

Lab 3.3: Use XWiki REST API

Objective:

In this lab, you will use **Postman** to call XWiki's REST API and retrieve a list of pages from a space. You will then parse the **JSON response** to extract and display **page titles**.

By the end of this lab, you will:

- Understand the structure of the XWiki REST API
- Use Postman to authenticate and make GET requests
- Parse JSON to extract relevant data (page titles)

Step-by-Step Instructions

1. Prerequisites

- XWiki is running locally or on a server (e.g., `http://localhost:8080/xwiki`)
- Admin account credentials (or any account with API access)
- Postman installed
- REST API is enabled in XWiki (enabled by default)

2. Understand the API Endpoint

We will use this endpoint to list pages in the **Main** space:

```
swift  
GET /xwiki/rest/wikis/xwiki/spaces/Main/pages
```

Full URL example:

```
ruby  
http://localhost:8080/xwiki/rest/wikis/xwiki/spaces/Main/pages
```

3. Make a GET Request in Postman

3.1. Open Postman and Create a New Request

- Method: **GET**
- URL:

```
ruby
```

`http://localhost:8080/xwiki/rest/wikis/xwiki/spaces/Main/pages`

3.2. Set Authentication

- Go to the **Authorization** tab
- Type: **Basic Auth**
- Username: Admin
- Password: `your_admin_password`

3.3. Set Headers (Optional for Accept)

- Go to the **Headers** tab
- Add:

`makefile`

Key: `Accept`
Value: `application/json`

 By default, XWiki returns XML. To request JSON, you must explicitly ask for it.

3.4. Send the Request

- Click **Send**
- If successful, you will receive a **JSON response** containing metadata and a list of pages.

4. Parse the JSON Response

You will get a structure like:

```
json

{
  "pageSummaries": [
    {
      "id": "http://localhost:8080/xwiki/rest/wikis/xwiki/spaces/Main/pages/WebHome",
      "title": "WebHome",
      "space": "Main",
      ...
    },
    {
      "id": "http://localhost:8080/xwiki/rest/wikis/xwiki/spaces/Main/pages/About",
      "title": "About",
      ...
    }
  ]
}
```

[4.1. Use Postman's Visualizer \(Optional\)](#)

- In the **Tests** tab of your request, paste:

```
javascript
```

```
let data = pm.response.json();
let output = "<h3>Page Titles in Main Space:</h3><ul>";
data.pageSummaries.forEach(function(page) {
    output += "<li>" + page.title + "</li>";
});
output += "</ul>";
pm.visualizer.set(output);
```

- Run the request again and go to the **Visualizer tab** to see the list.

[4.2. Alternatively, use Console Log \(for JSON\):](#)

- In the **Tests** tab, you can also add:

```
javascript
```

```
let data = pm.response.json();
console.log("Page Titles:");
data.pageSummaries.forEach(p => console.log(p.title));
```

Open Postman Console (View → Show Postman Console) to view output.

[Lab Summary](#)

In this lab, you have:

- Connected to the XWiki REST API using Postman
 - Authenticated with Basic Auth
 - Parsed a JSON response to extract page titles from a space
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[Optional Extensions](#)

- List pages from a **different space** by changing `Main` to `Sandbox` or another custom space
 - Try creating a page using the **POST** method
 - Filter pages using query parameters (e.g., pagination)
 - Export response data from Postman
-

 Common Errors & Fixes

Issue	Fix
401 Unauthorized	Check your username/password; ensure account has view rights
Response is XML	Add <code>Accept: application/json</code> header
Empty result	Ensure the space (<code>Main</code>) has pages
Timeout / Server error	Ensure XWiki is running and accessible at the given URL