

The Python and the Postman

REST APIs For Beginners

Blackboard

#BbWorld20

Forward-Looking Statement

Statements regarding our product development initiatives, including new products and future product upgrades, updates or enhancements represent our current intentions, but may be modified, delayed or abandoned without prior notice and there is no assurance that such offering, upgrades, updates or functionality will become available unless and until they have been made generally available to our customers.



About Me

- Blackboard's Partner Software Engineer/5yrs+
- Former Blackboard Learn Admin & Dev @ CSU Chico
- Scientist/Engineer @ Hewlett-Packard
 - Report Generation System and Method, US
 Patent# 7031979
- Grandfather, 6X marathons, hiking & gaming
- Into Science Fiction

Agenda

REST Application for Blackboard Learn

- Register App on Developer Portal
- Integrate App With Blackboard Learn

Postman

- Authenticate
- Make REST API calls to Blackboard Learn

Python

 Use M.D's BbRest Python package to make REST API calls to Blackboard Learn

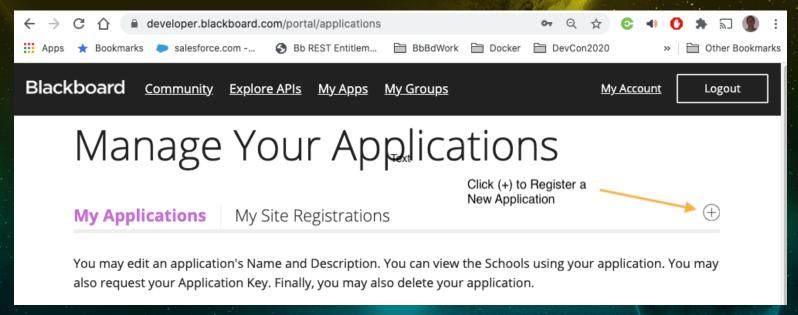


REST Application for Blackboard Learn

Register and Setup

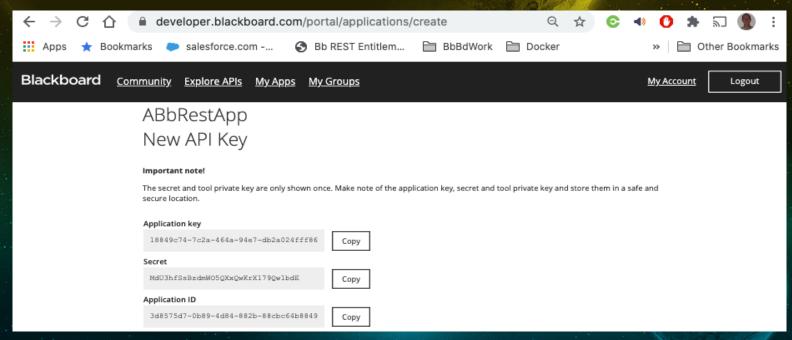
Blackboard

Register on developer.blackboard.com



- No LTI Needed For This Workshop
- Domains: localhost[,<any domains your app may run on>]

Register on developer.blackboard.com



- PAUSE!!
- Save This Information

Setup on Learn

Administrator Panel **REST API Integrations** Create Integration Create Integration * Indicates a required field. **GENERAL INFORMATION** * Application ID appld from registration Learn User user/sysrole => entitled Browse... ★ End User Access Yes \(\cap \) No * Authorized To Act As User







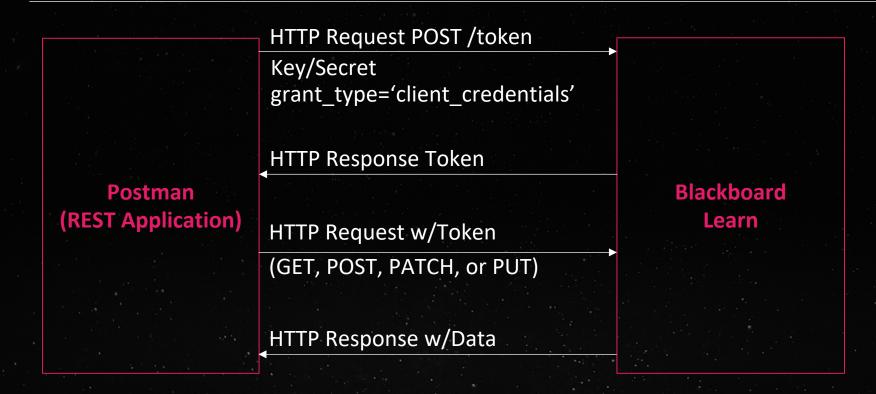
Postman

https://www.postman.com/

Blackboard

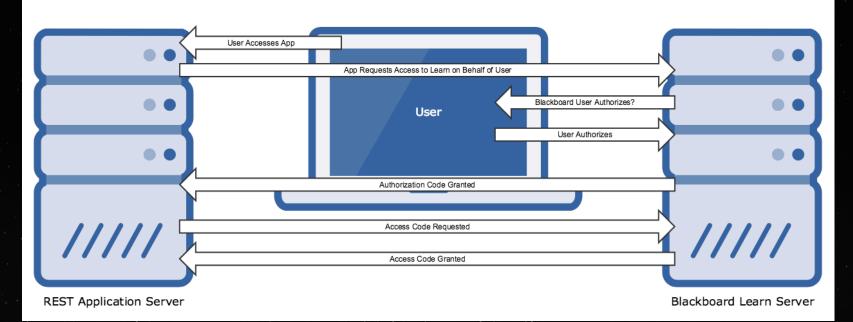
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Authenticate - Two-legged



Authenticate - Three-legged

Blackboard Learn 3-Legged OAuth Workflow



Portman Demo!

Import Blackboard Learn APIs

Two-legged OAuth 2

REST API Requests

Three-legged OAuth 2

REST API Requests





Python

BbRest is Your Friend!

Blackboard

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Python

Python is a programming language that lets you work quickly and integrate systems more effectively.

https://www.python.org/

BbRest

Blackboard REST APIs... for humans? (TM)

https://github.com/mdeakyne/BbRest

A Match Made In Heaven

For Python Developers Making REST API Request To Blackboard Learn

Python & BbRest Demo!

The Code!

https://github.com/mark-b-kauffman/bbrest-devcon2020



DEVCON(20)

Hirifilificialification