

## Create Functions

Next, create the functions that store, index, update, destroy, create, show, and edit the data.

You can add them to the file [app/Http/Controller/PostController.php](#) shown below.

### 1. The store Function

The store function adds a post to the database.

Scroll to the store function and add the following code inside the empty curly braces:

```
$request->validate([
    'title' => 'required|max:255',
    'body' => 'required',
]);
Post::create($request->all());
return redirect()->route('posts.index')
    ->with('success','Post created successfully.');
```

This code takes an object containing the post's title and body, validates the data, adds a new post to the database if the data is valid, and redirects the user to the homepage with a success message.

### 2. The index Function

The index function fetches all the posts from the database and sends the data to the [posts.index](#) page.

### 3. The update Function

The update function contains the id of the post to update, the new post title, and the body. After validating the data, it finds the post with the same id. If found, the update function updates the post in the database with the new title and body. Then, it redirects the user to the homepage with a success message.

### 4. The destroy Function

The destroy function finds a post with the given id and deletes it from the database, then redirects the user to the homepage with a success message.

The functions above are the functions used to CRUD posts from the database. However, you must define more functions inside the controller to render the necessary pages in **resources/views/posts/**.

## 5. The create Function

The create function renders the [resources/views/posts/create.blade.php](#) page, which contains the form for adding posts to the database.

## 6. The show Function

The show function finds a post with the given id in the database and renders the [resources/views/posts/show.blade.php](#) file with the post.

## 7. The edit Function

The edit function finds a post with the given id in the database and renders the [resources/views/posts/edit.blade.php](#) file with the post details inside a form.

## Set Up the Model

The Post model interacts with the **posts** table in the database.

1. To create a model with Artisan, run:

```
php artisan make:model Post
```

This code creates a **Post.php** file inside the **App/Models** folder.

2. Create a fillable array. Add the following code inside the Post class and below the use HasFactory; line

```
protected $fillable = [  
    'title',  
    'body',  
];
```

This code creates a fillable array that allows you to add items to the database from your Laravel application.

3. Connect the Post model to the **PostController.php** file.

Open **PostController.php** and add the line below under use Illuminate\Http\Request;. It looks like:

```
use Illuminate\Http\Request;
use App\Models\Post;
```

The **PostController.php** file should now look like this:

```
<?php
namespace App\Http\Controllers;
use Illuminate\Http\Request;
use App\Models\Post;
class PostController extends Controller
{
    /**
     * Display a listing of the resource.
     *
     * @return \Illuminate\Http\Response
     */
    public function index()
    {
        $posts = Post::all();
        return view('posts.index', compact('posts'));
    }
    /**
     * Store a newly created resource in storage.
     *
     * @param \Illuminate\Http\Request $request
     * @return \Illuminate\Http\Response
     */
    public function store(Request $request)
    {
        $request->validate([
            'title' => 'required|max:255',
            'body' => 'required',
        ]);
    }
}
```

```

]);
Post::create($request->all());
return redirect()->route('posts.index')
    ->with('success', 'Post created successfully.');
```

```

}
/**
 * Update the specified resource in storage.
 *
 * @param \Illuminate\Http\Request $request
 * @param int $id
 * @return \Illuminate\Http\Response
 */
public function update(Request $request, $id)
{
    $request->validate([
        'title' => 'required|max:255',
        'body' => 'required',
    ]);
    $post = Post::find($id);
    $post->update($request->all());
    return redirect()->route('posts.index')
        ->with('success', 'Post updated successfully.');
```

```

}
/**
 * Remove the specified resource from storage.
 *
 * @param int $id
 * @return \Illuminate\Http\Response
 */
public function destroy($id)
{
    $post = Post::find($id);
    $post->delete();
    return redirect()->route('posts.index')
        ->with('success', 'Post deleted successfully.');
```

```

}
// routes functions
/**
 * Show the form for creating a new post.
 *

```

```

    * @return \Illuminate\Http\Response
    */
    public function create()
    {
        return view('posts.create');
    }
    /**
     * Display the specified resource.
     *
     * @param int $id
     * @return \Illuminate\Http\Response
     */
    public function show($id)
    {
        $post = Post::find($id);
        return view('posts.show', compact('post'));
    }
    /**
     * Show the form for editing the specified post.
     *
     * @param int $id
     * @return \Illuminate\Http\Response
     */
    public function edit($id)
    {
        $post = Post::find($id);
        return view('posts.edit', compact('post'));
    }
}

```

## Add Routes

After creating the controller functions and the Post model, you must add routes for your controller functions.

1. Open **routes/web.php** and delete the boilerplate route that the application generated. Replace it with the code below to connect the controller functions to their respective routes:

```
// returns the home page with all posts
```

```

Route::get('/', PostController::class . '@index')->name('posts.index');
// returns the form for adding a post
Route::get('/posts/create', PostController::class . '@create')-
>name('posts.create');
// adds a post to the database
Route::post('/posts', PostController::class . '@store')-
>name('posts.store');
// returns a page that shows a full post
Route::get('/posts/{post}', PostController::class . '@show')-
>name('posts.show');
// returns the form for editing a post
Route::get('/posts/{post}/edit', PostController::class . '@edit')-
>name('posts.edit');
// updates a post
Route::put('/posts/{post}', PostController::class . '@update')-
>name('posts.update');
// deletes a post
Route::delete('/posts/{post}', PostController::class . '@destroy')-
>name('posts.destroy');

```

2. To connect the routes, open **app/Http/Controllers/PostController.php** and add the line below under the line use Illuminate\Support\Facades\Route;

```

use Illuminate\Support\Facades\Route;
use App\Http\Controllers\PostController;

```

The **routes/web.php** file should now look like this:

```

<?php
use Illuminate\Support\Facades\Route;
use App\Http\Controllers\PostController;
// returns the home page with all posts
Route::get('/', PostController::class . '@index')->name('posts.index');
// returns the form for adding a post
Route::get('/posts/create', PostController::class . '@create')-
>name('posts.create');
// adds a post to the database
Route::post('/posts', PostController::class . '@store')-
>name('posts.store');
// returns a page that shows a full post

```

```
Route::get('/posts/{post}', PostController::class .'@show')-
>name('posts.show');
// returns the form for editing a post
Route::get('/posts/{post}/edit', PostController::class .'@edit')-
>name('posts.edit');
// updates a post
Route::put('/posts/{post}', PostController::class .'@update')-
>name('posts.update');
// deletes a post
Route::delete('/posts/{post}', PostController::class .'@destroy')-
>name('posts.destroy');
```

## Generate Blade Files

Now that you have the routes, you can create the [Laravel Blade](#) files. Before using Artisan to generate the Blade files, create the `make:view` command, with which you can generate **blade.php** files.

1. Run the following code in the CLI to create a **MakeViewCommand** command file inside the **app/Console/Commands** folder:

```
php artisan make:command MakeViewCommand
```

2. Create a command for generating **.blade.php** files from the CLI by replacing the code in the **MakeViewCommand** file with the following:

```
<?php
namespace App\Console\Commands;
use Illuminate\Console\Command;
use File;
class MakeViewCommand extends Command
{
    /**
     * The name and signature of the console command.
     *
     * @var string
     */
    protected $signature = 'make:view {view}';
    /**
     * The console command description.
     */
}
```

```

*
* @var string
*/
protected $description = 'Create a new blade template.';
/**
 * Execute the console command.
 *
 * @return mixed
 */
public function handle()
{
    $view = $this->argument('view');
    $path = $this->viewPath($view);
    $this->createDir($path);
    if (File::exists($path))
    {
        $this->error("File {$path} already exists!");
        return;
    }
    File::put($path, $path);
    $this->info("File {$path} created.");
}
/**
 * Get the view full path.
 *
 * @param string $view
 *
 * @return string
 */
public function viewPath($view)
{
    $view = str_replace('.', '/', $view) . '.blade.php';
    $path = "resources/views/{$view}";
    return $path;
}
/**
 * Create a view directory if it does not exist.
 *
 * @param $path
 */

```



```

public function createDir($path)
{
    $dir = dirname($path);
    if (!file_exists($dir))
    {
        mkdir($dir, 0777, true);
    }
}
}

```

## Create a Homepage

Next, create your homepage. The homepage is the **index.blade.php** file, which lists all the posts.

1. To create the homepage, run:

```
php artisan make:view posts.index
```

This creates a **posts** folder inside the **/resources/views** folder and an **index.blade.php** file underneath it. The resulting path is **/resources/views/posts/index.blade.php**.

2. Add the following code inside the **index.blade.php** file:

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-
scale=1.0">
    <meta http-equiv="X-UA-Compatible" content="ie=edge">
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-
alpha1/dist/css/bootstrap.min.css" rel="stylesheet"
integrity="sha384-
GLh1TQ8iRABdZL1603oVMWSktQOp6b7In1Zl3/Jr59b6EGGoI1aFkw7cmDA6j6gD"
crossorigin="anonymous">
    <title>Posts</title>
</head>
<body>

```

```

<nav class="navbar navbar-expand-lg navbar-light bg-warning">
  <div class="container-fluid">
    <a class="navbar-brand h1" href={{ route('posts.index')}}>CRUDPosts</a>
    <div class="justify-end ">
      <div class="col ">
        <a class="btn btn-sm btn-success" href={{
route('posts.create')}}>Add Post</a>
      </div>
    </div>
  </div>
</nav>
<div class="container mt-5">
  <div class="row">
    @foreach ($posts as $post)
      <div class="col-sm">
        <div class="card">
          <div class="card-header">
            <h5 class="card-title">{{ $post->title }}</h5>
          </div>
          <div class="card-body">
            <p class="card-text">{{ $post->body }}</p>
          </div>
          <div class="card-footer">
            <div class="row">
              <div class="col-sm">
                <a href="{{ route('posts.edit', $post->id) }}"
class="btn btn-primary btn-sm">Edit</a>
              </div>
              <div class="col-sm">
                <form action="{{ route('posts.destroy', $post->id)
}}" method="post">
                  @csrf
                  @method('DELETE')
                  <button type="submit" class="btn btn-danger btn-
sm">Delete</button>
                </form>
              </div>
            </div>
          </div>
        </div>
      </div>
    </div>
  </div>

```

```

        </div>
    </div>
    @endforeach
</div>
</div>
</body>
</html>

```

The code above creates a simple HTML page that uses [Bootstrap](#) for styling. It establishes a navigation bar and a grid template that lists all the posts in the database with details and two action buttons — edit and delete — using the @foreach Blade helper.

The **Edit** button takes a user to the **Edit post** page, where they can edit the post. The **Delete** button deletes the post from the database using `{{ route('posts.destroy', $post->id) }}` with a DELETE method.

**Note:** The navbar code for all the files is the same as the previous file.

3. Create the **create.blade.php** page. The Blade file called **create** adds posts to the database. Use the following command to generate the file:

```
php artisan make:view posts.create
```

This generates a **create.blade.php** file inside the **/resources/views/posts** folder.

4. Add the following code to the **create.blade.php** file:

```

// same as the previous file. Add the following after the nav tag and
before the closing body tag.
<div class="container h-100 mt-5">
    <div class="row h-100 justify-content-center align-items-center">
        <div class="col-10 col-md-8 col-lg-6">
            <h3>Add a Post</h3>
            <form action="{{ route('posts.store') }}" method="post">
                @csrf
                <div class="form-group">
                    <label for="title">Title</label>

```

```

        <input type="text" class="form-control" id="title"
name="title" required>
    </div>
    <div class="form-group">
        <label for="body">Body</label>
        <textarea class="form-control" id="body" name="body"
rows="3" required></textarea>
    </div>
    <br>
    <button type="submit" class="btn btn-primary">Create
Post</button>
    </form>
</div>
</div>
</div>

```

The code above creates a form with `title` and `body` fields and a `submit` button for adding a post to the database through the `{{ route('posts.store') }}` action with a `POST` method.

5. Create the **Edit post** page to edit posts in the database. Use the following command to generate the file:

```
php artisan make:view posts.edit
```

This creates an **edit.blade.php** file inside the `/resources/views/posts` folder.

6. Add the following code to the **edit.blade.php** file:

```

<div class="container h-100 mt-5">
    <div class="row h-100 justify-content-center align-items-center">
        <div class="col-10 col-md-8 col-lg-6">
            <h3>Update Post</h3>
            <form action="{{ route('posts.update', $post->id) }}"
method="post">
                @csrf
                @method('PUT')
                <div class="form-group">
                    <label for="title">Title</label>

```

```

        <input type="text" class="form-control" id="title"
name="title"
        value="{{ $post->title }}" required>
    </div>
    <div class="form-group">
        <label for="body">Body</label>
        <textarea class="form-control" id="body" name="body"
rows="3" required>{{ $post->body }}</textarea>
    </div>
    <button type="submit" class="btn mt-3 btn-primary">Update
Post</button>
    </form>
</div>
</div>
</div>

```

The code above creates a form with title and body fields and a submit button for editing a post with the specified id in the database through the {{ route('posts.update') }} action with a PUT method.

7. Then, restart your application server using the code below:

```
php artisan serve
```

Visit <http://127.0.0.1:8000> on your browser to view your new blog. Click the **Add Post** button to add new posts.