

### **Postman Fundamentals**

PRESENTED BY

Johnny Tu



# Welcome & Introductions



#### **Instructor: Johnny Tu**

- Training Manager
- Content author
  - Docker
  - NGINX
  - Postman



#### Housekeeping



#### **Duration**

- 3 hours
- 10 minute break every hour
- Ask questions anytime



#### **Format**

- Slides
- Demonstrations
- Exercises



#### **Teleconference**

- Please mute when possible
- Stay on the line during break
- Please use headset and microphone



#### **Course Prerequisites**

#### If you do not have Postman installed already:

- 1. Go to <a href="https://www.getpostman.com/apps">https://www.getpostman.com/apps</a>, download and install the app.
- 2. If you do not have a Postman account, sign up for a free account.
- 3. Open the Postman desktop application and make sure you are signed into your account.

#### **OpenWeather API account is needed for later exercises:**

- 1. Go to <a href="https://home.openweathermap.org/users/sign\_up">https://home.openweathermap.org/users/sign\_up</a> and register for a free account.
- 2. Sign in to your newly registered account.
- 3. Click the **API Keys** tab and verify that an API key was created.



### Agenda

- 1. Postman Concepts & Postman UI
- 2. Creating & Sending API Requests
- 3. Organizing Requests into Postman Collections
- 4. Configuring Postman Variables & Environments
- 5. Performing Basic API Testing with JavaScript
- 6. Collaborating through Postman Workspaces



## Module 1 Postman Concepts & User Interface



#### **Module Objectives**

## After completing this module, you will be able to:

- Describe Postman Concepts

   including: Requests, Collections,

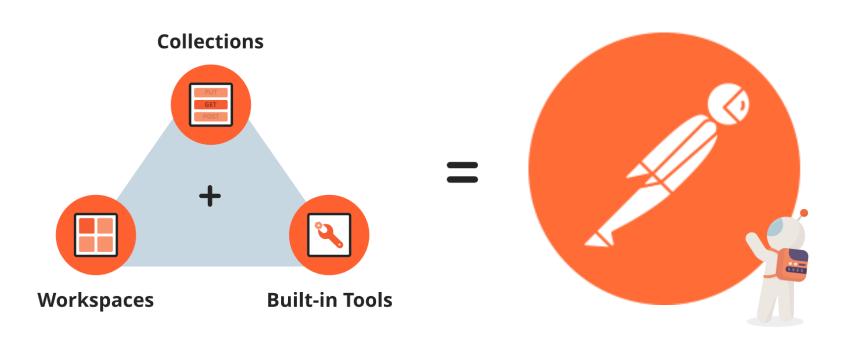
   Variables, Environments, and
   Workspaces
- Describe Postman User Interface (UI)
- Locate Postman UI components including: Request Builder, Sidebar, and Header



### **Postman Concepts**

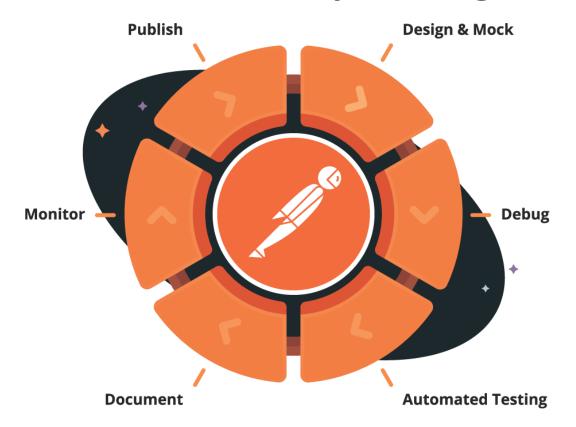


### **Collaborative API Development Environment**





#### **Collaborate Across API Lifecycle Using Postman Tools**





#### Requests

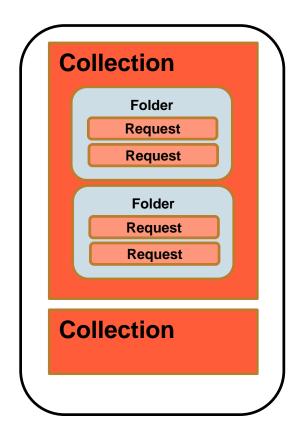
- A Request is a core function in Postman
- Send a HTTP Request to an API endpoint and perform some action
- Support for all HTTP methods (GET, POST, PUT, DELETE, etc.)
- Postman displays the results of the request in the UI
- Can be saved for re-use in future





#### Collections

- A Collection is a group of saved requests
- Requests in a Collection can be further organized into Folders
- Reasons to use Collections:
  - Organization
  - Documentation
  - Test Suites
  - Conditional Workflows





#### **Variables**

- Variables allow for re-use of values to avoid repetition
- Change value in one place
- Can be used in the Request Builder and in scripts
- Variable values can be defined globally, in a collection or in an Environment
- Configure different Environments for the same Request





#### **Environments**

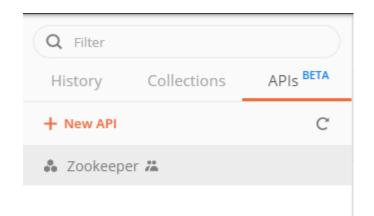
- An Environment is a set of key-value pairs
- Each key represents a Variable that can be used somewhere in a Request
- Allows easy switching between setups without having to change the Request





#### **APIs**

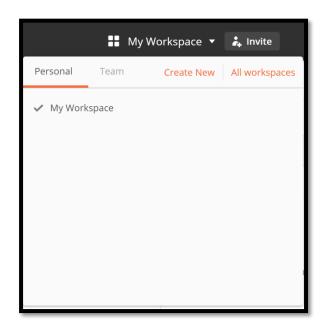
- Postman's API feature allows you to design and develop APIs in your workspace
- Define or import an API schema in Postman
- Version control of APIs
- Generate collections from an API or link an existing collection to an API version





#### Workspaces

- A Workspace is a view of Postman Collections,
   Environments, etc.
- Provides another layer of organizing your work
- Team vs Personal Workspaces
- Collections can be shared across Workspaces
- Team Workspaces enhances collaboration

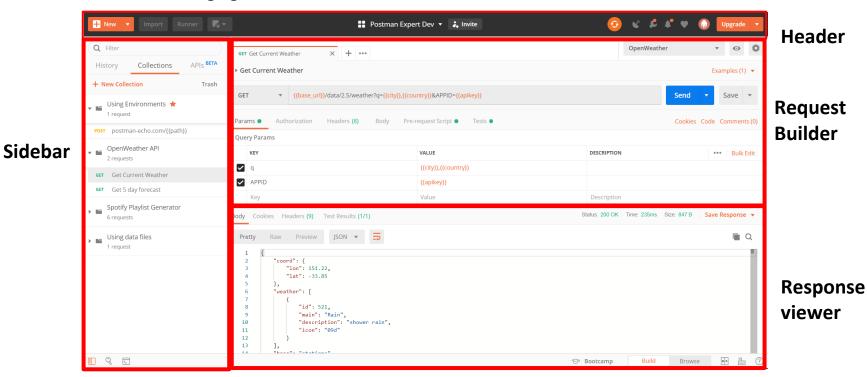




#### Postman User Interface



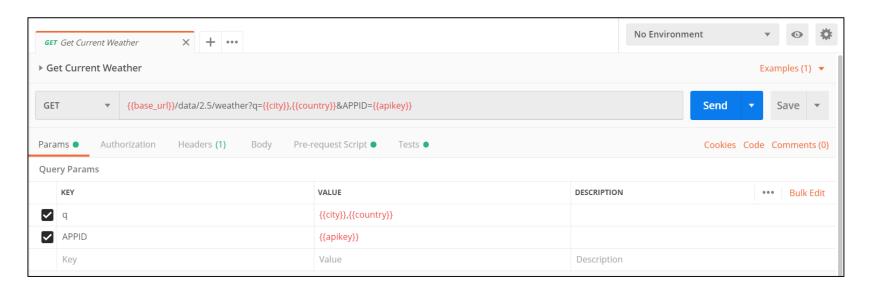
### **Postman Application UI**





#### **Request Builder**

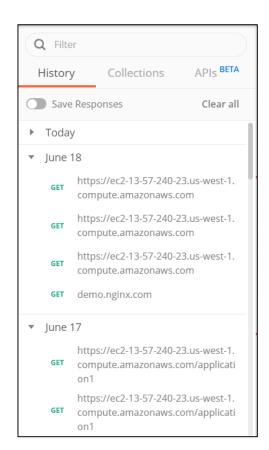
• The **Request Builder** contains all the elements needed to build a request





#### Sidebar

- Contains the **History** of previous requests, the list of Collections and APIs
- Can be collapsed and expanded





#### Module Review

#### **Key Points**:

- Requests are used to test API endpoints
- Collections help to organize requests
- Variables and Environments allow reuse of values
- Application UI main elements include the Request Builder and Sidebar



## Module 2 Creating & Sending API Requests



#### **Module Objectives**

## After completing this module, you will be able to:

- Create a request
- Describe headers and parameters
- View a response
- Create/ Send GET requests
- Create/ Send POST requests
- Input API Authorization credentials



### **Creating Requests**



#### **Creating a Request**

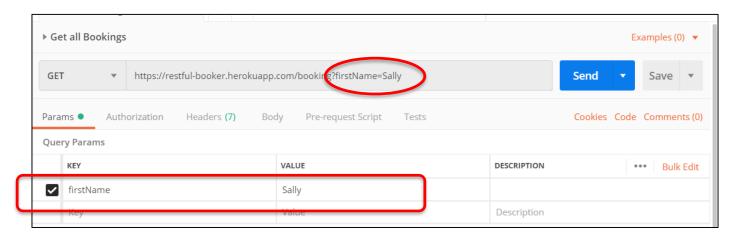
- Select HTTP method.
- Enter URL and press Send.
- Edit request body.
- Add request Headers.
- Edit Parameters.





#### **Headers & Parameters**

- Key value pairs are used to define the HTTP request Headers
- Auto-complete function when entering Headers
- Temporary headers are auto generated for every request
- Parameters can be entered in the request URI or in its own key value editor





#### **Viewing Response**

- Response body can be displayed in different formats
- Find feature to look for specific strings
- HTML responses can be previewed but without CSS rendering

```
Time: 289 ms
                                                                                                                                            Size: 415 B
         Cookies
                                                                                                               Status: 200 OK
Body
                     Headers (8)
                                     Test Results
  Prettv
            Raw
                    Preview
   1 + {
            "firstname": "Susan",
            "lastname": "Jones",
            "totalprice": 747,
            "depositpaid": true,
            "bookingdates": {
                "checkin": "2017-10-20",
                "checkout": "2018-03-09"
  10
            "additionalneeds": "Breakfast"
  11
```



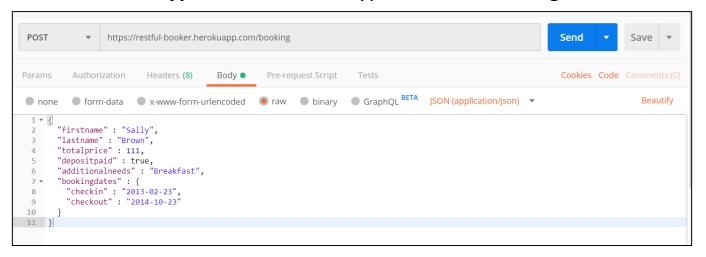
#### **EX2.1** – Create a GET Request

- 1. In the Request Builder, enter the **URL** .
  - https://restful-booker.herokuapp.com/booking
- Select GET as the HTTP method, then press the Send button.
- 3. Check the response body. What do you see?
- 4. Now try the URL <a href="https://www.getpostman.com">https://www.getpostman.com</a> and press **Send.**
- 5. What do you notice in the response body?
- 6. Click on the **Preview** tab on the response and check the HTML render.



#### **POST Request**

- For POST requests, data sent to API is defined in the request body as:
  - Form data
  - Raw text, JSON, XML, etc.
- Set the Content-Type Header to the type of content being sent to the server.





#### EX2.2 – Create a POST Request

- In the Request Builder, enter the URL https://restfulbooker.herokuapp.com/booking
- 2. Select **POST** as the method.
- 3. Click on the **Body** tab, select the **Raw** option and type in the JSON string shown on the right
- 4. Select JSON on the dropdown list and check that this has added the Content-Type header on the Headers tab
- 5. Press **Send**.

```
"firstname" : "Sally",
"lastname" : "Brown",
"totalprice": 111,
"depositpaid" : true,
"additionalneeds": "Breakfast",
"bookingdates" : {
  "checkin": "2013-02-23",
  "checkout": "2014-10-23"
```



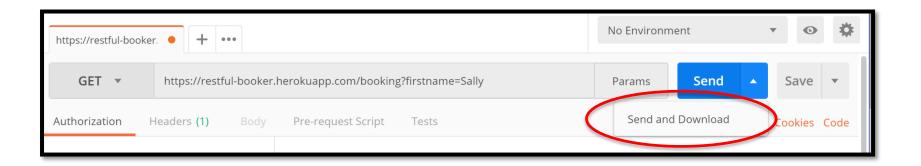
#### EX2.2 – Create a POST Request (cont'd)

- 6. Check the response body and make note of the "bookingid" attribute.
- 7. Change the request method to **GET** and click **Params** to open the key value editor for request Parameters.
- 8. Enter the key "firstname" with value "Sally".
- Press Send.
- 10. The result should display the "bookingid" observed in Step 6, along with additional bookingids .



#### **Send & Download**

- Allows you to save the response to a file
- Useful if the service returns a response that is not JSON, HTML or text. e.g.
  - Image file
  - Audio and video files

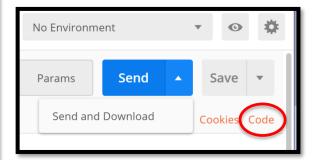




#### **Generate Request Code Snippets**

- Convert a request into a Code Snippet to aid application development
- Support for 15 languages and various libraries with certain languages

```
GENERATE CODE SNIPPETS
 lava OK HTTP ▼
       OkHttpClient client = new OkHttpClient():
       MediaType mediaType = MediaType.parse("application/json");
       RequestBody body = RequestBody.create(mediaType, "{\r\n\t\"firstname\" : \"Sally\"
            .\r\n\t\"lastname\" : \"Brown\".\r\n\t\"totalprice\" : 111.\r\n\t\"depositpaid\" : true
           ,\r\n\t\"additionalneeds\" : \"Breakfast\",\r\n\t\"bookingdates\" : {\r\n\t\\"checkin\" :
           \"2013-02-23\",\r\n\t\t\"checkout\" : \"2014-10-23\"\r\n\t}\r\n}");
       Request request = new Request.Builder()
         .url("https://restful-booker.herokuapp.com/booking")
          .post(body)
         .addHeader("Content-Type", "application/json")
         .addHeader("Cache-Control", "no-cache")
         .addHeader("Postman-Token", "09620a93-75c9-41a2-a2d7-9dcf1f519565")
   11
         .build();
   12
       Response response = client.newCall(request).execute();
```





#### **DEMO**

## **Generate Request Code Snippets**



## **Inputting API Authorization Credentials**



#### **API Authorization Methods**

- Production APIs don't let just anyone make a request
- Authentication credentials need to be supplied in order for an API to determine what resources you can access
- Postman app contains authorization helpers to simplify the process of supplying your API credentials





### **API Authorization Methods (cont'd)**

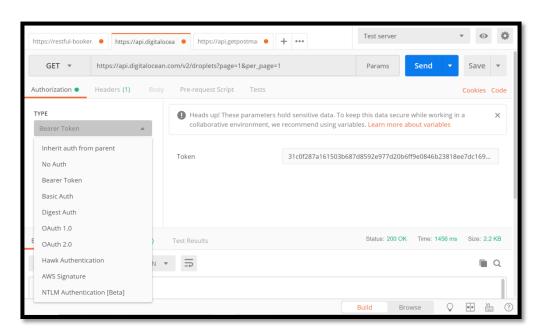
- Many Authentication methods are supported by Authorization helpers such as:
  - OAuth
  - Basic Auth
  - Bearer Token
  - Digest
  - AWS Signature
  - More ...



#### **API Authorization Methods (cont'd)**

Full details for each Authentication method at:

https://www.getpostman.com/docs/v6/postman/sending\_api\_requests/authorization





#### **Authorization Header**

- Credentials specified in the Authorization helper are converted into temporary request headers
- Some APIs require a custom Authorization Header or query string parameter
  - Example: Postman API
     (https://api.getpostman.com/collections?apikey=96d02f....)

▼ Temporary Headers (1) •			
	KEY	VALUE	
	Authorization	Bearer as234erpo98naesui	



# **DEMO**

#### **API Authorization**



# **EX2.3 – Authorize API Request**

- Login to your OpenWeatherMap account on the web browser.
   (<a href="https://home.openweathermap.org/users/sign\_in">https://home.openweathermap.org/users/sign\_in</a>)
- Click on the API Key tab in your account profile and copy the API key to the clipboard
- 3. Switch to the Postman desktop app and create a new request with the request URL api.openweathermap.org/data/2.5/weather?q=Sydney&APPID=<your api key>
- 4. Send the request and observe the response.



#### **Module Review**

#### **Key Points:**

- Use Request Builder to define request headers, parameters, body, etc.
- Use Authorization helper to specify
   API credentials
- View formatted JSON responses
- Binary responses can be downloaded
- Option to generate request code
   snippet for application development



# Module 3: Organizing Requests into Postman Collections



#### **Module Objectives**

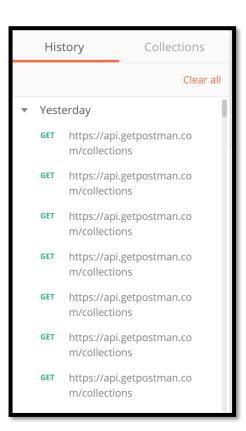
After completing this module, you will be able to:

- Describe request History
- Create a Collection
- Save requests into a Collection
- Describe Collection Authorization
- Describe Collection use cases
- Organize request Collections in Folders
- Perform other Collection operations
- Export and Import Collections



#### **Request History**

- Sent requests are recorded in the request History
- No cohesive organization
- Difficult to find a certain request
- Use Collections for better organization





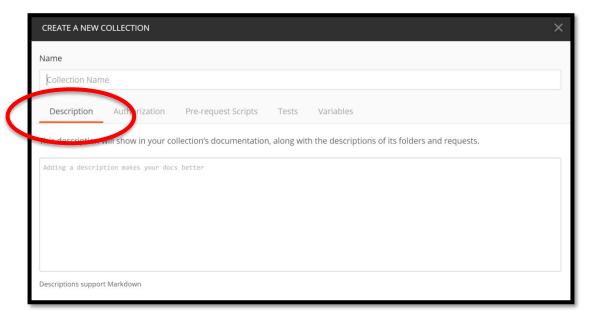
# **Using Collections**

- Most of Postman's features depend on Collections:
  - Mocks
  - Tests
  - Documentation
  - Collaboration through Workspaces
  - Monitoring



# **Creating a Collection**

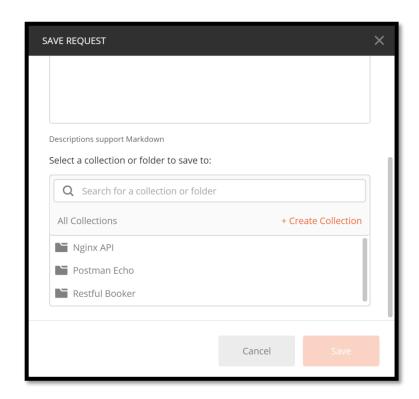
- Collections can be created from scratch or when saving a request
- Write a good description for your Collection for documentation purposes





# **Saving a Request**

- Requests can be saved into an existing Collection
- Can create a new Collection in the process of saving a request
- Request description helps make documentation look better





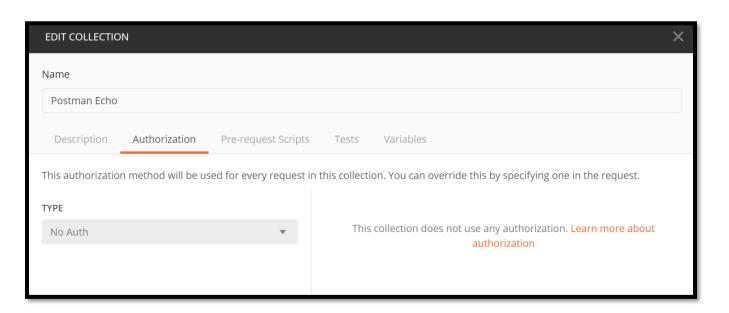
#### EX3.1 – Create a Collection

- 1. Click on the **Collection** tab on the sidebar.
- 2. Click **New Collection** to bring up the Create Collection screen.
- 3. Type in **Restful Booker** in the **Collection Name** field.
- 4. Click the **Create** button.
- 5. Click the **History** tab and look for your previous GET request to the endpoint <a href="https://restful-booker.herokuapp.com/booking">https://restful-booker.herokuapp.com/booking</a>.
- 6. Save the request to the newly created **Restful Booker** Collection with the following details:
  - Name: Get all Bookings
  - Description: Get a list of all bookings



#### **Collection Authorization**

- Defines an Authorization method to be used for every request in the Collection
- Individual requests can still have their own independent authorization details





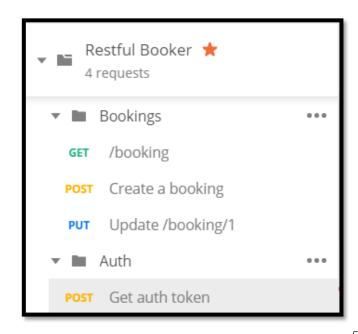
#### **Collection Use Cases**

- Organize your APIs into Collections
- Single API = Single Collection
- Larger Collections should be split into multiple Collections or organized with Folders



# **Organizing with Folders**

- Requests in a Collection can be grouped into Folders
- Group of requests which can be run individually, sequentially or conditionally
- Logical way to organize Collections would be to base them on:
  - Related endpoints
  - Steps in a process
  - Common authorization
  - Request method
- Each Folder can have a common Authorization configuration for all requests





#### **EX3.2 – Create Folders**

- 1. Create two Folders called **Bookings** and **Auth** in the **Restful Booker** Collection.
- 2. Move the **Get All Bookings** request into the Bookings Folder.
- Use the History tab to find the POST request that was created earlier in the course.
- 4. Save the request to your Restful Booker Collection under the Bookings Folder.
  Give it the name Create New Booking



#### EX3.2 - (cont'd)

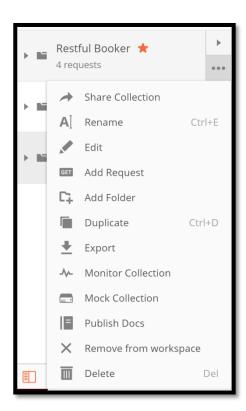
- Create a new POST request to the end point https://restfulbooker.herokuapp.com/auth
- 6. Use the **Raw** option to configure the request body as shown on the right.
- 7. Send the request and verify that you received a string token as the response.
- 8. Save the request to the "Auth" folder in your Restful Booker Collection. Give it the name Get Auth Token

```
"username": "admin",
"password": "password123"
```



# **Other Collection Operations**

- Delete sends the Collection to the trash area of your account
- Favourite Collections to move them to the top of the list
- Filter searches for a particular request
- Add scripts for dynamic behaviour
- Run the Collection to test the whole API
- Export and Import





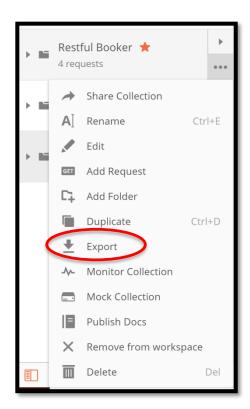
#### **DEMO**

# **Performing Other Collection Operations**



### **Exporting & Importing Collections**

- Exports a Collection into a JSON file
- File contains all data and metadata needed to Import a Collection
- Simple way to share a Collection
- For a more detailed dive into the different data formats, see
  - http://blog.getpostman.com/2015/06/05/travelogue-of-postman-collection-format-v2





#### **Module Review**

#### **Key Points:**

- Collections help organize requests to each API
- Folders provide further level of breakdown of requests in a Collection
- Can define common request
   authorization credentials at Folder and
   Collection level
- Collections can be exported and imported



# Module 4 Configuring Postman Variables & Environments



# **Module Objectives**

After completing this module, you will be able to:

- Describe different levels of scope for Variables
- Describe where Variables can be used
- Configure Postman Variables
- Configure Postman Environments
- Describe best practices for using Environments
- Describe the benefits of Variables
- Describe Global Variables



# **Configuring Postman Variables**



# **Levels of Scope for Variables**

- Global this Variable has a value within a particular Workspace
- Collection this Variable is specific to an individual Collection
- **Environment** provides portable scope for Variables
- Local is used during the execution of scripts
- Data is used with Collection runner



# Levels of Scope for Variables (cont'd)

global					
	colle	ection			
		enviro	nment		
			local		



#### **Variables**

- Variables can be used in most areas of the Postman Request Builder that uses text:
  - URL
  - Parameters
  - Header values
  - Form data / url-encoded values
  - Raw body content
- Syntax: {{variable\_name}}

```
GET 

{{base_url}}/data/{{api_version}}/weather?q={{city}}...
```



#### **EX4.1 – Define Variables**

- 1. Use the history view and open the OpenWeather API request that was created in exercise 3.3
- Save the request into a new Collection called OpenWeather API. Name the request Get
   Weather by City
- 3. Replace the "api.openweathermap.org" portion of the URL with **{{base\_url}}**
- 4. Replace the "2.5" portion of the URL with **{{api\_version}}**
- 5. Replace "Sydney" with **{{city}}**}
- 6. Replace the part where you specify your API key with {{api\_key}}
- 7. The final request URL should be {{base\_url}}/data/{{api\_version}}/weather?q={{city}}&APPID={{api\_key}}
- 8. Save the request



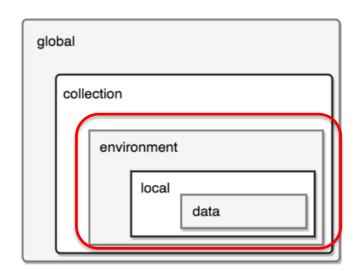
# **Configuring Postman Environments**



#### **Environments**

- An Environment is a portable scope for Variables
- Environments can be shared, synced, and exported
- Data in an Environment is secured
- Environments are ideal for data that needs to be moved around







#### **Session Variables**

- Sessions provide a way to store variable values that are unique to every
   Postman user and stays local to that users instance of Postman
- Applies to Global, Collection and Environment variables
- Sessions are useful when sharing an Environment or Collection with Variables that contain sensitive data
- Enables users working on a shared Collection within a team to make requests using their own variable values without overwriting the original Environment value



#### **Defining Session Variables**

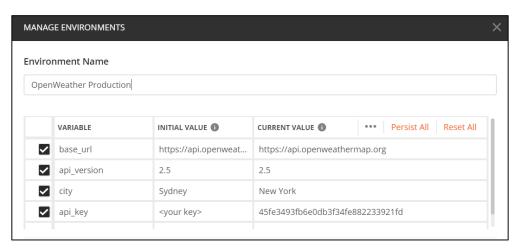
- A variable's **INITIAL VALUE** will sync across the team workspace, collection or environment
- Use placeholder text on the INITIAL VALUE to avoid giving away sensitive data
- Users then set the variable value using the CURRENT VALUE field
- The CURRENT VALUE remains local to your instance of Postman
- The CURRENT VALUE can be persisted; this will replace the INITIAL VALUE with the CURRENT
   VALUE for that workspace, collection or environment





### **Defining Environment Variables**

- Initial value is shared with your team if you share the Environment
- Current value is used when sending a request and can be changed for each request
- Persist option to replace initial value with current value



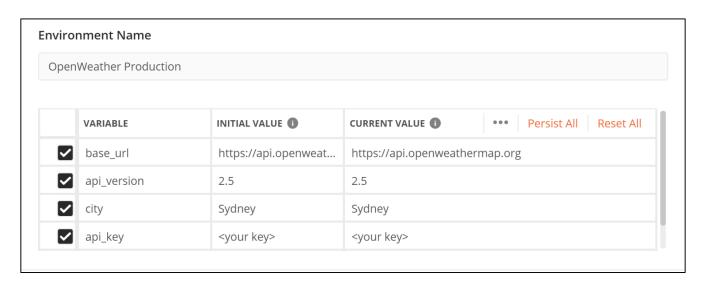


#### **EX4.2 – Create an Environment**

1. Click the Manage Environments button.



- Add a new Environment called OpenWeather Production.
- Define four Variables as shown.





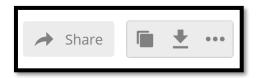
# EX4.2 - (cont'd)

- Click **Update** to update the Environment.
- 5. Select your newly created **OpenWeather Production** environment in the Environment drop-down list of the Request Builder.
- 6. Click the **Environment Quick Look** button.
- 7. Input your OpenWeather API key into the "current value" of the api\_key variable.
- 8. Send the **Get Weather by City** request and observe the response.
- 9. Change the value of the city variable to "Perth" and send the request again.
  You should see differences in the response data.



## EX4.2 - (cont'd)

10. Click the **Manage Environments** button and duplicate the **OpenWeather Production** Environment.



- 11. You should now see a new Environment called **OpenWeather Production Copy**. Click on this Environment.
- 12. Change name of the Environment to **OpenWeather Staging**.

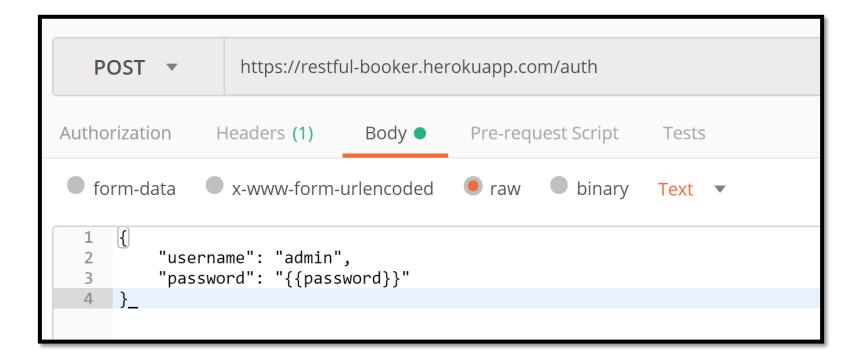


## **EX4.2** – (cont'd)

- 13. Modify the current value of the "base\_url" variable to "https://staging-api.openweathermap.org"
- 14. Click on the row drop-down and click on **Persist**. This will modify the initial value to the current value.
- 15. On the Request Builder, select the **OpenWeather Staging** Environment and send the request.



#### Form Usage Example





#### **EX4.3** – Define Variables in Request Body

- Open the "Get Auth Token" request from your Restful Booker collection.
- 2. Modify the body of the request to match the example on the right side of this slide.
- 3. Add an environment called "Restful-Booker Admin".
- 4. Define a variable called "password" in the environment and set the **CURRENT value** to "password123".
- 5. Select the "Restful Booker Admin". environment and send the request.
- 6. Verify that the response is an auth token.

```
"username": "admin",
"password": "{{password}}"
```



#### **Best Practices for Using Environments**

- Environments should be used for data that changes frequently but needs to be shared across people
- Environments are encrypted at rest and at storage and therefore passwords,
   secrets and API keys should be stored in an Environment
- Use Variables to minimise the number of requests in a Collection
- Avoid having requests of the same endpoint but a different parameter



## **Benefits of Using Variables**



- {{url}}/data/{{api\_version}}/weather?q=Sydney
- {{url}}/data/{{api\_version}}/weather?q=Melbourne
- {{url}}/data/{{api\_version}}/weather?q=Perth

{{url}}/data/{{api\_version}}/weather?q={{city}}



#### **Global Variables**

- Global variables contain a value that is defined across the entire Workspace
- Good for storing information that does not change but is used repetitively
- To define:
  - Click Manage Environments button.
  - Then click **Globals**.







#### **Module Review**

#### **Key Points:**

- Variables minimize the number of requests that need to be defined
- Environments variables are ideal for changing data in a request
- When the same variable is defined in multiple scopes, the value of the narrower scope will be used (Environment over Global)



# Module 5 Performing Basic API Testing with JavaScript



## **Module Objectives**

After completing this module, you will be able to:

- Describe basic API testing
- Describe Postman API testing
- Write a basic test in JavaScript
- Describe/Use test Assertions
- Describe/Use Variables in scripts
- Describe/Use Code Snippets
- Describe Postman Sandbox API



# **Basic API Testing**



## Why test APIs?

- Interface to application logic
- APIs form a critical contract in the systems we build
- Bugs in an API can affect many API consumers
- Testing helps to identify failures earlier in the development cycle and fix them before the API consumers are affected



#### What is being tested?

#### 1. Functionality

- Check whether API behaves as expected
- Send request and verify response

#### 2. Performance

Verify that API gives a response within a certain time constraint

#### з. Reliability

- Verify that the API is up and available for consumers

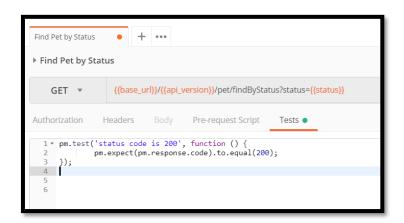
#### 4. Security

- Ensure that API does not allow unauthorised access and usage
- For example, check for permissions of different sets of users



#### **Postman API Testing**

- JavaScript code can be executed after receiving the response to a request
- Access request, response, and variable data
- Postman Sandbox API provides a set of
   JavaScript variables and functions to access
   the request and response data
- The Tests Results tab in the response area to show the results of each test





## Writing a Basic API Test in JavaScript



#### Writing a Test

- Test cases are defined by the pm.test() function
- Each test requires a test name and a set of test assertions

# First argument is the test name, second argument is a function which will contain our assertions

```
pm.test('status code is 200', function () {
        pm.expect(pm.response.code).to.equal(200);
});
```



#### **Test Assertions**

- A Test Assertion is a Boolean expression at a specific point in a program
  which will be true unless the program behaves in a different way to what we
  were expecting
- Assertions are expressions which encapsulate testable logic
- Assertion functions are used to test expected behavior



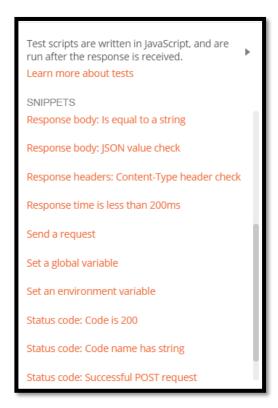
## **Test Assertions (cont'd)**

- Use pm.expect() function
- Generic assertion function based on ChaijS expect BDD library (<a href="http://www.chaijs.com/api/bdd/">http://www.chaijs.com/api/bdd/</a>)
- Handles assertions of data from a response or variables.
- For example:
  - Check the status code of a response
  - Check for values of JSON fields
  - Check for response header values



## **Code Snippets**

- Snippets of code for commonly used test logic
- Click on line to automatically append the JavaScript code





#### EX5.1 – Write a Test

- 1. Open the **Get Weather by City** request from the OpenWeather API Collection
- Click on the Test tab and look for the code snippet called "Status code: Code is
   200"
- 3. Click on the snippet to insert the code
- 4. Send the request and check the **Test Results** tab to ensure that the test case has passed.



#### EX5.2 – Use Test Assertions

- 1. Open **Tests** tab of the **Get Forecast by City** request.
- 2. Look for the code snippet called "Response body: JSON value check" and insert the code.
- 3. Name the test case "Check correct city"
- 4. Change the **pm.expect()** function to the following:

```
pm.expect(jsonData.name).to.eql("Sydney");
```

- Select the OpenWeather Production environment and make sure the value of the "city" variable is set to "Sydney".
- 6. Send the request and verify that both test cases pass.
- 7. Change the value of the environment "city" variable to "Perth" and send the request again.
- 8. What do you notice in the test results and why is that the case?



# **Using Variables in Testing**



#### **Variables in Scripts**

```
Get the value of the environment variable "Status"
pm.environment.get("status");
Set the value of an environment variable
pm.environment.set("variable key", "variable value");
Get the value of a global variable
pm.globals.get("variable key");
Set the value of a global variable
pm.globals.set("variable key", "variable value");
```



## **EX5.3** – Use Variables in Testing

- 1. Go to the **Check correct city** test that was defined in Exercise 6.2.
- 2. Modify the pm.expect() function so that we assert that the value of the "name" key in the JSON data is equal to the value that we set on our environment "city" variable.

Hint: Use the code snippet to "get an environment variable"

- 4. Send the request and verify that both test cases pass.
- 5. Change the value of the environment "city" variable to "New York" and send the request again.
- 6. Verify that both test cases pass.



#### Postman Sandbox API

- JavaScript execution environment that is available when writing pre-request and test scripts
- Code is executed inside the sandbox
- Full API reference at

https://www.getpostman.com/docs/v6/postman/scripts/postman\_sandbox\_api\_reference



#### **Module Review**

#### **Key Points:**

- Test APIs for functionality,
   performance, reliability and security
- JavaScript code is executed against the response received from a request
- Test the response by checking values, status codes, headers, etc.



# Module 6 Collaborating Through Postman Workspaces



## **Module Objectives**

After completing this module, you will be able to:

- Describe Postman Workspaces
- Create Workspaces
- Browse Workspaces
- Use Workspaces to share and organize



# **Postman Workspaces**



#### **Basic Collaboration**

- Collections can be exported to a JSON file and imported
- Environments can be downloaded into a file and imported
- Useful for sharing Collections and Environments with team members
- Very basic method of collaboration
- No syncing occurs





#### **Postman Workspaces**

- A view of all Postman elements:
  - Collections
  - Environments
  - Mocks
  - Monitors
  - Integrations
  - Activity feed
  - History, pre-set Headers, global Variables
- Collections and Environments can be shared between Workspaces





## **Personal vs Team Workspaces**

#### Personal Workspaces

- Workspace that only you can see
- Unlimited personal Workspaces allowed if you have a Postman account

#### Team Workspaces

- Can be shared with members of your team
- Invite users to the Workspace and grant them permissions to view and/or edit



## Why use Workspaces?

- Personal organization
- Team organization
- Source of truth
- Team permissions
- Discovery
- Up to data activity feed
- Real time debugging with history

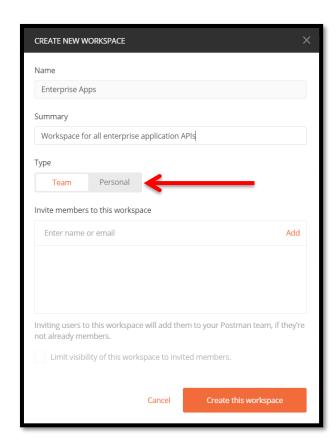


# **Creating Workspaces**



#### **Creating a Workspace**

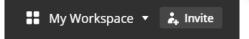
- Select a Workspace Type (Team or Personal)
- Creating a **Team Workspace** gives you the option of inviting users
- Users can be invited to a Personal Workspace;
   it then converts to a Team workspace.





#### EX6.1 – Create a Workspace

1. Click the **My Workspace** drop-down menu in the Header.



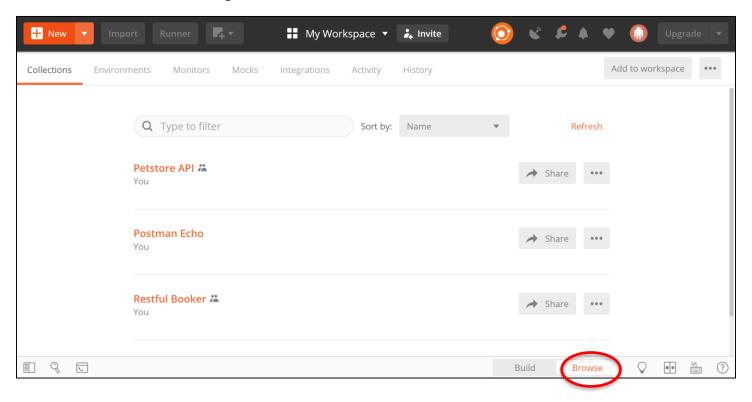
- Click on Create new.
- 3. Give the Workspace a name and summary.
- 4. Select the **Personal** workspace option.
- 5. Click the **Create this workspace** button.
- 6. Switch over to the new Workspace. Notice how there are no Collections, Requests, Environments, etc.
- 7. Create another Workspace but this time select the **Team** option



### **Browsing Workspaces**



#### **Browse Workspaces**





#### **DEMO**

# Browse Workspaces

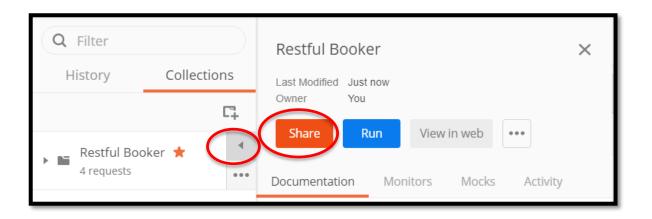


#### **Using Workspaces to Share & Organize**



#### **Sharing Collections**

- Collections can be shared between Workspaces
- Shared Collections are automatically synced
- Allows other team members to view and/or edit the Collection





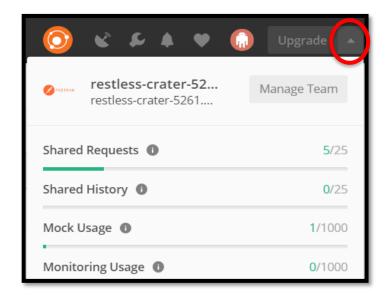
#### **EX6.2 – Share a Collection**

- 1. Return to your default workspace called **My Workspace**.
- 2. Open the **Restful Booker** Collection and click "Share".
- 3. Select the team workspace you created previously and click "Share and Continue"
- 4. On the Manage Roles screen, leave the permissions as they are and click "Save Roles"
- 5. Switch to the team workspace and verify that you can see the Restful Booker Collection
- 6. Create a new Request in your Restful Booker Collection
- 5. Switch back to your previous workspace and verify you can see the new request inside the Restful Booker Collection



#### **Shared Usage Limits**

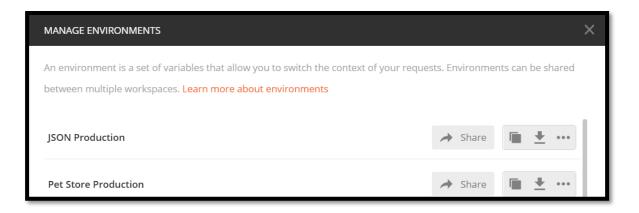
- Accounts on free Postman plan are allocated a limit of shared resources
- Click the drop-down next to the Upgrade button on the header to check usage.
- Upgrade to Postman Pro or Enterprise for unlimited usage.





#### **Sharing Environments**

- Environments can be shared across Workspaces
- Shared Environments are auto synced
- Do not share Environments containing sensitive data (e.g. passwords, API keys)
- Variables for sensitive data should use placeholder values





#### **EX6.3 – Share an Environment**

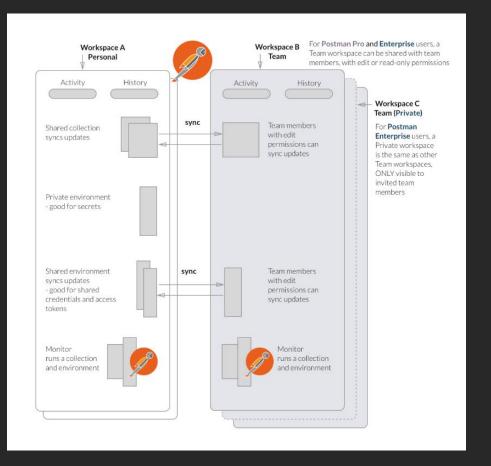
- 1. Click Manage Environments button.
- 2. Click on the **Restful Booker Admin** Environment.
- 3. Edit the INITIAL VALUE of the "password" variable to "your\_password".
- Set the CURRENT\_VALUE to anything you like and click "Update"
- 5. Return to **Manage Environments** and **share** the new Environment with the team Workspace you created in EX7.1.
- 6. Switch into the team workspace and check Restful Booker Admin environment.

  The current value should be the placeholder text "your\_password".
- 7. Input a password on the current value.



#### **Workspace Sharing**

From Postman version 6.2
 onwards, you no longer need
 Postman Pro or Enterprise to
 create team workspaces





#### **Using Workspaces to Organize**

- Workspaces are a free form organization principle (it is completely up to you, how you want to organize them)
- Some suggestions for organizing:
  - By **function** (documentation, testing, etc.)
  - By **product**
  - By project
  - By partner



#### **Module Review**

#### **Key Points:**

- Team workspaces are important for effective collaboration
- Environments and Collections can be shared and synced across workspaces
- Use session variables to avoid sharing sensitive data in an Environment
- Many ways to organize workspaces(e.g. by function, product, project)



#### **Additional References**

- Documentation <a href="https://learning.getpostman.com">https://learning.getpostman.com</a>
- Blog <a href="http://blog.getpostman.com">http://blog.getpostman.com</a>
- Postman API docs <a href="https://docs.api.getpostman.com/">https://docs.api.getpostman.com/</a>
- Restful Booker sample API <a href="https://restful-booker.herokuapp.com/apidoc/index.html">https://restful-booker.herokuapp.com/apidoc/index.html</a>



## You have reached the end of the Postman Fundamentals course!