**Pagination and Filtering**

**Update EventController@index**

public function index(Request $request)

{

$query = Event::query();

// Optional filters

if ($request->filled('country')) {

$query->where('country', $request->country);

}

if ($request->filled('date')) {

$query->whereDate('start\_time', $request->date);

}

if ($request->filled('search')) {

$query->where('name', 'like', '%' . $request->search . '%');

}

// Paginate with optional limit (default: 10)

$events = $query->paginate($request->get('per\_page', 10));

return response()->json($events);

}

Sample Request

GET /api/events?country=USA&search=tech&per\_page=5

Query Params

| **Parameter** | **Description** |
| --- | --- |
| country | Filter by country name |
| date | Filter by event date (Y-m-d) |
| search | Partial match on event name |
| per\_page | Number of results per page |
| page | Page number |

Example JSON Response

{

"current\_page": 1,

"data": [

{

"id": 1,

"name": "Tech Conference",

"country": "USA",

"start\_time": "2025-06-01T10:00:00",

"end\_time": "2025-06-01T17:00:00"

}

],

"first\_page\_url": "...",

"last\_page": 2,

"last\_page\_url": "...",

"next\_page\_url": "...",

"per\_page": 5,

"total": 6

}