NO MORE MONKEYWORK

WITH AEMADMIN

Pieter-Jan Drouillon

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ABOUT ME

Academic background

Short-lived career in Supply Chain

Full-stack developer @ Design Is Dead

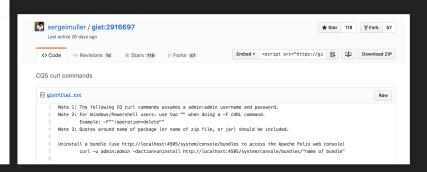
WHY?

POINT & CLICK

- 1. Update property
- 2. Add node
- 3. Install content package

STUMBLED ON ...

References Manipulating Content - The SlingPostServlet (servlets.post) How to find out CURL command for any CQ operation? Some of the COMMON CURL commands to work with AEM sergeimuller bkondepudi AEM / CQ5 Curl Commands Useful Curl Commands CRX 2.3 - Working with Packages



Manipulating Content - The SlingPostServlet

- Multiple Ways to Modify Content
- Quickstart: Creating Content
- Preface: multipart/form-data POSTs
- SlingPostServlet Operations
 - Content Creation or Modification
 - Content Removal
 - Copying Content

FIRST ATTEMPT

```
function createPage{
    param([int]$port=4502,[string]$path,[string]$name,[string]
    if($deleteFirst){
        deletePage -port $port -path $path -name $name
    }
    $cmd = 'curl.exe -u admin:admin -F"jcr:primaryType=cq:Page
    Invoke-Expression $cmd
    $cmd = 'curl.exe -u admin:admin -F"jcr:primaryType=cq:Page
    Invoke-Expression $cmd
}
```

PROS / CONS

- **⊘** Lightweight
- **⊗** Testable
- Easy & consistent syntax

WHY NOT JAVA?

TESTABLE

Junit & Mockito

LIGHTWEIGHT

Apache HttpClient, Commons Lang & com.github.tsohr:json

EASY & CONSISTENT

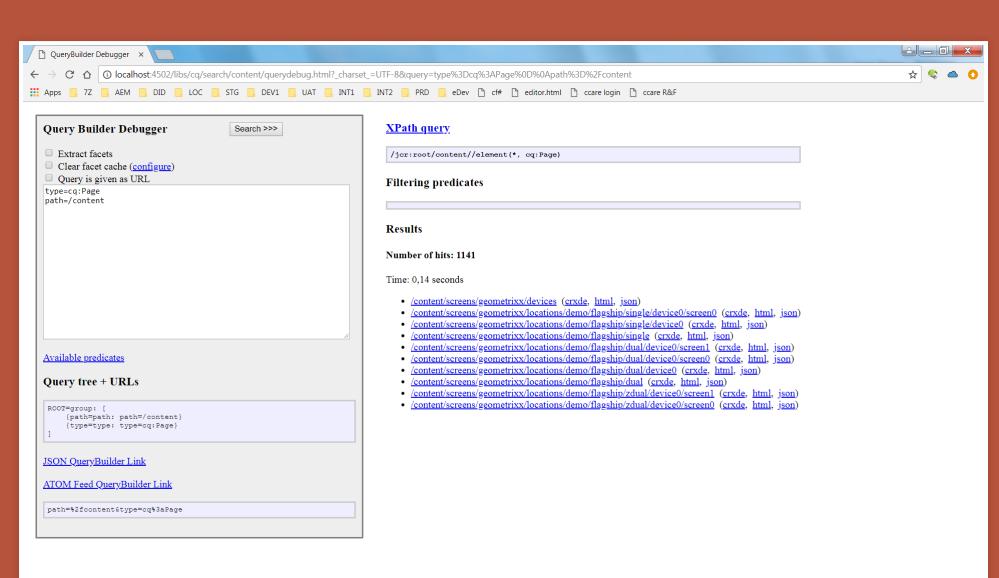
Naming convention & method chaining

EXAMPLES

ADDING PROPERTIES

```
CompositeCommand cc = new CompositeCommand();
//base website
String[] base languages = {"nl","fr","en"};
String[] base segments = {"retail", "soho", "sme"};
for(String lang:base languages){
    for(String segment:base segments){
        String path = String.format("/content/kpngb-base/%s/%s
        SetPropertyCommand spc = new SetPropertyCommand(path,"
        cc.add(spc);
        path = String.format("/content/kpngb-base/%s/%s/sales-
        spc = new SetPropertyCommand(path,"enableOnlineSales",
        cc.add(spc);
```

QUERY COMMAND



```
public QueryCommand addCondition(String key,String value)
public QueryCommand setHitLimit(int limit)
public QueryCommand fullHit()
public QueryCommand propertyExists(String prefix,
    String propertyName)
public int getResults()
public int getTotal()
public boolean hasMore()
```

POSTPROCESS

```
/**
 * Queries return JSON with an array called hits. This method will pro
 * @param hit the result to process
 */
public abstract void postProcessOneResult(JSONObject hit);
```

DEFINE QUERY

```
public WorkflowInstancesQueryCommand(String status){
   addCondition("path","/etc/workflow/instances/server0");
   addCondition("p.hits","full");
   addCondition("orderby","endTime");
   if(status != null){
      addCondition("1_property","status");
      addCondition("1_value",status);
   }
   else{
      propertyExists("1_","status");
   }
}
```

LOOP OVER HITS

```
public class DifferentStatusValuesCommand extends QueryPostPro
    private Set<string> statuses;
    public DifferentStatusValuesCommand(WorkflowInstancesQuery
    super(command);
    statuses = new HashSet<>();
    @Override
    public void postProcessOneResult(JSONObject hit) {
    statuses.add(hit.getString("status"));
    public Set<string> getStatuses() {
        return statuses;
```

INSTANCE INSTALL

```
CompositeCommand cc = new CompositeCommand();
//Enable crx/de
EnableCrxCommand ecc = new EnableCrxCommand();
cc.add(ecc);
BulkPackageInstallCommand bpic = new BulkPackageInstallCommand
//One off packages for a fresh install
bpic.addPackage("D:\\packages to install\\acs-aem-commons-cont
.addPackage("D:\\packages to install\\acs-aem-tools-content-0.
.addPackage("D:\\packages to install\\AEM-6.3-Service-Pack-1-6
.addPackage("D:\\packages to install\\cq-6.3.0-hotfix-19148-1.
.addPackage("D:\\packages to install\\Content auth PROD CRQ000
.addPackage("D:\\packages to install\\Content auth PROD CRQ000
.addPackage("D:\\packages to install\\permissions.zip")
.addPackage("D:\\packages to install\\nprd userGroups.zip");
//install the Java code
```

OTHER FEATURES

- Instance config via cmdline property
- fat jar

CONCLUSION

- Reduce point & click monkeywork
- Testable
- Lightweight
- Easy

http://github.com/pieterjd/aemadmin

Q & A

Pieter-Jan Drouillon

Pieter-Jan @ designisdead.com

