API Session – Chapter 14

- XML API Response & Collection Run -

# XML API Response

<https://petstore.swagger.io/>

**Parse the XML response:** Use a library like xml2js to convert the XML response into a JavaScript object.

**Define your validation criteria:** Determine the specific conditions you want to check, such as the presence of certain elements, attribute values, or data types.

**Write your assertions:** Use Postman's pm.test() function and JavaScript's assertion libraries (like chai) to compare the parsed XML data against your validation criteria.

**Pre Script**

const random\_num = Math.floor(Math.random() \* 1000 + 1);

var random\_str = Math.random().toString(36).substring(3);

**Post Script**

var xml2js = require('xml2js');

pm.test("XML response contains expected element", () => {

const xmlData = xml2js.parseString(pm.response.text(), (err, result) => {

if (err) {

pm.test("XML parsing error", () => {

pm.expect(err).to.be.null;

});

} else {

pm.expect(result.rootElement.expectedElement).to.exist;

}

});

});

# Collection Run Using Newman

To install newman and newman-reporter-html, follow these steps:

## 1. **Install Node.js and npm**

Before installing newman, ensure you have Node.js and npm (Node Package Manager) installed. You can download and install them from [Node.js official website](https://nodejs.org/).

## 2. **Install Newman**

Newman is Postman’s command-line tool used to run Postman collections. To install it globally using npm, open your terminal or command prompt and run:

**npm install -g newman**

The -g flag installs newman globally, making it accessible from anywhere on your system.

## 3. **Install Newman Reporter HTML**

Newman Reporter HTML is a plugin for generating HTML reports from Newman. Install it globally using npm:

**npm install -g newman-reporter-html**

## 4. **Verify Installation**

To confirm that both Newman and the HTML reporter have been installed correctly, you can check their versions:

* **Check Newman Version**: newman -v
* **Check Newman Reporter HTML**: newman-reporter-html -v

If these commands return version numbers, the installation was successful.

## 5. **Run Newman with HTML Reporter**

To use Newman with the HTML reporter, you can run your Postman collection and specify the reporter. Here’s an example command:

**newman run <your-collection-file.json> -r html**

Replace <your-collection-file.json> with the path to your Postman collection file. This command tells Newman to execute the collection and generate an HTML report.

## 6. **Locate the HTML Report**

By default, the HTML report is saved in the current directory under a file named newman-report.html. You can specify a different output file name and location using the --reporter-html-export option:

**newman run <your-collection-file.json> -r html --reporter-html-export <path-to-your-report.html>**

Replace <path-to-your-report.html> with your desired file path and name.

# Share Collection and Run Via Newman

## Generate Collection Access Key

* Open your Postman app.
* Navigate to the collection you want to share.
* Click on the three dots next to the collection name.
* Select "Share".
* Choose "Via API".
* Click "Generate New Key". This will create a read-only collection access key.

## Obtain the API Endpoint

* The API endpoint is typically provided in Postman's documentation or can be found online. It usually follows a similar format:
* https://api.getpostman.com/collections/<collection\_id>
* Replace <**collection\_id**> with the actual ID of your collection. You can find this ID in the collection's details.
* You can share this URL to anyone so that they can execute your collection on their system.

## Run the Endpoint in Newman

To use Newman, you can run your Postman collection and specify the reporter. Here’s an example command:

**newman run <collectionLink > -r html**