

To implement pagination in CodeIgniter 3 for testing a REST API in Postman:

REST API pagination project in Codeigniter 3	
Controller	C:\xampp\htdocs\1_api\pgination_CI\application\controllers\UsersController.php
	<pre>&lt;?php defined('BASEPATH') OR exit('No direct script access allowed');  class UsersController extends CI_Controller {      public function __construct() {         parent::__construct();         // Load the model         \$this-&gt;load-&gt;model('UsersModel');     }      // Function to return paginated users for the view     public function viewPaginatedUsers() {         // Get pagination parameters from query string         \$limit = \$this-&gt;input-&gt;get('limit', TRUE) ?: 4; // default to 4         \$page = \$this-&gt;input-&gt;get('page', TRUE) ?: 1;    // default to page 1          \$offset = (\$page - 1) * \$limit;          // Get total number of users         \$total_users = \$this-&gt;UsersModel-&gt;getTotalUsersCount();          // Get paginated users         \$users = \$this-&gt;UsersModel-&gt;getPaginatedUsers(\$limit, \$offset);          // Prepare pagination metadata</pre>

To implement pagination in CodeIgniter 3 for testing a REST API in Postman:

```
$total_pages = ceil($total_users / $limit);
$current_page = (int)$page;

// Prepare data for the view
$data = array(
    'users' => $users,
    'current_page' => $current_page,
    'total_pages' => $total_pages
);

// Load the view
$this->load->view('users_view', $data);
}

// Function to return paginated users as JSON
public function getPaginatedUsers() {
    // Get pagination parameters from query string
    $limit = $this->input->get('limit', TRUE) ?: 4; // default to 4
    $page = $this->input->get('page', TRUE) ?: 1;    // default to page 1

    $offset = ($page - 1) * $limit;

    // Get total number of users
    $total_users = $this->UsersModel->getTotalUsersCount();

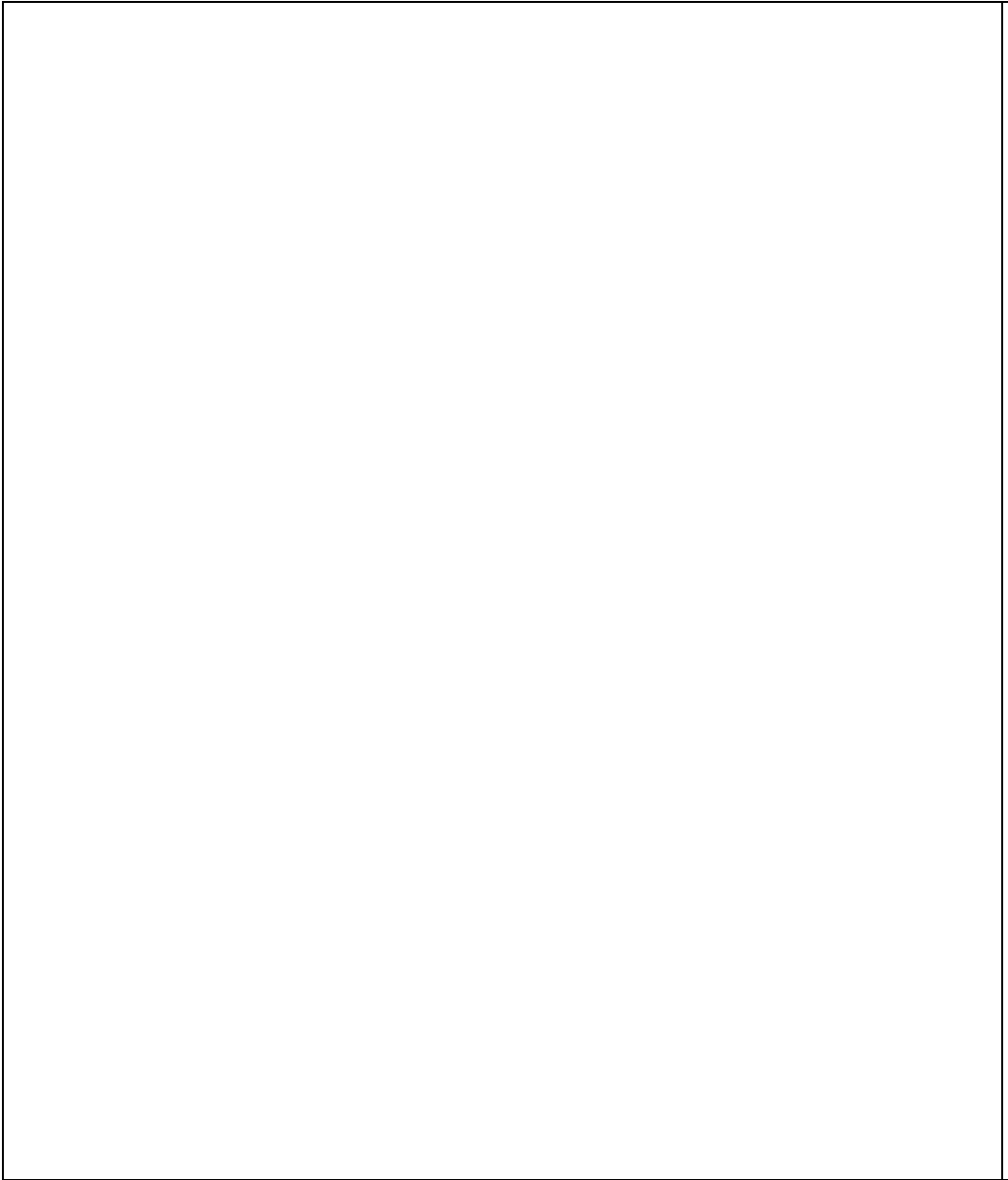
    // Get paginated users
    $users = $this->UsersModel->getPaginatedUsers($limit, $offset);

    // Prepare pagination metadata
    $total_pages = ceil($total_users / $limit);
    $current_page = (int)$page;
```

To implement pagination in CodeIgniter 3 for testing a REST API in Postman:

	<pre>// Prepare the response \$response = array(     'status' =&gt; true,     'total_users' =&gt; \$total_users,     'total_pages' =&gt; \$total_pages,     'current_page' =&gt; \$current_page,     'data' =&gt; \$users );  // Output the response in JSON format \$this-&gt;output     -&gt;set_content_type('application/json')     -&gt;set_output(json_encode(\$response)); } }</pre>
View part	C:\xampp\htdocs\1_api\pgination_CI\application\views\users_view.php
	<pre>&lt;!DOCTYPE html&gt; &lt;html lang="en"&gt; &lt;head&gt;     &lt;meta charset="UTF-8"&gt;     &lt;meta name="viewport" content="width=device-width, initial-scale=1.0"&gt;     &lt;title&gt;Paginated Users&lt;/title&gt;     &lt;style&gt;         table {             width: 50%;             margin: 20px auto;             border-collapse: collapse;         }         table, th, td {</pre>

To implement pagination in CodeIgniter 3 for testing a REST API in Postman:



```
        border: 1px solid black;
    }
    th, td {
        padding: 8px;
        text-align: center;
    }
</style>
</head>
<body>

    <h2 style="text-align:center;">Paginated Users</h2>

    <?php if (!empty($users)) : ?>
    <table>
        <thead>
            <tr>
                <th>User ID</th>
                <th>User Name</th>
                <th>Email</th>
            </tr>
        </thead>
        <tbody>
            <?php foreach ($users as $user) : ?>
            <tr>
                <td><?= $user['userId'] ?></td>
                <td><?= $user['userName'] ?></td>
                <td><?= $user['password'] ?></td>
            </tr>
            <?php endforeach; ?>
        </tbody>
    </table>
```

To implement pagination in CodeIgniter 3 for testing a REST API in Postman:

	<pre>&lt;div style="text-align:center;"&gt;     &lt;p&gt;Page &lt;?= \$current_page ?&gt; of &lt;?= \$total_pages ?&gt;&lt;/p&gt;      &lt;!-- Pagination Links --&gt;     &lt;a href="?page=&lt;?= \$current_page - 1 ?&gt;" &lt;?= \$current_page &lt;= 1 ? 'style="pointer-even grey;"' : '' ?&gt;&gt;Previous&lt;/a&gt;     &lt;a href="?page=&lt;?= \$current_page + 1 ?&gt;" &lt;?= \$current_page &gt;= \$total_pages ? 'style="p color: grey;"' : '' ?&gt;&gt;Next&lt;/a&gt; &lt;/div&gt;  &lt;?php else : ?&gt; &lt;p style="text-align:center;"&gt;No users found.&lt;/p&gt; &lt;?php endif; ?&gt;  &lt;/body&gt; &lt;/html&gt;</pre>
Model	C:\xampp\htdocs\1_api\pgination_CI\application\models\UsersModel.php
	<pre>&lt;?php defined('BASEPATH') OR exit('No direct script access allowed');  class UsersModel extends CI_Model {      public function getPaginatedUsers(\$limit, \$offset) {         // Fetch paginated data         \$query = \$this-&gt;db-&gt;select('userId, userName, password')             -&gt;limit(\$limit, \$offset)             -&gt;get('lfy_users');         return \$query-&gt;result_array();     } }</pre>

To implement pagination in CodeIgniter 3 for testing a REST API in Postman:

	<pre>public function getTotalUsersCount() {     // Get total number of users for pagination     return \$this-&gt;db-&gt;count_all('lfy_users'); } }</pre>
Route create	<pre>\$route['api/users'] = 'UsersController/getPaginatedUsers'; \$route['api/users/view'] = 'UsersController/viewPaginatedUsers';</pre>
Database create	<pre>\$active_group = 'default'; \$query_builder = TRUE;  \$db['default'] = array(     'dsn' =&gt; '',     'hostname' =&gt; 'localhost',     'username' =&gt; 'root',     'password' =&gt; '',     'database' =&gt; 'busbooking',     'dbdriver' =&gt; 'mysqli',     'dbprefix' =&gt; '',     'pconnect' =&gt; FALSE,     'db_debug' =&gt; (ENVIRONMENT !== 'production'),     'cache_on' =&gt; FALSE,     'cachedir' =&gt; '',     'char_set' =&gt; 'utf8',     'dbcollat' =&gt; 'utf8_general_ci',     'swap_pre' =&gt; '',     'encrypt' =&gt; FALSE,     'compress' =&gt; FALSE,     'stricton' =&gt; FALSE,</pre>

To implement pagination in CodeIgniter 3 for testing a REST API in Postman:

	<pre>'failover' =&gt; array(), 'save_queries' =&gt; TRUE );</pre>
Call the page	
Create database	<pre>-- phpMyAdmin SQL Dump -- version 5.2.1 -- https://www.phpmyadmin.net/ -- -- Host: 127.0.0.1 -- Generation Time: Sep 11, 2024 at 09:12 AM -- Server version: 10.4.28-MariaDB -- PHP Version: 8.0.28  SET SQL_MODE = "NO_AUTO_VALUE_ON_ZERO"; START TRANSACTION; SET time_zone = "+00:00";  /*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */; /*!40101 SET @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */; /*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */; /*!40101 SET NAMES utf8mb4 */;  -- -- Database: `busbooking` --  -- -- ----- --</pre>

To implement pagination in CodeIgniter 3 for testing a REST API in Postman:

```
-- Table structure for table `lfy_users`
--

CREATE TABLE `lfy_users` (
  `userId` int(11) NOT NULL,
  `userName` varchar(255) NOT NULL,
  `password` varchar(255) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_general_ci;

--
-- Dumping data for table `lfy_users`
--

INSERT INTO `lfy_users` (`userId`, `userName`, `password`) VALUES
(1, 'john_doe', 'password123'),
(2, 'jane_smith', 'pass1234'),
(3, 'mike_jones', 'mikepass'),
(4, 'emma_watson', 'emma456'),
(5, 'will_smith', 'will_pass'),
(6, 'julia_roberts', 'julia789'),
(7, 'tom_cruise', 'tom987'),
(8, 'kevin_durant', 'kdpass'),
(9, 'stephen_curry', 'curry123'),
(10, 'lebron_james', 'lebron789'),
(11, 'elon_musk', 'musk123'),
(12, 'bill_gates', 'billpass'),
(13, 'mark_zuckerberg', 'mark789'),
(14, 'sundar_pichai', 'google123'),
(15, 'tim_cook', 'applepass'),
(16, 'jeff_bezos', 'amazonpass'),
(17, 'warren_buffett', 'investor123'),
(18, 'larry_page', 'search456'),
```



To implement pagination in CodeIgniter 3 for testing a REST API in Postman:

	<pre>(19, 'sergey_brin', 'search789'), (20, 'jack_ma', 'alibaba123');  -- -- Indexes for dumped tables --  -- -- Indexes for table `lfy_users` -- ALTER TABLE `lfy_users`   ADD PRIMARY KEY (`userId`);  -- -- AUTO_INCREMENT for dumped tables --  -- -- AUTO_INCREMENT for table `lfy_users` -- ALTER TABLE `lfy_users`   MODIFY `userId` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=21; COMMIT;  /*!40101 SET CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT */; /*!40101 SET CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS */; /*!40101 SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION */;</pre>
Call the page	<a href="http://localhost/1_api/pgination_CI/index.php/api/users">http://localhost/1_api/pgination_CI/index.php/api/users</a>

To implement pagination in CodeIgniter 3 for testing a REST API in Postman:

	<pre>▼ {   "status": true,   "total_users": 20,   "total_pages": 5,   "current_page": 1,   ▼ "data": [     ▼ {       "userId": "1",       "userName": "john_doe",       "password": "password123"     },     ▼ {       "userId": "2",       "userName": "jane_smith",       "password": "pass1234"     },     ▼ {       "userId": "3",       "userName": "mike_jones",       "password": "mikepass"     },     ▼ {       "userId": "4",       "userName": "emma_watson",       "password": "emma456"     }   ] }</pre>

To implement pagination in CodeIgniter 3 for testing a REST API in Postman:

Call the view page	http://localhost/1_api/pgination_CI/index.php/api/users/view															
	<div><div>Paginated Users</div><table><tr><th>User ID</th><th>User Name</th><th>Email</th></tr><tr><td>1</td><td>john_doe</td><td>password123</td></tr><tr><td>2</td><td>jane_smith</td><td>pass1234</td></tr><tr><td>3</td><td>mike_jones</td><td>mikepass</td></tr><tr><td>4</td><td>emma_watson</td><td>emma456</td></tr></table><div>Page 1 of 5</div><div><a href="#">Previous</a> <a href="#">Next</a></div></div>	User ID	User Name	Email	1	john_doe	password123	2	jane_smith	pass1234	3	mike_jones	mikepass	4	emma_watson	emma456
User ID	User Name	Email														
1	john_doe	password123														
2	jane_smith	pass1234														
3	mike_jones	mikepass														
4	emma_watson	emma456														
Check through postman	<a href="http://localhost/ci3/index.php/userscontroller/getPaginatedUsers?limit=4&amp;page=1">http://localhost/ci3/index.php/userscontroller/getPaginatedUsers?limit=4&amp;page=1</a> <a href="http://localhost/1_api/pgination_CI/index.php/api/users?limit=4&amp;page=1">http://localhost/1_api/pgination_CI/index.php/api/users?limit=4&amp;page=1</a>															

To implement pagination in CodeIgniter 3 for testing a REST API in Postman:

GET

http://localhost/1\_api/pgination\_CI/index.php/api/users?limit=4&page=2

Params

Authorization

Headers (7)

Body

Pre-request Script

Tests

Settings

Query Params

	Key
<input checked="" type="checkbox"/>	limit
<input checked="" type="checkbox"/>	page
	Key

Body

Cookies

Headers (7)

Test Results

Pretty

Raw

Preview

JSON

4

5

6

7

8

9

10

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21

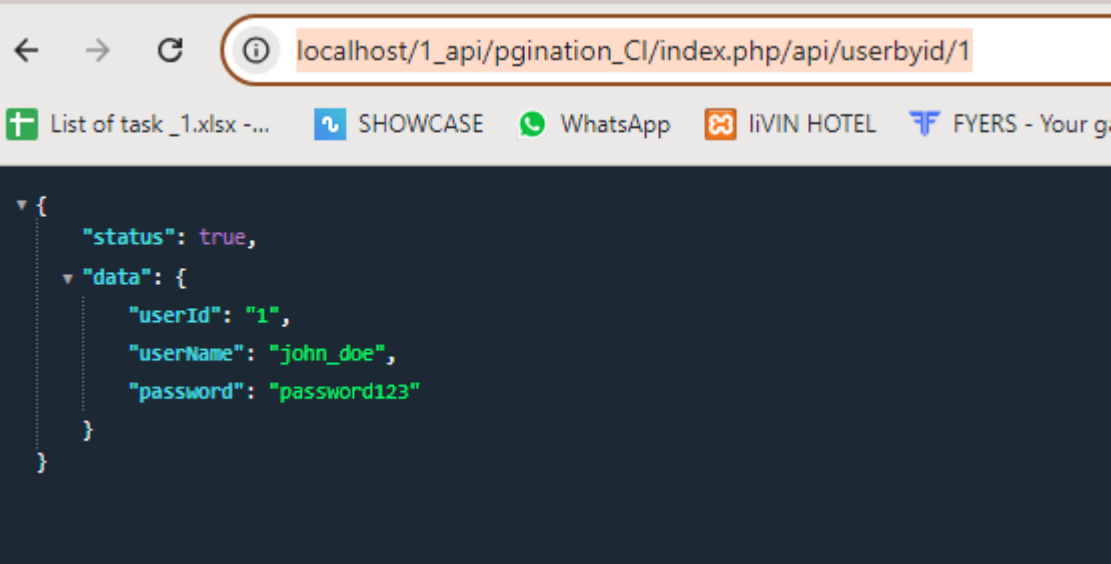
22

```
"total_pages": 5,
"current_page": 2,
"data": [
  {
    "userId": "5",
    "userName": "will_smith",
    "password": "will_pass"
  },
  {
    "userId": "6",
    "userName": "julia_roberts",
    "password": "julia789"
  },
  {
    "userId": "7",
    "userName": "tom_cruise",
    "password": "tom987"
  },
  {
```

To implement pagination in CodeIgniter 3 for testing a REST API in Postman:

	<p>To call a specific user ID, you need to set up a method in your <code>UserController</code> to handle requests for a specific user. Here's do it:</p>
<code>C:\xampp\htdocs\1_api\pgination_CI\application\controllers\UsersController.php</code>	<pre>public function getUserById(\$userId) {     // Load the model     \$this-&gt;load-&gt;model('UsersModel');      // Get the user data     \$user = \$this-&gt;UsersModel-&gt;getUserById(\$userId);      // Check if user exists     if (\$user) {         // Prepare the response         \$response = array(             'status' =&gt; true,             'data' =&gt; \$user         );     } else {         // User not found         \$response = array(             'status' =&gt; false,             'message' =&gt; 'User not found'         );     }      // Output the response in JSON format     \$this-&gt;output         -&gt;set_content_type('application/json')</pre>

To implement pagination in CodeIgniter 3 for testing a REST API in Postman:

	<pre>-&gt;set_output(json_encode(\$response)); }</pre>
C:\xampp\htdocs\1_api\pgination_CI\application\models\UsersModel.php	<pre>public function getUserById(\$userId) {     \$query = \$this-&gt;db-&gt;where('userId', \$userId)-&gt;get('lfy_users');     return \$query-&gt;row_array(); // Fetch a single row }</pre>
Route create	<pre>\$route['api/userbyid/(:num)'] = 'UsersController/getUserById/\$1';</pre>
Call the view page	<a href="http://localhost/1_api/pgination_CI/index.php/api/userbyid/1">http://localhost/1_api/pgination_CI/index.php/api/userbyid/1</a>
	
CALL THROUGH POSTMAN	<a href="http://localhost/1_api/pgination_CI/index.php/api/userbyid/10">http://localhost/1_api/pgination_CI/index.php/api/userbyid/10</a>

To implement pagination in CodeIgniter 3 for testing a REST API in Postman:

http://localhost/1\_api/pgination\_CI/index.php/api/userbyid/10

GET http://localhost/1\_api/pgination\_CI/index.php/api/userbyid/10

Params Authorization Headers (7) Body Pre-request Script Tests Set

Query Params

	Key
	Key

Body Cookies Headers (7) Test Results

Pretty Raw Preview JSON

```
1 {
2   "status": true,
3   "data": {
4     "userId": "10",
5     "userName": "lebron_james",
6     "password": "lebron789"
7   }
8 }
```

To implement pagination in CodeIgniter 3 for testing a REST API in Postman:

share data between two CodeIgniter projects using a REST API	
	<p><b>Step 1: Install CodeIgniter RESTful API Library</b></p> <p>You can use the <a href="#">CodeIgniter Rest Server</a> library to easily set up RESTful APIs. Download or clone it into your fi</p> <pre>bash Copy code git clone https://github.com/chriskacerguis/codeigniter-restserver.git</pre> <p>Place the files in your <code>application/libraries</code> directory.</p>
	<p>To share data between two CodeIgniter projects using a REST API, you'll need to:</p> <ol style="list-style-type: none"><li>1. <b>Set up one project as the API server</b> that exposes specific data.</li><li>2. <b>Access the API from the second project</b> by sending HTTP requests to the API server.</li></ol> <p>Here's a guide to help you set it up:</p> <hr/> <p><a href="#">1. Set Up the API Server (First CodeIgniter Project)</a></p> <p><b>Step 1: Install CodeIgniter RESTful API Library</b></p> <p>You can use the <a href="#">CodeIgniter Rest Server</a> library to easily set up RESTful APIs. Download or clone it into your fi</p> <pre>bash Copy code git clone https://github.com/chriskacerguis/codeigniter-restserver.git</pre>



To implement pagination in CodeIgniter 3 for testing a REST API in Postman:

	<p>Place the files in your <code>application/libraries</code> directory.</p> <p><b>Step 2: Create a Controller for the API</b></p> <p>Create an API controller that exposes the required data.</p> <pre>php Copy code &lt;?php defined('BASEPATH') OR exit('No direct script access allowed');  require APPPATH . '/libraries/REST_Controller.php';  class UsersAPI extends REST_Controller {      public function __construct() {         parent::__construct();         \$this-&gt;load-&gt;model('UsersModel');     }      // API to get all users     public function users_get() {         \$users = \$this-&gt;UsersModel-&gt;getAllUsers();         \$this-&gt;response(\$users, REST_Controller::HTTP_OK); // Send the data in JSON format     }      // API to get a user by ID     public function user_get(\$id) {         \$user = \$this-&gt;UsersModel-&gt;getUserById(\$id);          if (\$user) {             \$this-&gt;response(\$user, REST_Controller::HTTP_OK);         } else {             \$this-&gt;response(['status' =&gt; false, 'message' =&gt; 'User not found'],                 REST_Controller::HTTP_NOT_FOUND);         }     } }</pre>
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To implement pagination in CodeIgniter 3 for testing a REST API in Postman:

	<div><div>Step 3: Update Routing</div><div>Add the following routes to your application/config/routes.php file:</div><div><div>php</div><div>Copy code</div><div><pre>\$route['api/users'] = 'usersAPI/users'; \$route['api/users/(:num)'] = 'usersAPI/user/\$1';</pre></div></div><div><div>Step 4: Set Up the Model</div><div><div>php</div><div>Copy code</div><div><pre>class UsersModel extends CI_Model {      public function getAllUsers() {         \$query = \$this-&gt;db-&gt;get('users');         return \$query-&gt;result_array();     }      public function getUserById(\$id) {         \$query = \$this-&gt;db-&gt;get_where('users', ['userId' =&gt; \$id]);         return \$query-&gt;row_array();     } }</pre></div></div><div><div>Step 5: Test Your API</div><div>Your API is now available at:</div><div><ul style="list-style-type: none"><li>• <b>Get all users:</b> http://your-server/api/users</li><li>• <b>Get a specific user:</b> http://your-server/api/users/{id}</li></ul></div><div>Test these endpoints using Postman or curl.</div></div></div></div>
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To implement pagination in CodeIgniter 3 for testing a REST API in Postman:

	<div>2. Access the API from the Second Project (Second CodeIgniter Project)</div> <div>In the second project, you'll need to consume the API by making HTTP requests to the first project's API.</div> <div>Step 1: Create an API Client</div> <div>You can use cURL in CodeIgniter to make requests to the API.</div> <div><div>php</div><div>Copy code</div><div><pre>class ApiClient extends CI_Controller {      private \$apiUrl = 'http://first-server/api/'; // The API base URL of the first CodeIgniter project      // Function to get all users from the API     public function getUsers() {         \$url = \$this-&gt;apiUrl . 'users';          // Initialize cURL         \$curl = curl_init(\$url);         curl_setopt(\$curl, CURLOPT_RETURNTRANSFER, true);         \$response = curl_exec(\$curl);         curl_close(\$curl);          // Convert JSON response to an array         \$users = json_decode(\$response, true);          // Use the data as needed         print_r(\$users);     }      // Function to get a user by ID from the API     public function getUserById(\$id) {         \$url = \$this-&gt;apiUrl . 'users/' . \$id;          // Initialize cURL         \$curl = curl_init(\$url);</pre></div></div>
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To implement pagination in CodeIgniter 3 for testing a REST API in Postman:

	<pre>curl_setopt(\$curl, CURLOPT_RETURNTRANSFER, true); \$response = curl_exec(\$curl); curl_close(\$curl);  // Convert JSON response to an array \$user = json_decode(\$response, true);  // Use the data as needed print_r(\$user); }</pre> <p><b>Step 2: Add Routes for API Client</b></p> <p>In your second project, add the following routes in <code>application/config/routes.php</code>:</p> <pre>php Copy code \$route['api-client/users'] = 'ApiClient/getUsers'; \$route['api-client/users/(:num)'] = 'ApiClient/getUserById/\$1';</pre> <p><b>Step 3: Test API Calls</b></p> <p>In your second project, access the API using these URLs:</p> <ul style="list-style-type: none"><li>• <b>Get all users:</b> <code>http://your-second-server/api-client/users</code></li><li>• <b>Get a user by ID:</b> <code>http://your-second-server/api-client/users/{id}</code></li></ul> <hr/> <p>3. Summary</p> <ul style="list-style-type: none"><li>• The <b>first project</b> exposes data via a REST API using <code>UsersAPI</code> controller.</li><li>• The <b>second project</b> consumes this data using <code>ApiClient</code> controller by making HTTP requests to the first project's</li></ul> <p>This way, you can share data between two CodeIgniter projects through a REST API.</p>
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To implement pagination in CodeIgniter 3 for testing a REST API in Postman:

[illegible]