisan config:clear

This command will generate the migrations, create the Role and Permission models (if you are using the teams feature it will also create a Team model) and will add the trait to the configured user models.

Note: The user trait will be added to the models configured in the confiq/laratrust.php file.

And then do not forget to run:

composer dump-autoload

Important: If you did the steps above you are done with the configuration, if not, please read and follow the whole configuration process

1.3.2 Migrations

Now generate the Laratrust migration:

php artisan laratrust:migration

It will generate the <timestamp>_laratrust_setup_tables.php migration. You may now run it with the artisan migrate command:

php artisan migrate

After the migration, five (or six if you use teams feature) new tables will be present:

- roles stores role records.
- permissions stores permission records.
- teams stores teams records (Only if you use the teams feature).
- role_user stores polymorphic relations between roles and users.
- permission_role stores many-to-many relations between roles and permissions.
- $\bullet \ \ permission_user -- stores \ polymorphic \ relations \ between \ users \ and \ permissions.$

1.3.3 Models

Role

Create a Role model inside app/Role.php using the following example:

```
<?php
namespace App;
use Laratrust\LaratrustRole;
class Role extends LaratrustRole
{
}</pre>
```

The Role model has three main attributes:

- name Unique name for the Role, used for looking up role information in the application layer. For example: "admin", "owner", "employee".
- display_name Human readable name for the Role. Not necessarily unique and optional. For example: "User Administrator", "Project Owner", "Widget Co. Employee".
- description A more detailed explanation of what the Role does. Also, optional.

Both display_name and description are optional; their fields are nullable in the database.

Permission

Create a Permission model inside app/Permission.php using the following example:

```
<?php
namespace App;
use LaratrustVLaratrustPermission;
class Permission extends LaratrustPermission
{
}</pre>
```

The Permission model has the same three attributes as the Role:

- name Unique name for the permission, used for looking up permission information in the application layer. For example: "create-post", "edit-user", "post-payment", "mailing-list-subscribe".
- display_name Human readable name for the permission. Not necessarily unique and optional. For example "Create Posts", "Edit Users", "Post Payments", "Subscribe to mailing list".
- description A more detailed explanation of the Permission.

In general, it may be helpful to think of the last two attributes in the form of a sentence: "The permission display_name allows a user to description."

Team

Important: Only applies if you are using the teams feature.

Create a Team model inside app/Team.php using the following example:

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```
<?php
namespace App;
use LaratrustTeam;
class Team extends LaratrustTeam
{
}</pre>
```

The Team model has three main attributes:

- name Unique name for the Team, used for looking up team information in the application layer. For example: "my-team", "my-company".
- display_name Human readable name for the Team. Not necessarily unique and optional. For example: "My Team", "My Company".
- description A more detailed explanation of what the Team does. Also, optional.

Both display_name and description are optional; their fields are nullable in the database.

User

Next, use the LaratrustUserTrait trait in your existing user models. For example:

```
<?php
use Laratrust\Traits\LaratrustUserTrait;

class User extends Model
{
   use LaratrustUserTrait; // add this trait to your user model
   ...
}</pre>
```

This will enable the relation with Role and Permission, and add the following methods roles(), hasRole(\$name), hasPermission(\$permission), isAbleTo(\$permission), can(\$permission), and ability(\$roles, \$permissions, \$options) within your User model.

Do not forget to dump composer autoload:

```
composer dump-autoload
```

Important: At this point you are ready to go

1.3.4 Seeder

Laratrust comes with a database seeder, this seeder helps you fill the permissions for each role depending on the module, and creates one user for each role.

Note: Laratrust now accepts multiple user models so the seeder is going to work with the first user model inside the user models array.

Note: Laratrust now has teams feature, the seeder doesn't support it.

To generate the seeder you have to run:

```
php artisan laratrust:seeder
```

and:

```
composer dump-autoload
```

And in the database/seeds/DatabaseSeeder.php file you have to add this to the run method:

```
$this->call(LaratrustSeeder::class);
```

Note: If you have not run php artisan vendor:publish --tag="laratrust" you should run it in order to customize the roles, modules and permissions in each case.

Your config/laratrust_seeder.php file looks like this:

```
return [
   'role structure' => [
       'superadministrator' => [
           'users' => 'c,r,u,d',
           'acl' => 'c,r,u,d',
           'profile' => 'r,u'
       ],
       'administrator' => [
           'users' => 'c,r,u,d',
           'profile' => 'r,u'
       ],
       'user' => [
            'profile' => 'r,u'
       ],
   ],
   'permission_structure' => [
       'cru_user' => [
           'profile' => 'c,r,u'
       ],
   ],
];
```

To understand the role_structure you must know:

- The first level is the roles.
- The second level is the modules.
- The second level assignments are the permissions.

With that in mind, you should arrange your roles, modules and permissions like this:

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To understand the permission_structure you must know:

- The first level is the users.
- The second level is the modules.
- The second level assignments are the permissions.

With that in mind, you should arrange your users, modules and permissions like this:

Permissions

In case that you do not want to use the c,r,u,d permissions, in the config/laratrust_seeder.php there the permissions_map where you can change the permissions mapping.

1.3.5 **Teams**

Note: The teams feature is **optional**, this part covers how to configure it after the installation.

If you had your use_teams set to true during the installation and automatic setup, you can skip this part.

- 1. Set the use_teams value to true in your config/laratrust.php file.
- 2. Run php artisan laratrust:setup-teams.
- 3. Run php artisan migrate to apply the changes to the database.

Now you can use the teams feature in you code.

Please refer to the *Teams* concepts to learn how to use them.

1.4 Usage

1.4.1 Concepts

Set things up

Let's start by creating the following Roles:

Now we need to add Permissions:

Role Permissions Assignment & Removal

By using the LaratrustRoleTrait we can do the following:

Assignment

Removal

```
$admin->detachPermission($createPost); // parameter can be a Permission object, array_
→or id
// equivalent to $admin->permissions()->detach([$createPost->id]);
```

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```
$owner->detachPermissions([$createPost, $editUser]); // parameter can be a Permission_
→object, array or id
// equivalent to $owner->permissions()->detach([$createPost->id, $editUser->id]);
```

User Roles Assignment & Removal

With both roles created let's assign them to the users. Thanks to the LaratrustUserTrait this is as easy as:

Assignment

Removal

User Permissions Assignment & Removal

You can attach single permissions to a user, so in order to do it you only have to make:

Assignment

Removal

```
$user->detachPermission($createPost); // parameter can be a Permission object, array,
id or the permission string name
// equivalent to $user->roles()->detach([$createPost->id]);

$user->detachPermissions([$createPost, $editUser]); // parameter can be a Permission
object, array, id or the permission string name
// equivalent to $user->roles()->detach([$createPost->id, $editUser->id]);
```

Checking for Roles & Permissions

Now we can check for roles and permissions simply by doing:

```
$user->hasRole('owner');  // false
$user->hasRole('admin');  // true
$user->can('edit-user');  // false
$user->can('create-post');  // true
```

Note: If you want, you can use the hasPermission and isAbleTo methods instead of the can method.

Note: If you want to use the Authorizable trait alongside Laratrust please check *Troubleshooting*.

Both can () and hasRole () can receive an array or pipe separated string of roles & permissions to check:

```
$user->hasRole(['owner', 'admin']);  // true
$user->can(['edit-user', 'create-post']); // true

$user->hasRole('owner|admin');  // true
$user->can('edit-user|create-post'); // true
```

By default, if any of the roles or permissions are present for a user then the method will return true. Passing true as a second parameter instructs the method to require **all** of the items:

You can have as many Roles as you want for each User and vice versa. Also, you can have as many direct Permissionss as you want for each User and vice versa.

The Laratrust class has shortcuts to both can() and hasRole() for the currently logged in user:

```
Laratrust::hasRole('role-name');
Laratrust::can('permission-name');

// is identical to

Auth::user()->hasRole('role-name');
Auth::user()->hasPermission('permission-name');
```

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Warning: There aren't Laratrust::hasPermission or Laratrust::isAbleTo facade methods, because you can use the Laratrust::can even when using the Authorizable trait.

You can also use wildcard to check any matching permission by doing:

```
// match any admin permission
$user->can('admin.*'); // true

// match any permission about users
$user->can('*_users'); // true
```

Magic can method

You can check if a user has some permissions by using the magic can method:

```
$user->canCreateUsers();
// Same as $user->can('create-users');
```

If you want to change the case used when checking for the permission, you can change the magic_can_method_case value in your config/laratrust.php file.

```
// config/laratrust.php
'magic_can_method_case' => 'snake_case', // The default value is 'kebab_case'
// In you controller
$user->canCreateUsers();
// Same as $user->can('create_users');
```

User ability

More advanced checking can be done using the awesome ability function. It takes in three parameters (roles, permissions, options):

- roles is a set of roles to check.
- permissions is a set of permissions to check.
- options is a set of options to change the method behavior.

Either of the roles or permissions variable can be a comma separated string or array:

```
$user->ability(['admin', 'owner'], ['create-post', 'edit-user']);
// or
$user->ability('admin,owner', 'create-post,edit-user');
```

This will check whether the user has any of the provided roles and permissions. In this case it will return true since the user is an admin and has the create-post permission.

The third parameter is an options array:

```
$options = [
   'validate_all' => true | false (Default: false),
    'return_type' => boolean | array | both (Default: boolean)
];
```

- validate_all is a boolean flag to set whether to check all the values for true, or to return true if at least one role or permission is matched.
- return_type specifies whether to return a boolean, array of checked values, or both in an array.

Here is an example output:

```
$options = [
    'validate_all' => true,
    'return_type' => 'both'
];
list($validate, $allValidations) = $user->ability(
    ['admin', 'owner'],
    ['create-post', 'edit-user'],
    $options
) ;
var_dump($validate);
// bool(false)
var_dump($allValidations);
// array(4) {
      ['role'] => bool(true)
       ['role_2'] => bool(false)
      ['create-post'] => bool(true)
       ['edit-user'] => bool(false)
// }
```

The Laratrust class has a shortcut to ability () for the currently logged in user:

```
Laratrust::ability('admin, owner', 'create-post, edit-user');
// is identical to
Auth::user()->ability('admin,owner', 'create-post,edit-user');
```

Retrieving Relationships

1.4. Usage

The LaratrustUserTrait has the roles and permissions relationship, that return a MorphToMany relationships.

The roles relationship has all the roles attached to the user.

The permissions relationship has all the direct permissions attached to the user.

If you want to retrieve all the user permissions, you can use the allPermissions method. It returns a unified collection with all the permissions related to the user (via the roles and permissions relationships).

```
dump($user->allPermissions());
Illuminate\Database\Eloquent\Collection {#646
                                                                                 (continues on next page)
```

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```
#items: array:2 [
  0 \Rightarrow App \backslash Permission \{ \#662 \}
    #attributes: array:6 [
      "id" => "1"
      "name" => "edit-users"
      "display_name" => "Edit Users"
      "description" => null
      "created_at" => "2017-06-19 04:58:30"
      "updated_at" => "2017-06-19 04:58:30"
  }
  1 \Rightarrow App \backslash Permission \{ \#667 \}
    #attributes: array:6 [
      "id" => "2"
      "name" => "manage-users"
      "display_name" => "Manage Users"
      "description" => null
      "created_at" => "2017-06-19 04:58:30"
      "updated_at" => "2017-06-19 04:58:30"
```

If you want to retrieve the users that have some role you can use the query scope whereRoleIs:

```
// This will return the users with 'admin' role.
$users = User::whereRoleIs('admin')->get();
```

Also, if you want to retrieve the users that have some permission you can use the query scope where Permission Is:

```
// This will return the users with 'edit-user' permission.
$users = User::wherePermissionIs('edit-user')->get();
```

Objects's Ownership

If you need to check if the user owns an object you can use the user function owns:

```
public function update (Post $post) {
   if ($user->owns($post)) { //This will check the 'user_id' inside the $post
      abort(403);
   }
   ...
}
```

If you want to change the foreign key name to check for, you can pass a second attribute to the method:

```
public function update (Post $post) {
   if ($user->owns($post, 'idUser')) { //This will check for 'idUser' inside the $post
      abort(403);
   }
   ...
}
```

Permissions, Roles & Ownership Checks

If you want to check if a user can do something or has a role, and also is the owner of an object you can use the canAndOwns and hasRoleAndOwns methods:

Both methods accept three parameters:

- permission or role are the permission or role to check (This can be an array of roles or permissions).
- thing is the object used to check the ownership.
- options is a set of options to change the method behavior (optional).

The third parameter is an options array:

```
$options = [
   'requireAll' => true | false (Default: false),
   'foreignKeyName' => 'canBeAnyString' (Default: null)
];
```

Here's an example of the usage of both methods:

The Laratrust class has a shortcut to owns (), canAndOwns and hasRoleAndOwns methods for the currently logged in user:

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Ownable Interface

If the object ownership is resolved with a more complex logic you can implement the Ownable interface so you can use the owns, canAndOwns and hasRoleAndOwns methods in those cases:

Note: The ownerKey method **must** return the object's owner id value.

And then in your code you can simply do:

Teams

Note: The teams feature is **optional**, please go to the *Teams* configuration in order to use the feature.

Roles Assignment & Removal

The roles assignment and removal are the same, but this time you can pass the team as an optional parameter.

This will attach the admin role to the user but only within the my-awesome-team team.

You can also attach multiple roles to the user within a team:

```
$team = Team::where('name', 'my-awesome-team')->first();
$admin = Role::where('name', 'admin')->first();
$user = Role::where('name', 'user')->first();

$user->attachRoles([$admin, $user], $team); // parameter can be an object, array, id____or the string name.
```

To remove the roles you can do:

You can also sync roles within a group:

```
suser-syncRoles([sadmin, suser], steam); // parameter can be an object, array, id or <math>string name.
```

Permissions Assignment & Removal

The permissions assignment and removal are the same, but this time you can pass the team as an optional parameter.

```
$team = Team::where('name', 'my-awesome-team')->first();
$editUser = Permission::where('name', 'edit-user')->first();
$user->attachPermission($editUser, $team); // parameter can be an object, array, id_____or the string name.
```

This will attach the edit-user permission to the user but only within the my-awesome-team team.

You can also attach multiple permissions to the user within a team:

To remove the permissions you can do:

```
$user->detachPermission($editUser, $team); // parameter can be an object, array, id_
→or the string name.
$user->detachPermissions([$editUser, $manageUsers], $team); // parameter can be an_
→object, array, id or the string name.
```

You can also sync permissions within a group:

```
$user->syncRoles([$editUser, $manageUsers], $team); // parameter can be an object,
→array, id or the string name.
```

Checking Roles & Permissions

The roles and permissions verification is the same, but this time you can pass the team parameter.

Check roles:

```
$user->hasRole('admin', 'my-awesome-team');
$user->hasRole(['admin', 'user'], 'my-awesome-team', true);
```

Check permissions:

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```
$user->can('edit-user', 'my-awesome-team');
$user->can(['edit-user', 'manage-users'], 'my-awesome-team', true);
```

User Ability

The user ability is the same, but this time you can pass the team parameter.

```
$options = [
    'requireAll' => true | false (Default: false),
    'foreignKeyName' => 'canBeAnyString' (Default: null)
];

$user->ability(['admin'], ['edit-user'], 'my-awesome-team');
$user->ability(['admin'], ['edit-user'], 'my-awesome-team', $options);
```

Permissions, Roles & Ownership Checks

The permissions, roles and ownership checks work the same, but this time you can pass the team in the options array.

```
$options = [
  'team' => 'my-awesome-team',
  'requireAll' => false,
  'foreignKeyName' => 'writer_id'
];

$post = Post::find(1);
$user->canAndOwns(['edit-post', 'delete-post'], $post, $options);
$user->hasRoleAndOwns(['admin', 'writer'], $post, $options);
```

1.4.2 Soft Deleting

The default migration takes advantage of onDelete('cascade') clauses within the pivot tables to remove relations when a parent record is deleted. If for some reason you can not use cascading deletes in your database, the LaratrustRole and LaratrustPermission classes, and the HasRole trait include event listeners to manually delete records in relevant pivot tables.

In the interest of not accidentally deleting data, the event listeners will **not** delete pivot data if the model uses soft deleting. However, due to limitations in Laravel's event listeners, there is no way to distinguish between a call to delete() versus a call to forceDelete(). For this reason, **before you force delete a model, you must manually delete any of the relationship data** (unless your pivot tables uses cascading deletes). For example:

1.4.3 Blade Templates

Five directives are available for use within your Blade templates. What you give as the directive arguments will be directly passed to the corresponding Laratrust function.:

```
@role('admin')
    This is visible to users with the admin role. Gets translated to
   \Laratrust::hasRole('admin')
Gendrole
@permission('manage-admins')
   <p>This is visible to users with the given permissions. Gets translated to
   \Laratrust::can('manage-admins'). The @can directive is already taken by core
   laravel authorization package, hence the @permission directive instead.
@endpermission
@ability('admin, owner', 'create-post, edit-user')
    This is visible to users with the given abilities. Gets translated to
   \Laratrust::ability('admin,owner', 'create-post,edit-user')
@endability
@canAndOwns('edit-post', $post)
   This is visible if the user has the permission and owns the object. Gets,
→translated to
   \Laratrust::canAndOwns('edit-post', $post)
@endOwns
@hasRoleAndOwns('admin', $post)
   This is visible if the user has the role and owns the object. Gets translated,
   \Laratrust::hasRoleAndOwns('admin', $post)
@endOwns
```

1.4.4 Middleware

Concepts

You can use a middleware to filter routes and route groups by permission, role or ability:

```
Route::group(['prefix' => 'admin', 'middleware' => ['role:admin']], function() {
    Route::get('/', 'AdminController@welcome');
    Route::get('/manage', ['middleware' => ['permission:manage-admins'], 'uses' =>
    'AdminController@manageAdmins']);
});
```

If you use the pipe symbol it will be an *OR* operation:

```
'middleware' => ['role:admin|root']
// $user->hasRole(['admin', 'root']);

'middleware' => ['permission:edit-post|edit-user']
// $user->hasRole(['edit-post', 'edit-user']);
```

To emulate AND functionality you can do:

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```
'middleware' => ['role:owner|writer,require_all']
// $user->hasRole(['owner', 'writer'], true);

'middleware' => ['permission:edit-post|edit-user,require_all']
// $user->hasRole(['edit-post', 'edit-user'], true);
```

For more complex situations use ability middleware which accepts 3 parameters: roles, permissions, validate_all:

```
'middleware' => ['ability:admin|owner,create-post|edit-user,require_all']
// $user->ability(['admin', 'owner'], ['create-post', 'edit-user'], true)
```

Teams

If you are using the teams feature and want to use the middleware checking for your teams, you can use:

Note: The require_all is optional.

Middleware Return

The middleware supports two types of returns in case the check fails. You can configure the return type and the value in the config/laratrust.php file.

Abort

By default the middleware aborts with a code 403 but you can customize it by changing the middleware_params value.

Redirect

To make a redirection in case the middleware check fails, you will need to change the middleware_handling value to redirect and the middleware_params to the route you need to be redirected. Leaving the configuration like this:

1.5 Troubleshooting

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If you make changes directly to the Laratrust tables and when you run your code the changes are not reflected, please clear your application cache using:

```
php artisan cache:clear
```

Remember that Laratrust uses cache in the roles and permissions checks.

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If you want to use the Authorizable trait you have to do:

```
use Authorizable {
   Authorizable::can insteadof LaratrustUserTrait;
   LaratrustUserTrait::can as laratrustCan;
}
```

And then replace all the uses of can with hasPermission or isAbleTo.

Note: If you use the Laratrust::can facade method you don't have to change this method because it calls the hasPermission method.

If you encounter an error when doing the migration that looks like:

```
SQLSTATE[HY000]: General error: 1005 Can't create table 'laravelbootstrapstarter.#sql-

42c_f8' (errno: 150)

(SQL: alter table `role_user` add constraint role_user_user_id_foreign foreign_

key (`user_id`)

references `users` (`id`)) (Bindings: array ())
```

Then it is likely that the id column in your user table does not match the user_id column in role_user. Make sure both are INT (10).

_

When trying to use the LaratrustUserTrait methods, you encounter the error which looks like:

```
Class name must be a valid object or a string
```

Then probably you do not have published Laratrust assets or something went wrong when you did it. First of all check that you have the laratrust.php file in your app/config directory. If you don't, then try php artisan vendor:publish and, if it does not appear, manually copy the /vendor/santigarcor/laratrust/src/config/config.php file in your config directory and rename it laratrust.php.

1.6 License

Laratrust is free software distributed under the terms of the MIT license.

1.7 Contributing

Support follows PSR-1 and PSR-4 PHP coding standards, and semantic versioning. Additionally the source code follows the PSR-2 code style and the builds check it.

Please report any issue you find in the issues page. Pull requests are welcome.