Frontend (React.js):

import React, { useState, useEffect } from 'react';

import axios from 'axios';

const TodoApp = () => {

const [tasks, setTasks] = useState([]);

const [newTask, setNewTask] = useState('');

useEffect(() => {

// Fetch tasks from the backend when component mounts

fetchTasks();

}, []);

const fetchTasks = async () => {

try {

const response = await axios.get('/api/tasks');

setTasks(response.data);

} catch (error) {

console.error('Error fetching tasks:', error);

}

};

const addTask = async () => {

if (newTask.trim() === '') return;

try {

const response = await axios.post('/api/tasks', {

title: newTask,

completed: false,

});

setTasks([...tasks, response.data]);

setNewTask('');

} catch (error) {

console.error('Error adding task:', error);

}

};

const deleteTask = async (taskId) => {

try {

await axios.delete(`/api/tasks/${taskId}`);

setTasks(tasks.filter((task) => task.id !== taskId));

} catch (error) {

console.error('Error deleting task:', error);

}

};

const handleTaskChange = (event) => {

setNewTask(event.target.value);

};

return (

<div>

<h1>Simple To-Do List</h1>

<div>

<input

type="text"

value={newTask}

onChange={handleTaskChange}

placeholder="Enter new task"

/>

<button onClick={addTask}>Add Task</button>

</div>

<ul>

{tasks.map((task) => (

<li key={task.id}>

<span

style={{

textDecoration: task.completed ? 'line-through' : 'none',

}}

>

{task.title}

</span>

<button onClick={() => deleteTask(task.id)}>Delete</button>

</li>

))}

</ul>

</div>

);

};

export default TodoApp;

Backend (Laravel):

(database/migrations/yyyy\_mm\_dd\_create\_tasks\_table.php)

public function up()

{

Schema::create('tasks', function (Blueprint $table) {

$table->id();

$table->string('title');

$table->text('description')->nullable();

$table->boolean('completed')->default(false);

$table->timestamps();

});

}

php artisan make:controller TaskController –api

<?php

namespace App\Http\Controllers;

use App\Models\Task;

use Illuminate\Http\Request;

class TaskController extends Controller

{

public function index()

{

return Task::all();

}

public function store(Request $request)

{

$request->validate([

'title' => 'required|string|max:255',

]);

return Task::create($request->all());

}

public function update(Request $request, Task $task)

{

$task->update($request->all());

return $task;

}

public function destroy(Task $task)

{

$task->delete();

return response()->json(['message' => 'Task deleted']);

}

}

Define routeRoute::apiResource('tasks', 'App\Http\Controllers\TaskController');s for the API endpoints in routes/api.php: