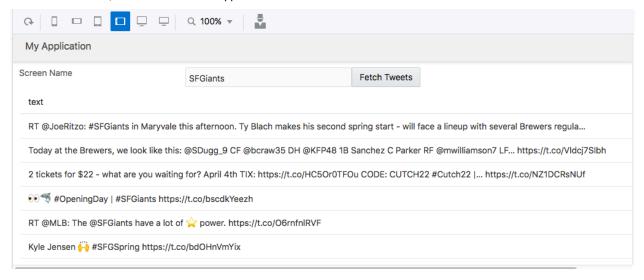
VBCS Training Lab 02 Integrating an External REST API

Introduction

In this hands-on-lab, we will create a new application that retrieves a list of tweets for a user.



Hands on Lab Instructions

Creating a Web Application

- 1. Click New button to create a new application
- 2. Name the application VBCSLab02
- 3. Append your username to the Application ID to make it unique i.e. VBCSLab02tMyName
- 4. Click Finish

Creating an Application in Twitter

Before you can connect to the Twitter APIs, you need to register for the developer program and create an app in Twitter.

5. Go to https://developer.twitter.com/en/docs/basics/getting-started and follow the instructions under Get started: **Build an app on Twitter**.

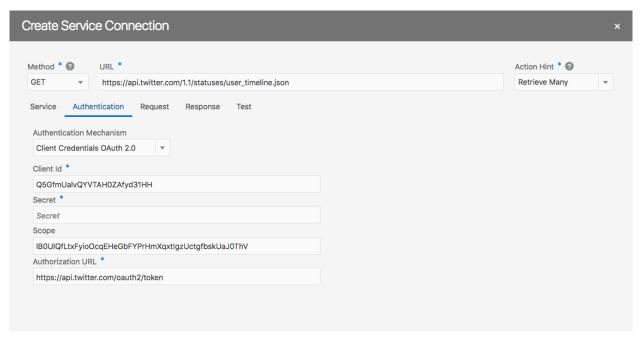
Registering the Twitter API

- 6. In the left sidebar, click the Service Connections icon C
- 7. Click the icon in the Services panel
- 8. Click Define By Endpoint
- 9. In the Service tab, enter the following information:

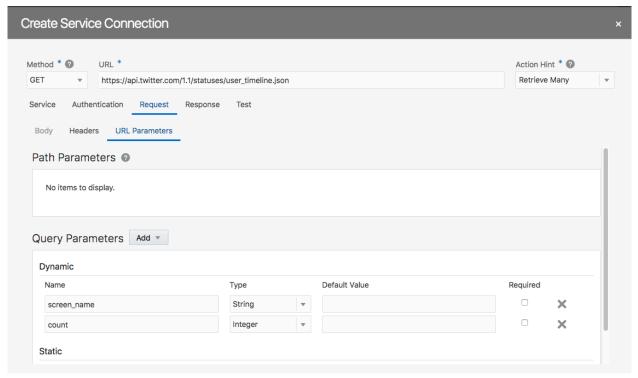
Field	Value
Method	Get
URL	https://api.twitter.com/1.1/statuses/user_timeline.json
Action Hint	Get Many
Service Base URL	Leave default (https://api.twitter.com/1.1/statuses)
Service Name	Twitter
Service ID	Leave default (twitter)

10. In the Authentication tab, enter the following information. Go to https://apps.twitter.com to get this information:

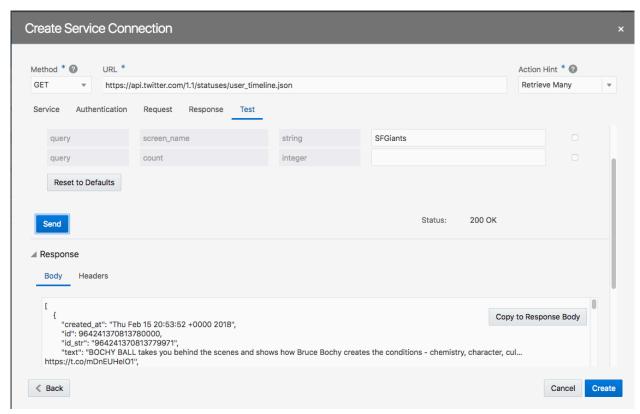
Field	Value
Authentication Method	Client Credentials OAuth 2.0
Client Id	The Consumer Key (API Key) from your app
Secret	Consumer Secret (API Secret)
Scope	Leave blank
Authorization URL	https://api.twitter.com/oauth2/token



- 11. Click Request > URL Parameters. Add two Dynamic Query Parameters:
 - a. screen_name String
 - b. count Number



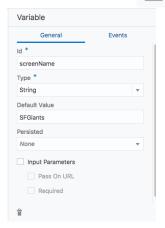
12. Click Test. Enter SFGiants as the screen_name and click Send. The response body appears in the Body area below. Click the Copy to Response Body button.



13. Click Create.

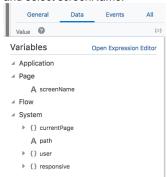
Create the UI

- 14. Open the web app start page by clicking the Main tab and double-clicking the start page icon.
- 15. Drop an Input Text component in the page.
- 16. Set the text in the label to Screen Name.
- 17. Click the Variables button and create a new String variable called screenNameTemp.



- 18. Create another String variable called screenname.
- 19. Click the Designer button

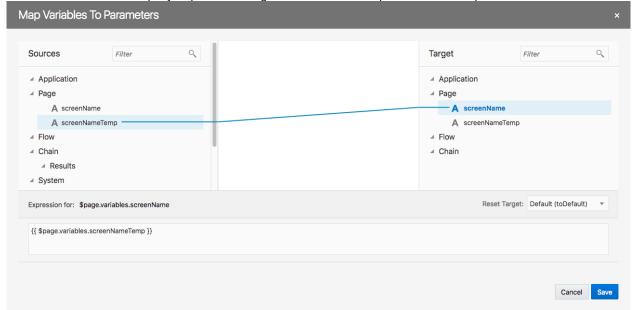
20. Select the Input Text component. In the Properties Inspector, click Data. Click the Variables button above the Value field and select screenName.



- 21. Drop a button next to the input text and set its display text to Fetch Tweets.
- 22. With the button selected, open the Events tab of the Properties Inspector. Click New Event > click quickstart
- 23. In the ButtonClickAction editor, drag an Assign Variables action under Start. Rename the action AssignScreenName.

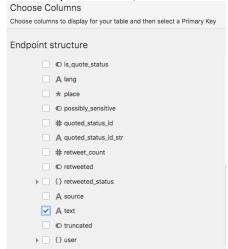


24. Click the -> button in the Property Inspector for assignScreenName and map screenNameTemp to screenname.

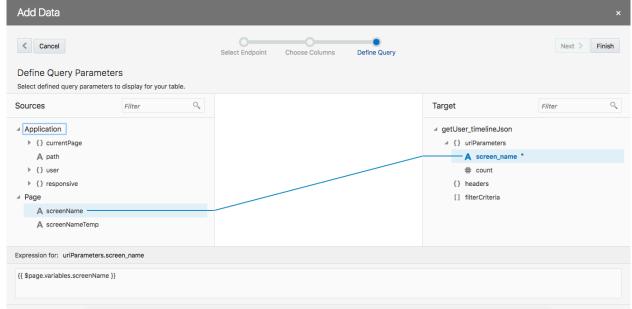


- 25. Drop a table under the Input Text component. In the Properties Inspector, click Add Data.
- 26. Select Service Connections > Twitter > getUser_timelineJson and click Next.

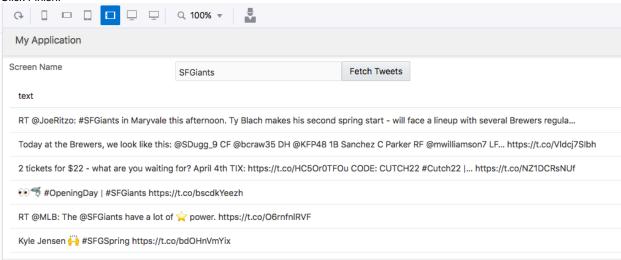
27. Under Endpoint Structure, select text and click Next.



28. Map Page > screenNane to getUser_timelineJson > uriParameters > screen_name.



29. Click Finish.



Conclusion

Oracle Visual Builder Cloud Service is one of the fastest ways to develop and deploy an application to nearly any platform. Whether you are a seasoned application developer or have no technical background at all, VBCS gives you the ability to work with and share data more efficiently than ever before.

Be sure to visit the Oracle VBCS web site to get the latest details about this revolutionary application development tool and many other Oracle Cloud offerings.

https://cloud.oracle.com/visual-builder