In the programming assignment 3 we created models, migrations and seeders. Each of the models represented blueprint for the data that is stored in the database. In this programming assignment we will build relationships between the models using Eloquent ORM.

Models

Please use models from programming assignment 3, ***Location***, ***Story***, ***Tag***.

Model Relationships

Please review relationships documentation: https://laravel.com/docs/5.2/eloquent-relationships

Prior to writing any code, let's review the models that we have, and how they could relate to each other. We got a location that has many stories with tags. To break it down further the relationships would look like this:

1. Location has many stories
2. Each story belongs to a specific location
3. Story has many tags
4. Tag can belong to many stories

From the list above, we can determine relationships as well as potential method names that could be used to define relationships in the model.

Time to code

1. Modify your story migration to include ***location_id*** as a field
2. Create pivot table ***story_tag***
    a. Make sure to find out why is the table called story_tag and not tag_story
3. Based on the breakdown of the relationships above, create methods within ***Location***, ***Story*** and ***Tag*** models to reflect those relationships
4. Update your seeders to do the following:
    a. ***Locations:*** Create few sample locations (keep track of range of ids, for example if you are going to create 10 locations, make sure to remember that)
    b. ***Stories:*** Create few stories for EACH of location, where location id will be integer between 1 and the number of locations you created
    c. ***Tags:*** Create tags, like you did in the programming assignment 3. Loop through the stories you have created (Story::get()) and attach tags to the stories. Make sure to insert (Use App\Story) if necessary to define namespace.

    Useful link:
    https://laravel.com/docs/5.2/eloquent-relationships#inserting-many-to-many-relationships

Modify Controllers

Update LocationController and StoryController, so that they eager load stories and tags.

More information: https://laravel.com/docs/5.2/eloquent-relationships#eager-loading

Example code for LocationController

```php
<?php
namespace App\Http\Controllers;

use Illuminate\Http\Request;

use App\Http\Requests;
use App\Http\Controllers\Controller;

use App\Location;

class LocationController extends Controller {
    public function index() {
        $locations = Location::with(’stories’)->get();
        return view(‘locations’, [‘locations’ => $locations]);
    }
}
```

Update Views

Finally, we will demonstrate how to display related stories to locations as well as tags to stories.

Update locations.blade.php and stories.blade.php.

Example code for locations.blade.php

```
<html>
    <body>
        @foreach ($locations as $location)
            <p>{{ $location->value }}</p>
            <ol>
                @foreach($location->stories as $story)
                    <li>{{ $story->title }}</li>
                @endforeach
            </ol>
        @endforeach
    </body>
</html>
```

What to submit:

Please update your fork of ***NYU-CS6015/Programming-Assignments***. Place your:

- StoryController
- LocationController
- create_locations_table
- create_stories_table
- create_tags_table
- create_story_tag_table
- LocationsTableSeeder
- StoriesTableSeeder
- TagsTableSeeder
- locations.blade.php
- stories.blade.php
- Screenshots of:
  - 192.168.10.10/locations as ***locations.png***
  - 192.168.10.10/stories as ***stories.png***

files in **Programming Assignment 6** directory. **Do not forget to commit** your programming assignment!

No need to create pull requests.