

GROOVY CASE STUDIES

Web Scraping & Data Extraction with Groovy & Jsoup

Solution

- Used Groovy + Jsoup to extract pricing data.
- Scheduled the script using cron jobs for daily updates.
- Exported data into a CSV file for analysis.

Groovy Web Console

SystemGithub

```
1
2 @Grab('org.jsoup:jsoup:1.13.1')
3 import org.jsoup.Jsoup
4
5 def url = "https://finance.yahoo.com/quote/UGAZ"
6 def doc = Jsoup.connect(url).get()
7
8 // Inspect the Yahoo page source and find the correct selector
9 def priceElement = doc.select("fin-streamer[data-field=regularMarketPrice]")
10
11 if (priceElement) {
12     def price = priceElement.text()
13     println "UGAZ Price: $price"
14 } else {
15     println "Price element not found!"
16 }
17
18
19
20
```



Output : Scraping prices from website

Output	Result	Error	Info
1	UGAZ Price: 6,114.63 44,546.08 20,026.77 2,279.98 71.41 2,922.40 31.50 10.53 20.81 9.58 87.50 10.97 19.75 125.17 5.44 182.19 23.60 138.85 10.97 47.91 9.02 2		
2			

Groovy DSL for Configuration Management

Solution:

- Developed a Groovy DSL to define infrastructure configurations.
- Allowed users to write settings in Groovy instead of JSON/YAML.
- Integrated with Terraform for cloud infrastructure provisioning.

```
Groovy Web Console  System  Github

1  class Config {
2      String environment
3      Database database = new Database()
4      Server server = new Server()
5
6      void environment(String env) {
7          environment = env
8      }
9
10     void database(Closure closure) {
11         closure.delegate = database
12         closure.resolveStrategy = Closure.DELEGATE_FIRST
13         closure()
14     }
15
16     void server(Closure closure) {
17         closure.delegate = server
18         closure.resolveStrategy = Closure.DELEGATE_FIRST
19         closure()
20     }
21
22     void printConfig() {
23         println "Environment: $environment"
24         println "Database: Host=${database.host}, User=${database.user}, Password=${database.password}"
25         println "Server: Memory=${server.memory}, CPU=${server.cpu}"
26     }
27 }
28
29 class Database {
30     String host
31     String user
32     String password
33
34     void host(String h) { host = h }
35     void user(String u) { user = u }
36     void password(String p) { password = p }
37 }
38
39 class Server {
40     String memory
41     String cpu
42
43     void memory(String m) { memory = m }
44     void cpu(String c) { cpu = c }
45 }
46
47 // Define a method that accepts a closure
48 def config(Closure closure) {
49     def conf = new Config()
50     closure.delegate = conf
51     closure.resolveStrategy = Closure.DELEGATE_FIRST
52     closure()
53     conf.printConfig() // Output the final configuration
54 }
55
```

```
56 // Use the custom DSL
57 config {
58     environment "production"
59     database {
60         host "db.example.com"
61         user "admin"
62         password "securePassword"
63     }
64     server {
65         memory "8GB"
66         cpu "4"
67     }
68 }
69
```

Groovy 4.0

Execute

Share as Link

History

Class Generation

Inspect Ast

Output

Result

Error

Info

```
1 Environment: production
2 Database: Host=db.example.com, User=admin, Password=securePassword
3 Server: Memory=8GB, CPU=4
```