

Parent-select

A page describing how to edit a relationship by adding a HTML select element where the user can select which parent element must be associated with the model.

The essentials

Functional perspective

Technical perspective

Creating a child and attach it to a parent

Rendering the <select>

Digging deeper

Validating the select value

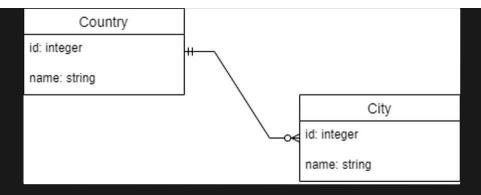
Limited options: radio buttons

Further reading

The essentials

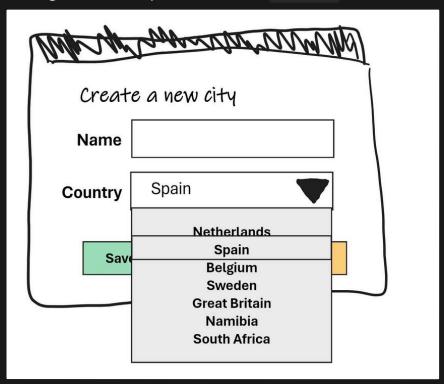
Parent-select is a UI design pattern that is useful when users need to manage related resources. For example, a country can have many cities, an order can have many orderlines, a blog post can have many comments, and each comment can have many reactions. This page explains the ideas behind this pattern and how to implement this in Laravel.

In a parent-select, the user is able to manage the relationship with a parent object when creating or editing a child. For example, given the following two entities that are related:



Functional perspective

When the user wants to create a new child (in this case, a city) - or edit an existing one -, he must be able to select a parent item (a country) where the child must belong to. For example with a HTML <select>, like this:



Technical perspective

From the technical perspective, 2 aspects are important:

- Creating a <select> element in the form that is prefilled with all available parents
- Handling the selection in the store or update controller methods when the form is submitted

The details of this is best explained by starting at the end

Creating a child and attach it to a parent

This is already covered in Eloquent relationships - Inserting & Updating
Related Models. The only difference here that the country's id must be passed in the request, like so:

```
public function store(Request $request) { // Validation logic omitted // F
etch the country $country = Country::find($request->country_id); // Create
the city object $city = new City(); $city->name = $request->name; // Assoc
iate it to the country and save to the database $country ->cities()->save
($city); return redirect()->route('cities.index') ->with('success', "$city
->title is created successfully"); }
```

As per Laravel convention, the name of the form input should match the corresponding column name.

Rendering the <select>

This is also already covered, see Form inputs - Introduction to <select>. The difference here is that the <option> elements need to be rendered dynamically. using a @foreach directive, for example like so:

```
<select name="country_id"> @foreach(\App\Models\Country::all() as
$country) <option value="{{ $country->id }}">{{ $country->name }}</option>
@endforeach </select>
```

It renders an <option> for each country in the database. It renders the id as its value and name as its content.

Digging deeper

Validating the select value

Although a select limits the available options for the user, it is good practice to validate any incoming input for security reasons (never trust your users).

To achieve this, you can add a validation rule that checks if the value exists in the given table's column, like so:

```
$validated = $request->validate([ 'name' => 'required', 'country_id' =>
'required|exists:countries,id' ]);
```

Limited options: radio buttons

When there are just 3 or 4 options, you can consider using radio buttons instead of a select.

See:

HTML Forms

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** https://www.w3schools.com/html/html_forms.asp

Further reading

When the amount of available options becomes large a regular select becomes less usable. The user might get caught in a long scrolling affair which he might not like. As an alternative, you can try a filter dropdown. See:

How To Search for Items in a Dropdown

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*** https://www.w3schools.com/howto/howto_js_filter_dropdo...