### Set up a new Laravel project:

Open terminal or command prompt.

Navigate to the desired directory where you want to create the project.

Run the following command to create a new Laravel project:

composer create-project laravel/laravel my blog

#### Configure your database:

Open the .env file in the root directory of your project.

Update the DB\_CONNECTION, DB\_HOST, DB\_PORT, DB\_DATABASE, DB\_USERNAME, and DB\_PASSWORD values according to your database setup. Here I used my database name as my\_blog in DB\_DATABASE.

### Create the necessary database tables and models:

Run the following commands to generate migrations for the blog post and comment tables:

php artisan make:migration create\_posts\_table --create=posts

php artisan make:migration create\_comments\_table --create=comments

Open the generated migration files in the database/migrations directory and define the table schemas for the "posts" and "comments" tables.

Run the migrations to create the database tables:

php artisan migrate

Run the following commands to generate models for the "Post" and "Comment" tables:

php artisan make:model Post

php artisan make:model Comment

# Modifying {TimeStamp}\_create\_posts\_table and {TimeStamp}\_create\_comments\_table:

```
For create_posts_table:
```

```
<?php
use Illuminate\Database\Migrations\Migration;
use Illuminate\Database\Schema\Blueprint;
use Illuminate\Support\Facades\Schema;
return new class extends Migration
  * Run the migrations.
  */
  public function up(): void
  {
    Schema::create('posts', function (Blueprint $table) {
      $table->id();
      $table->string('title');
      $table->text('content');
      $table->timestamps();
    });
  }
```

```
For create_comments_table:
<?php
use Illuminate\Database\Migrations\Migration;
use Illuminate\Database\Schema\Blueprint;
use Illuminate\Support\Facades\Schema;
return new class extends Migration
  * Run the migrations.
  */
  public function up(): void
  {
    Schema::create('comments', function (Blueprint $table) {
      $table->id();
      $table->string('title');
      $table->text('content');
      $table->timestamps();
    });
  }
  /**
  * Reverse the migrations.
  */
```

```
public function down(): void
    Schema::dropIfExists('comments');
  }
};
Modifying models for the "Post" and "Comment" tables:
For "Post" table:
<?php
namespace App\Models;
use App\Models\Comment;
use Illuminate\Database\Eloquent\Model;
class Post extends Model
  protected $fillable = ['title', 'content'];
  public function comments()
  {
   return $this->hasMany(Comment::class);
```

```
For "Comment" table:
```

```
<?php
namespace App\Models;
use App\Models\Post;
use Illuminate\Database\Eloquent\Model;
class Comment extends Model
{
   protected $fillable = ['content'];
   public function post()
   {
      return $this->belongsTo(Post::class);
   }
}
```

### **Necessary routing:**

Open the routes/web.php file and define the necessary routes:

```
use App\Http\Controllers\PostController;
use App\Http\Controllers\CommentController;

Route::get('/posts', [PostController::class, 'index'])->name('posts.index');
Route::get('/posts/{id}', [PostController::class, 'show'])->name('posts.show');
Route::post('/comments', [CommentController::class, 'store'])->name('comments.store');
```

## **Create the corresponding controllers:**

Run the following commands to generate the controllers:

php artisan make:controller PostController

php artisan make:controller CommentController

## Modifying the controllers:

#### **PostController:**

```
namespace App\Http\Controllers;
use App\Post;
class PostController extends Controller
{
    public function index()
    {
        $posts = Post::all();
        return view('posts.index', compact('posts'));
    }
    public function show($id)
    {
        $post = Post::findOrFail($id);
        return view('posts.show', compact('post'));
    }
}
```

### **CommentController:**

```
namespace App\Http\Controllers;
use App\Comment;
class CommentController extends Controller
{
    public function store(Request $request)
    {
        $comment = new Comment();
        $comment->post_id = $request->post_id;
        $comment->content = $request->content;
        $comment->save();
        return redirect()->back();
    }
}
```

### **Creating the views using HTML, CSS, and Bootstrap:**

```
Create the following Blade view files in the resources/views directory:  \\
```

posts/index.blade.php: The blog post list view.

posts/show.blade.php: The blog post details view.

### Here's the code of the posts/index.blade.php view:

### Here's the code of the posts/show.blade.php view:

```
@extends('layouts.app')
@section('content')
 <h1>{{ $post->title }}</h1>
 {{ $post->content }}
  <h2>Comments</h2>
 @foreach ($post->comments as $comment)
    <div>
     {{ $comment->content }}
    </div>
  @endforeach
 <form action="{{ route('comments.store') }}" method="POST">
    @csrf
   <input type="hidden" name="post_id" value="{{ $post->id }}">
    <textarea name="content" placeholder="Write a comment"></textarea>
    <button type="submit">Submit</button>
 </form>
@endsection
```