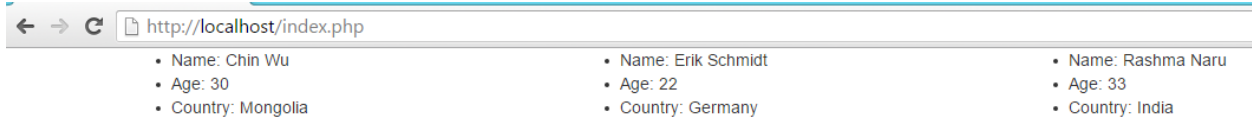
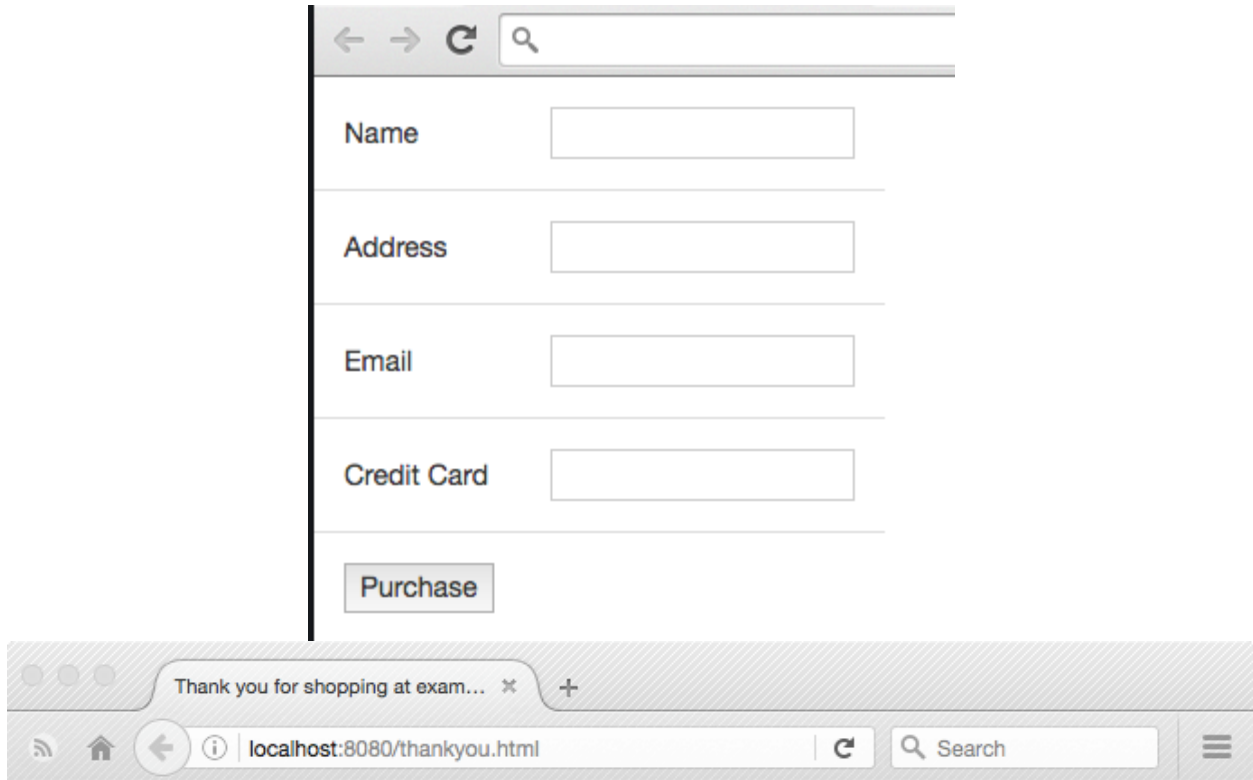


Chapter 1: Create a User Profile System and use the Null Coalesce Operator



Chapter 2: Build a Database Class and Simple Shopping Cart

```
mysql> SELECT * FROM shopping_items;
+----+-----+-----+-----+
| id | name      | price | image      |
+----+-----+-----+-----+
|  1 | Tablet    | 199.99 | tablet.png |
|  2 | Cellphone | 199.99 | cellphone.png |
|  3 | Laptop    | 599.99 | laptop.png |
|  4 | Cable     |  14.99 | cable.png  |
|  5 | Watch     |  99.99 | watch.png  |
+----+-----+-----+-----+
5 rows in set (0.00 sec)
```

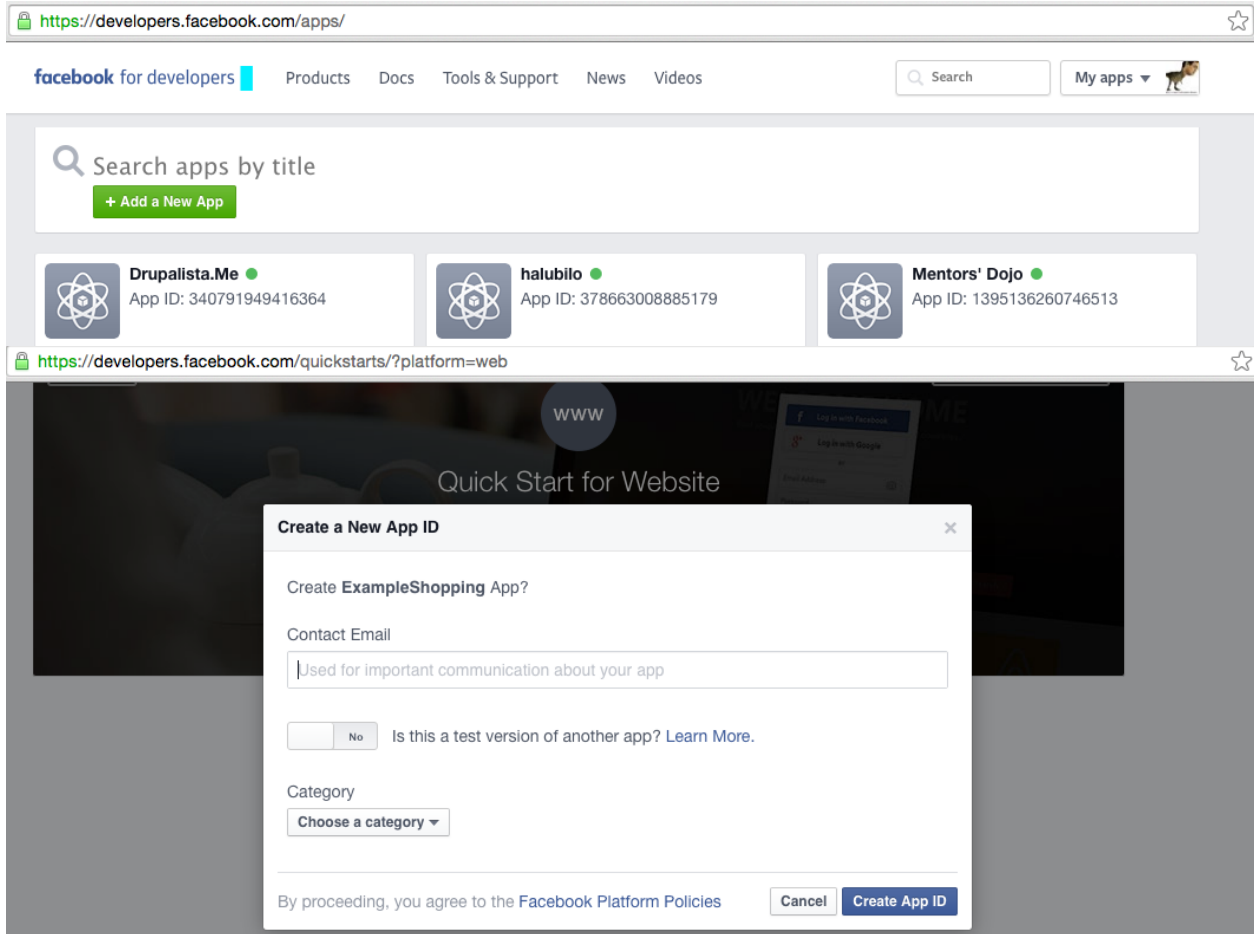


Thank you for shopping at example.info

Yey! We're really happy for choosing us to shop online. We've sent you an email of your purchases.

Let us know right away if you need anything

Chapter 3: Building a Social Newsletter Service



testapp

Setup SDK App Configuration Test Finished

Setup the Facebook SDK for JavaScript

The following snippet of code will give the basic version of the SDK where the options are set to their most common defaults. You should insert it directly after the opening `<body>` tag on each page you want to load it:

```
<script>
window.fbAsyncInit = function() {
  FB.init({
    appId      : '1030961920321948',
    xfbml      : true,
    version    : 'v2.6'
  });
};

(function(d, s, id){
  var js, fjs = d.getElementsByTagName(s)[0];
  if (d.getElementById(id)) {return;}
  js = d.createElement(s); js.id = id;
  js.src = "//connect.facebook.net/en_US/sdk.js";
  fjs.parentNode.insertBefore(js, fjs);
})(document, 'script', 'facebook-jssdk');
</script>
```

You can also configure the SDK with [advanced settings](#).

Give Feedback



Ratchet

WebSockets for PHP

Ratchet is a loosely coupled PHP library providing developers with tools to create real time, bi-directional applications between clients and servers over WebSockets. This is not your Grandfather's Internet.

[Learn more »](#)

Command Prompt - php bin/server.php

```
C:\xampp\htdocs>ls
'ls' is not recognized as an internal or external command,
operable program or batch file.

C:\xampp\htdocs>dir
Volume in drive C is JOE
Volume Serial Number is 122D-0854

Directory of C:\xampp\htdocs


05/08/2016  04:59 PM    <DIR>
05/08/2016  04:59 PM    <DIR>
05/08/2016  03:22 PM    <DIR>
05/08/2016  03:23 PM    <DIR>
05/08/2016  02:44 PM    <DIR>
05/08/2016  04:59 PM    <DIR>
05/08/2016  04:58 PM    <DIR>
04/13/2016  04:28 AM    <DIR>
               1 File(s)
               7 Dir(s)  3,095,27

C:\xampp\htdocs>cd ChatSupport - C
C:\xampp\htdocs\ChatSupport - Copy
```

Windows Security Alert

Windows Firewall has blocked some features of this app

Windows Firewall has blocked some features of CLI on all public and private networks.

 Name: CLI
Publisher: The PHP Group
Path: C:\xampp\php\php.exe

Allow CLI to communicate on these networks:

- Private networks, such as my home or work network
- Public networks, such as those in airports and coffee shops (not recommended because these networks often have little or no security)

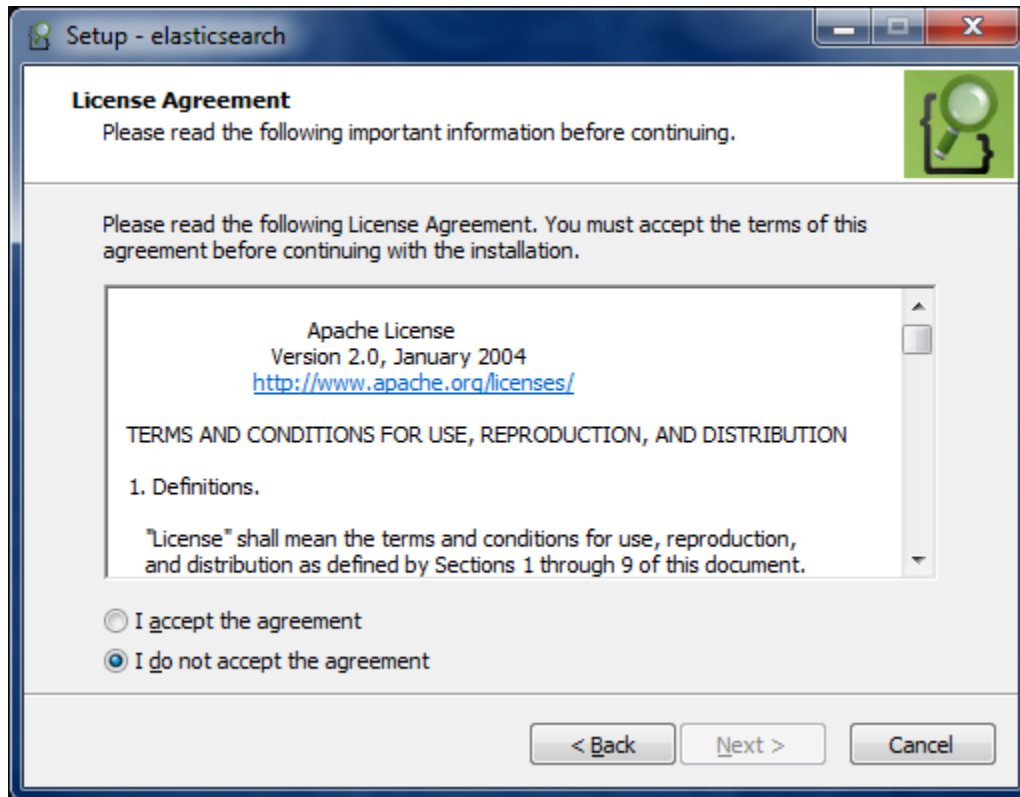
[What are the risks of allowing an app through a firewall?](#)


  Search or enter address

Chat with Support

Messages

Chapter 4: Build a Simple Blog with Search Capability using Elasticsearch





Sign Up with Google

OR

email

username

password

Sign Up (it's free)

By signing up you agree to the [EULA](#)

Already have an account? [Sign In](#)

[Skip this, go straight to the app](#)

Why Sign Up

- ✓ Manage your shared API collections
- ✓ Sync your Postman data across devices
- ✓ Backup your data to the Postman cloud

Runner Import Builder Team Library SYNC OFF

http://127.0.0.1:9200

GET http://127.0.0.1:9200 Params Send Save

Authorization headers body Pre-request script Tests Generate Code

Type No Auth

Body Cookies Headers (2) Tests Status: 200 OK Time: 22 ms

Pretty Raw Preview JSON

```
1 {
2   "name": "Maestro",
3   "cluster_name": "elasticsearch_javpa|ala",
4   "version": {
5     "number": "2.3.3",
6     "build_hash": "218bdf10790eef486ff2c41a3df5cfa32dadcfde",
7     "build_timestamp": "2016-05-17T15:40:04Z",
8     "build_snapshot": false,
9     "lucene_version": "5.5.0"
10  },
11  "tagline": "You Know, for Search"
12 }
```


Create Document for indexing

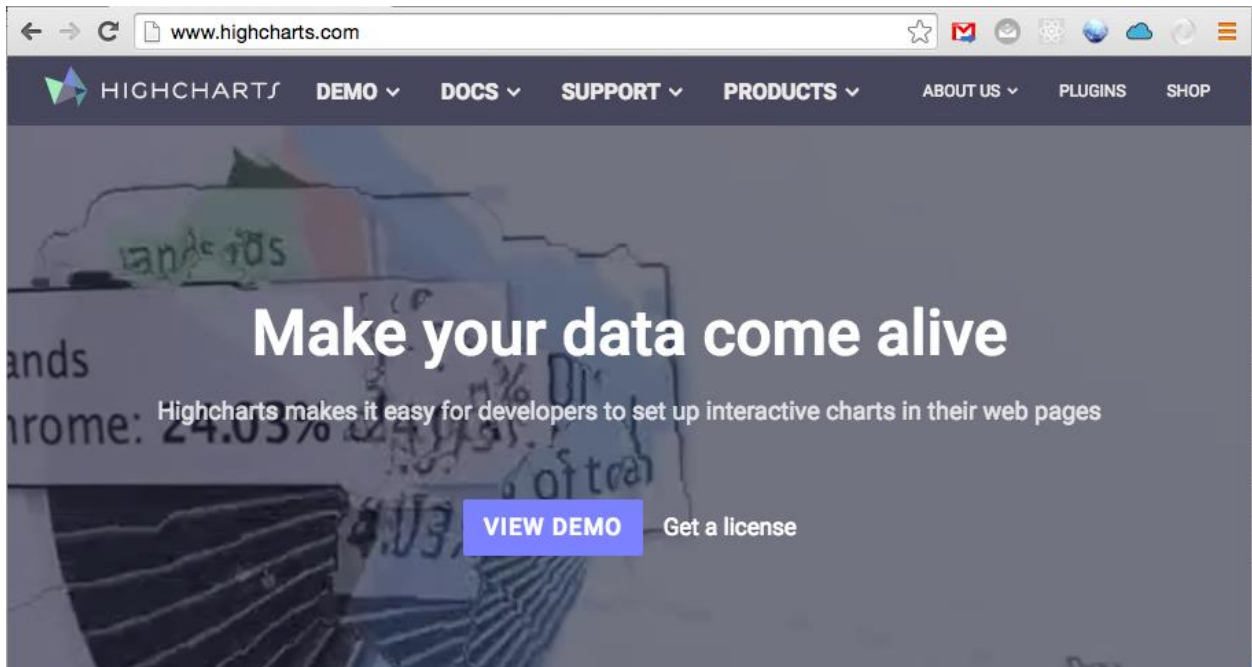
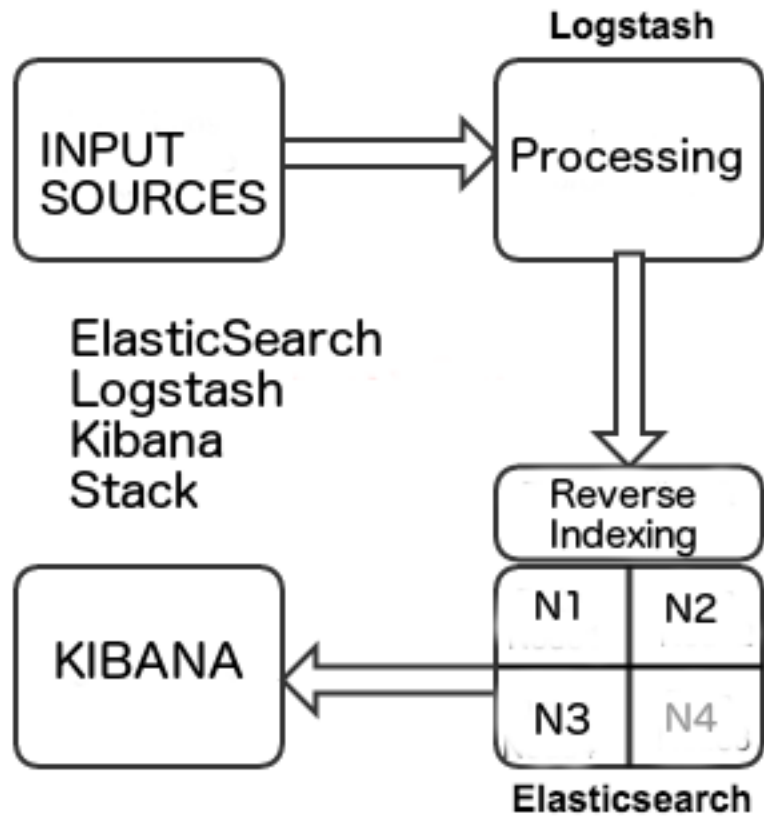
Title

Post Content

Add some Content

Keywords/Tags

You know, #tags



Select time or query search term

Time or search

Time Start/End

 /

Search Term:

[-] Request

Method URL

Body

[-] Response

```
{ "took": 403, "timed_out": false, "_shards": { "total": 5, "successful": 5, "failed": 0 }, "hits": { "total": 1, "max_score": 0.01989093, "hits": [ { "_index": "posts", "_type": "post", "_id": "1", "_score": 0.01989093, "_source": { "body": { "user": "kimchy", "post_date": "2016-11-14T14:12:12", "post_body": "trying out Elasticsearch" } } } ] }
```

XML TO JSON Converter

Xml Input

1

Result mode:

Turn JSON into Diagram

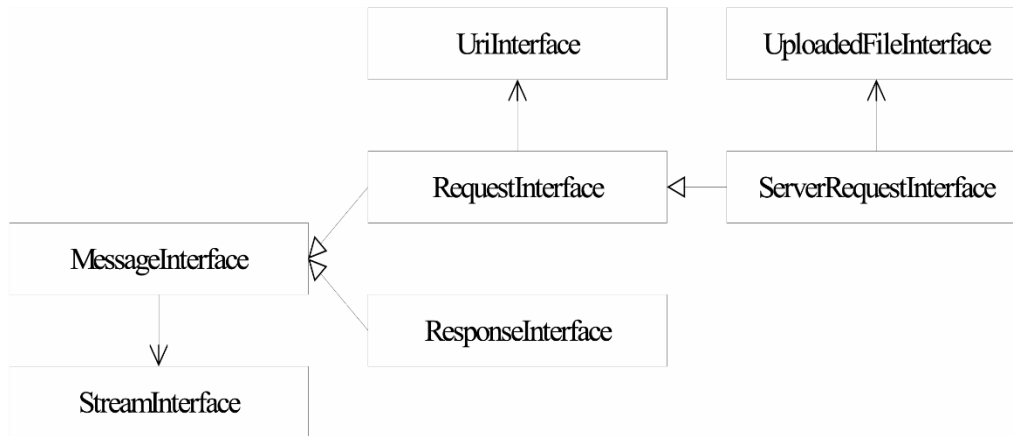
Click Here for GoJS

Result

Chapter 5: Creating a RESTful Web Service



```
mhelmich@martin-centos:~  
Datei Bearbeiten Ansicht Suchen Terminal Hilfe  
[mhelmich@martin-centos ~]$ http localhost  
HTTP/1.1 200 OK  
Connection: Keep-Alive  
Content-Length: 26  
Content-Type: application/json;charset=utf-8  
Date: Wed, 10 Feb 2016 22:15:44 GMT  
Keep-Alive: timeout=5, max=100  
Server: Apache/2.4.10 (Debian) PHP/7.0.2  
X-Powered-By: PHP/7.0.2  
  
{  
  "message": "Hello World!"  
}  
[mhelmich@martin-centos ~]$
```



```

mhelmich@martin-centos:~
Datei Bearbeiten Ansicht Suchen Terminal Hilfe
[mhelmich@martin-centos ~]$ http localhost/profiles/mhelmich
HTTP/1.1 200 OK
Connection: Keep-Alive
Content-Length: 145
Content-Type: application/json;charset=utf-8
Date: Wed, 10 Feb 2016 22:07:49 GMT
Keep-Alive: timeout=5, max=100
Server: Apache/2.4.10 (Debian) PHP/7.0.2
X-Powered-By: PHP/7.0.2

{
  "birthday": "1988-06-26",
  "familyName": "Helmich",
  "givenName": "Martin",
  "interests": [
    "Open Source",
    "Science Fiction",
    "Music"
  ],
  "username": "mhelmich"
}

[mhelmich@martin-centos ~]$
  
```

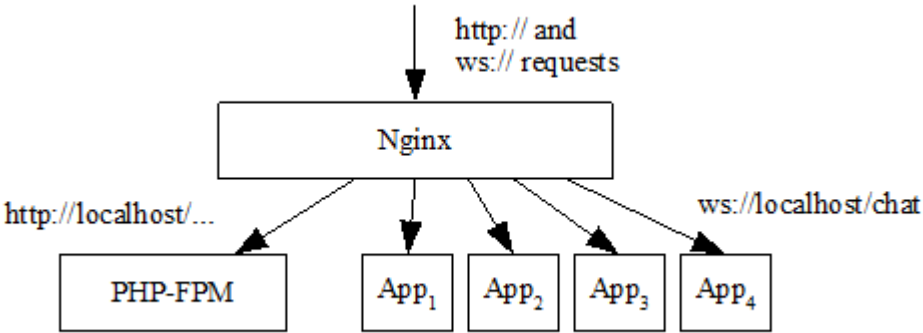
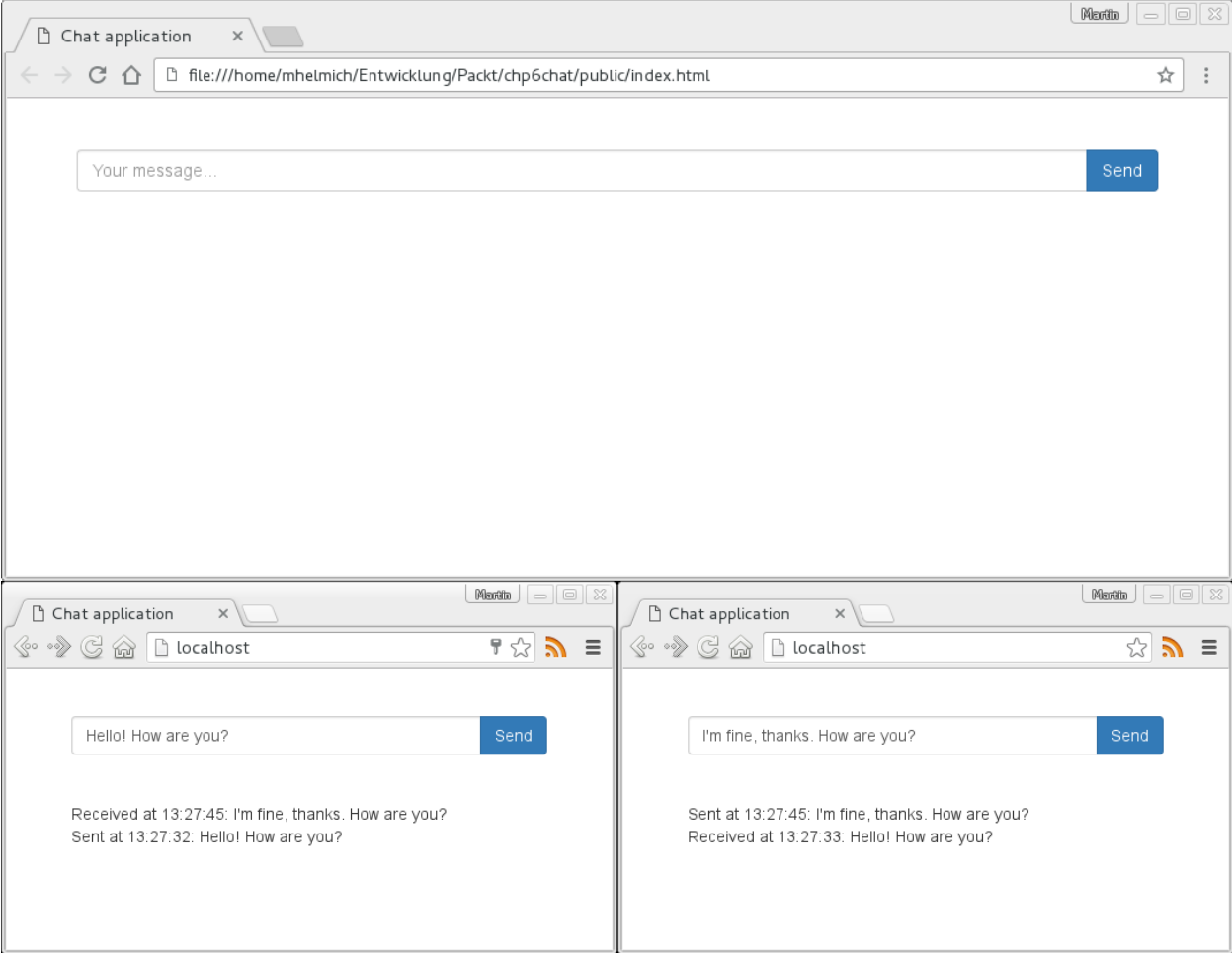
Chapter 6: Building a Chat Application

```
mhelmich@martin-centos: ~  
Datei Bearbeiten Ansicht Suchen Terminal Hilfe  
~> http localhost:8080  
HTTP/1.1 404 Not Found  
X-Powered-By: Ratchet/0.3.4
```

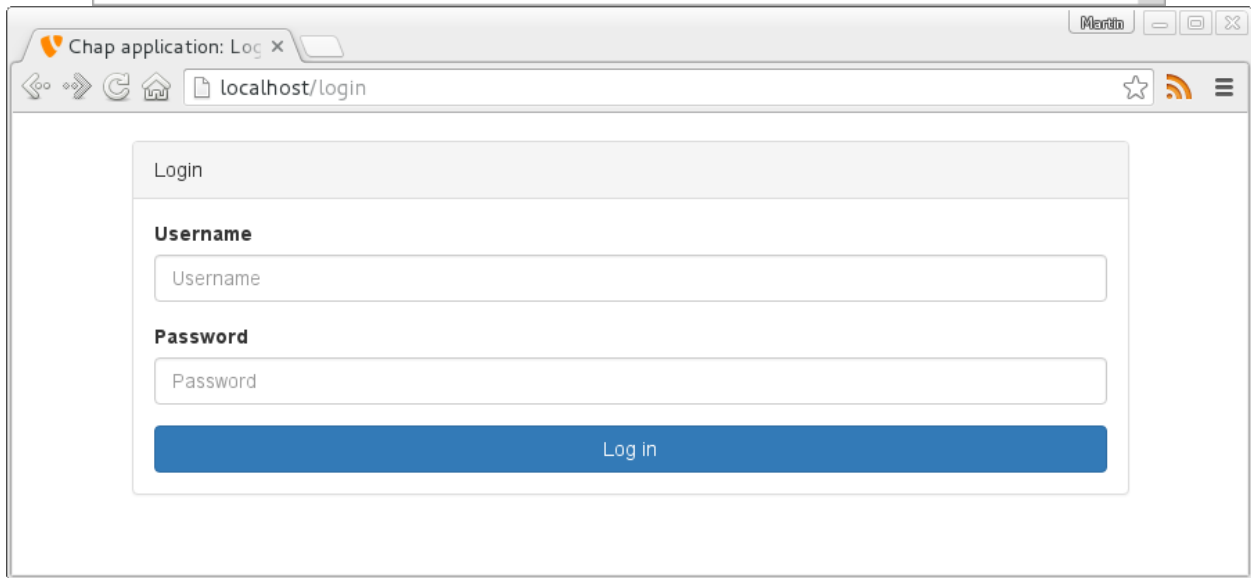
```
mhelmich@martin-centos:~/Entwicklung/Packt/chp6intro  
martin@home $ php server.php  
new connection from 127.0.0.1  
received message 'Hello World!' from 127.0.0.1  
received message 'Websockets are awesome!' from 127.0.0.1  
  
mhelmich@martin-centos:~/Entwicklung/Packt/chp6intro 71x14  
martin@home $ wsclient --connect localhost:8080/reverse -o localhost  
connected (press CTRL+C to quit)  
> Hello World!  
< !dlr0w olleH  
> Websockets are awesome!  
< !emosewa era stekcosbeW  
> 
```

```
mhelmich@martin-centos:~/Entwicklung/Packt/chp6intro 55x13  
[mhelmich@martin-centos chp6intro]$ php server.php  
new connection from 127.0.0.1  
  
mhelmich@martin-centos:~/Entwicklung/Packt/chp6intro 71x14  
martin@home $ wsclient --connect localhost:8080/ping -o localhost  
connected (press CTRL+C to quit)  
> Ping 4  
< Ping 4  
> Ping 5  
< Ping 5  
> Ping 6  
< Ping 6  
> 
```

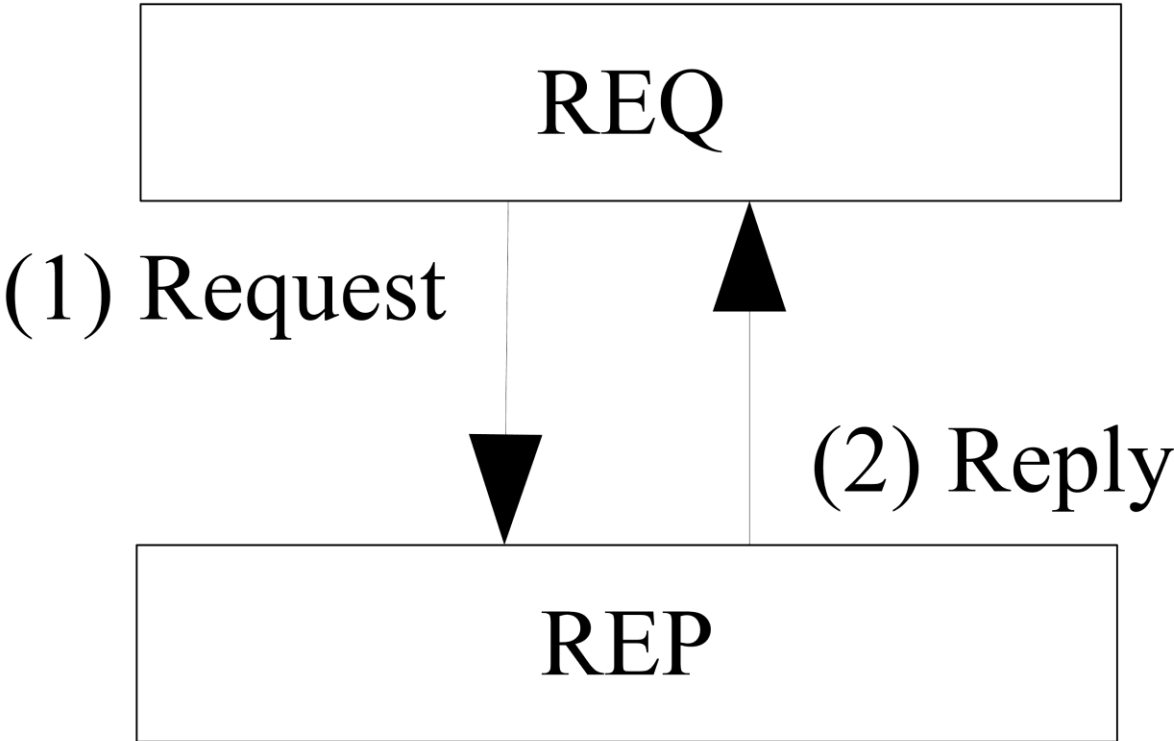
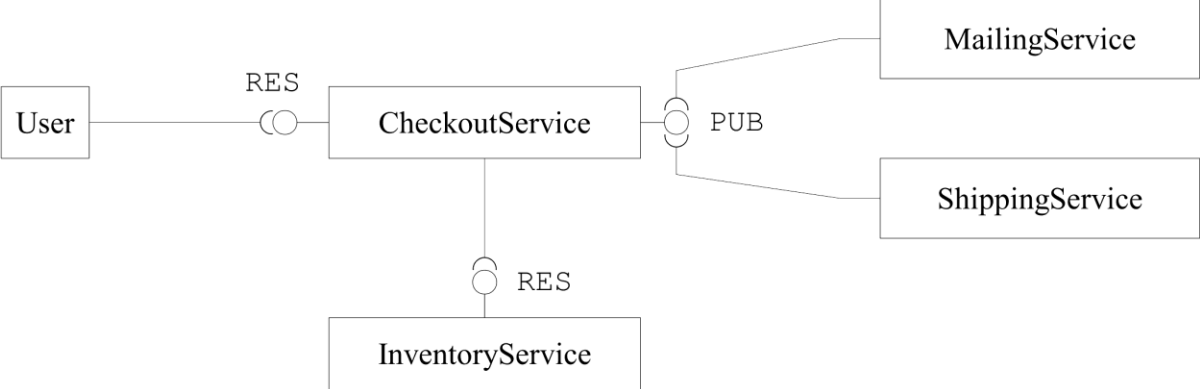
```
mhelmich@martin-centos:~/Entwicklung/Packt/chp6intro 55x13  
[mhelmich@martin-centos chp6chat]$ php server.php  
user 127.0.0.1 connected.  
user 127.0.0.1 connected.  
received message 'Hello! How are you?' from user 127.0.0.1  
received message 'Hi! I'm fine, how are you?' from user 127.0.0.1  
  
mhelmich@martin-centos:~/Entwicklung/Packt/chp6intro 80x10  
[mhelmich@martin-centos ~]$ wsclient --connect localhost:8080/chat -o localhost  
connected (press CTRL+C to quit)  
> Hello! How are you?  
< Hi! I'm fine, how are you?  
>   
  
mhelmich@martin-centos:~/Entwicklung/Packt/chp6intro 80x10  
[mhelmich@martin-centos ~]$ wsclient --connect localhost:8080/chat -o localhost  
connected (press CTRL+C to quit)  
> Hello! How are you?  
< Hi! I'm fine, how are you?  
> 
```

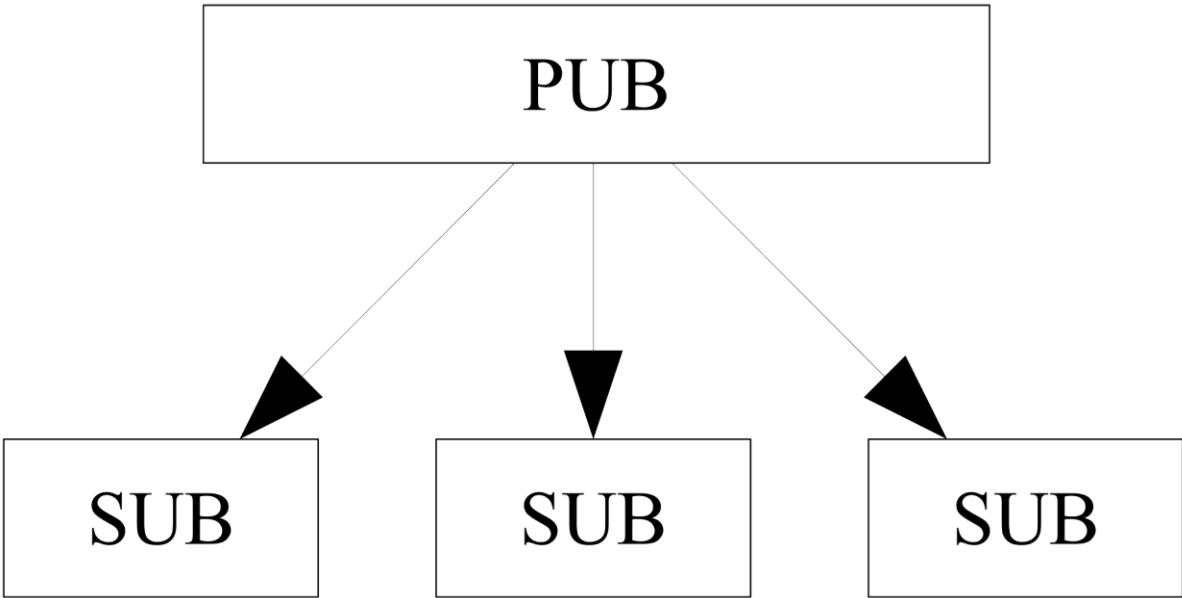


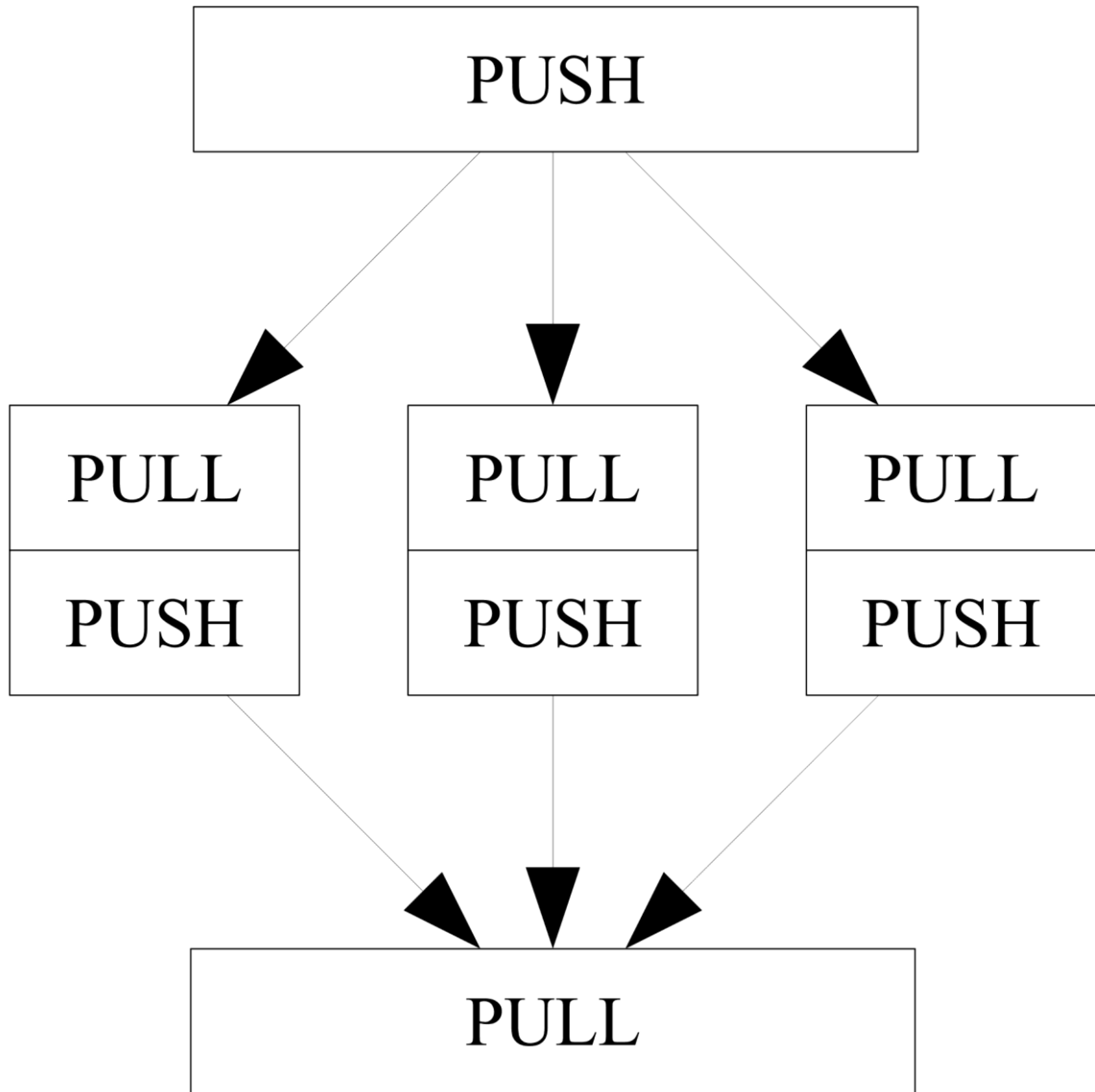
```
mhelmich@martin-centos:~  
[mhelmich@martin-centos ~]# curl -D- localhost:8080/hello  
HTTP/1.1 200 OK  
Content-Type: text/plain  
Content-Length: 13  
  
Hello World!  
[mhelmich@martin-centos ~]#
```

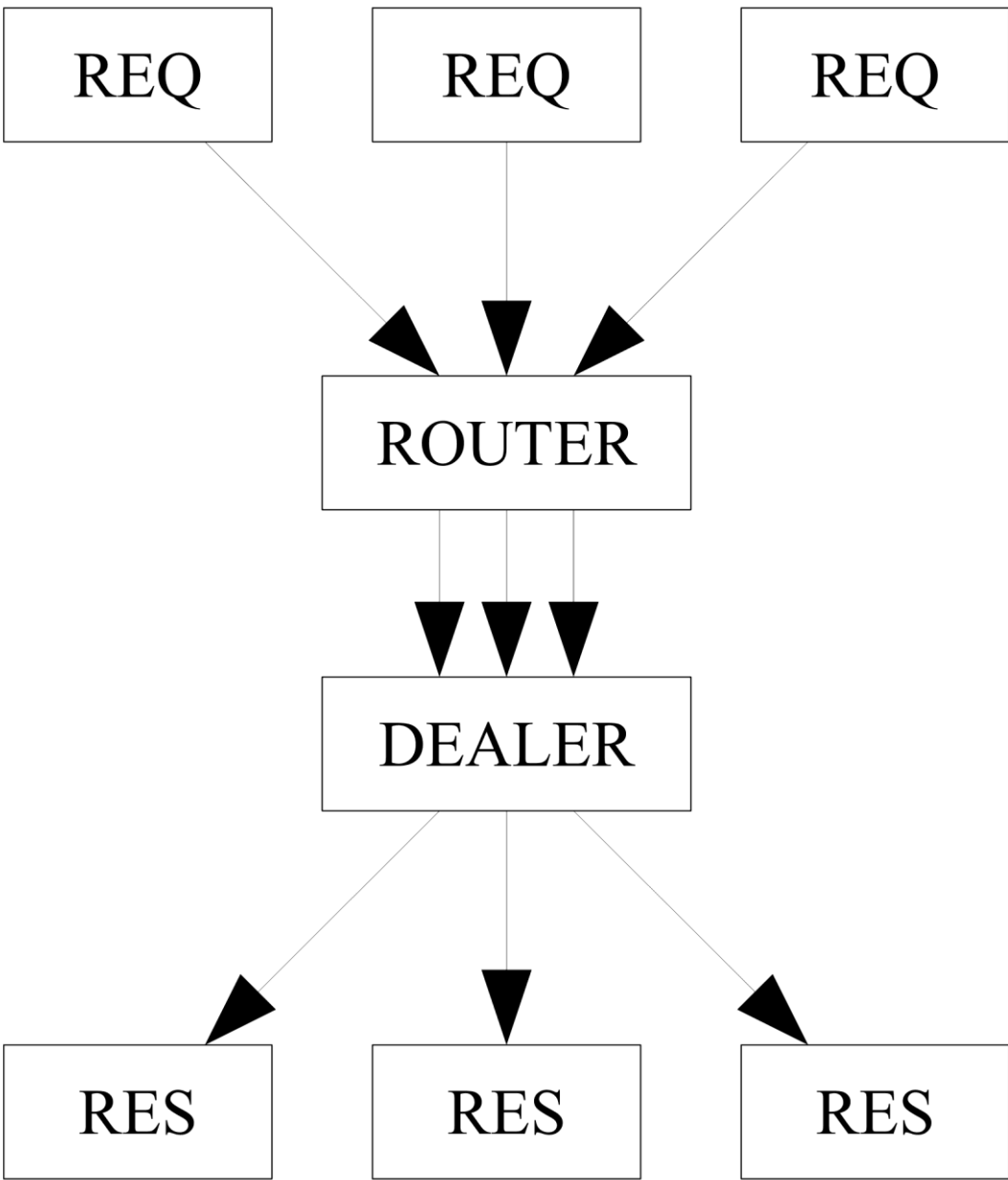


Chapter 7: Building an Asynchronous Microservice Architecture









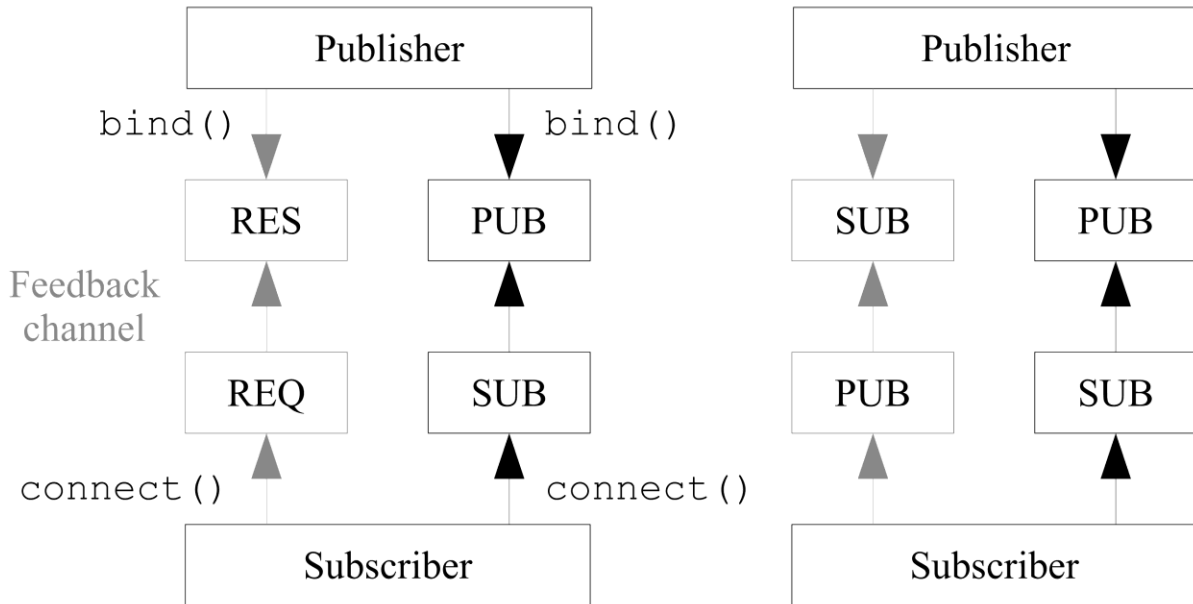
```

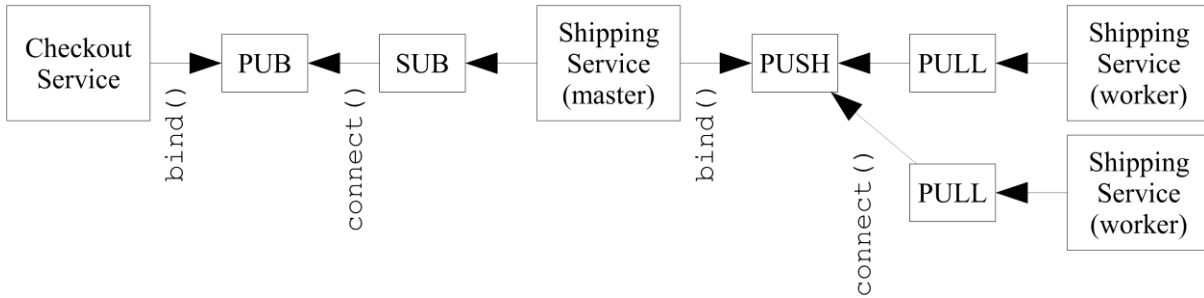
mhelmich@martin-centos:~/Entwicklung/Packt/chp7microservices
[mhelmich@martin-centos:~/Entwicklung/Packt/chp7microservices]$ do
cker-compose run --rm test
sending request {"cart":[{"articlenumber":1000
,"amount":3},{"articlenumber":1001,"amount":2}
]}
received response {"msg":"OK"}
Removing chp7microservices_test_run_1...
[mhelmich@martin-centos:~/Entwicklung/Packt/chp7microservices]$

mhelmich@martin-centos:~/Entwicklung/Packt/chp7microservices 74x31
[mhelmich@martin-centos:~/Entwicklung/Packt/chp7microservices]$ docker-compose up checkout inv
entory
Recreating chp7microservices_inventory_1...
Recreating chp7microservices_checkout_1...
Attaching to chp7microservices_inventory_1, chp7microservices_checkout_1
inventory_1 | Listening on tcp://0.0.0.0:5557
checkout_1 | Listening on tcp://0.0.0.0:5557

checkout_1 | received message {"cart":[{"articlenumber":1000,"amount":3},
{"articlenumber":1001,"amount":2}]}
checkout_1 | sending request {"jsonrpc":"2.0","method":"checkArticle","pa
rams":[1000,3]}
checkout_1 | sending request {"jsonrpc":"2.0","method":"checkArticle","pa
rams":[1001,2]}
checkout_1 | received response {"result":true}
inventory_1 | received request for method checkArticle
inventory_1 | received request for method checkArticle
checkout_1 | received response {"result":true}
checkout_1 | sending request {"jsonrpc":"2.0","method":"takeArticle","par
ams":[1000,3]}
checkout_1 | sending request {"jsonrpc":"2.0","method":"takeArticle","par
ams":[1001,2]}
inventory_1 | received request for method takeArticle
inventory_1 | received request for method takeArticle
checkout_1 | received response {"result":true}
checkout_1 | received response {"result":true}
checkout_1 | responding to message with {"msg":"OK"}

```





```

mhelmich@martin-centos:~/Entwicklung/Packt/chp7microservices
└─┬─ mhelmich@martin-centos:~/Entwicklung/Packt/chp7microservices
   │
   └─ mhelmich@martin-centos:~/Entwicklung/Packt/chp7microservices 108x34
      martin@home $ docker-compose logs
      Attaching to chp7microservices_shippingworker_4, chp7microservices_shippingworker_3, chp7microservices_shippingworker_2, chp7microservices_shippingworker_1, chp7microservices_shippingmaster_1, chp7microservices_mailing_1, chp7microservices_checkout_1, chp7microservices_inventory_1
      mailing_1      | Listening on
      checkout_1    | Listening on tcp://0.0.0.0:5557
      inventory_1   | Listening on tcp://0.0.0.0:5557
      checkout_1    | received checkout order {"cart":{"articlenumber":1000,"amount":3},{"articlenumber":1001,"amount":2},"customer":{"email":"john.doe@example.com"}}
      inventory_1   | received request for method checkArticle
      inventory_1   | received request for method checkArticle
      inventory_1   | received request for method takeArticle
      inventory_1   | received request for method takeArticle
      shippingmaster_1 | dispatching checkout order {"cart":{"articlenumber":1000,"amount":3},{"articlenumber":1001,"amount":2},"customer":{"email":"john.doe@example.com"}} to workers
      mailing_1      | received message {"cart":{"articlenumber":1000,"amount":3},{"articlenumber":1001,"amount":2},"customer":{"email":"john.doe@example.com"}}
      mailing_1      | sending confirmation email to john.doe@example.com
      shippingworker_1 | processing checkout order for shipping: {"cart":{"articlenumber":1000,"amount":3},{"articlenumber":1001,"amount":2},"customer":{"email":"john.doe@example.com"}}
      checkout_1     | received checkout order {"cart":{"articlenumber":1000,"amount":3},{"articlenumber":1001,"amount":2},"customer":{"email":"john.doe@example.com"}}
      inventory_1   | received request for method checkArticle
      inventory_1   | received request for method checkArticle
      inventory_1   | received request for method takeArticle
      inventory_1   | received request for method takeArticle
      mailing_1      | received message {"cart":{"articlenumber":1000,"amount":3},{"articlenumber":1001,"amount":2},"customer":{"email":"john.doe@example.com"}}
      mailing_1      | sending confirmation email to john.doe@example.com
      shippingmaster_1 | dispatching checkout order {"cart":{"articlenumber":1000,"amount":3},{"articlenumber":1001,"amount":2},"customer":{"email":"john.doe@example.com"}} to workers
      shippingworker_2 | processing checkout order for shipping: {"cart":{"articlenumber":1000,"amount":3},{"articlenumber":1001,"amount":2},"customer":{"email":"john.doe@example.com"}}
  
```

```
mhelmich@martin-centos:~/Entwicklung/Packt/chp7microservices
martin@home $ docker-compose -f docker-compose.test.yml run --rm test
Sending request {"cart":{"articlenumber":1000,"amount":3},{articlenumber":1001,"amount":2},"customer":{"email":"john.doe@example.com"}}
received response {"msg":"OK"}
Removing chp7microservices_test_run_1...
martin@home $ docker-compose -f docker-compose.test.yml run --rm test
^[[A
sending request {"cart":{"articlenumber":1000,"amount":3},{articlenumber":1001,"amount":2},"customer":{"email":"john.doe@example.com"}}
received response {"msg":"OK"}
Removing chp7microservices_test_run_1...
martin@home $ docker-compose -f docker-compose.test.yml run --rm test
sending request {"cart":{"articlenumber":1000,"amount":3},{articlenumber":1001,"amount":2},"customer":{"email":"john.doe@example.com"}}
received response {"msg":"OK"}
Removing chp7microservices_test_run_1...
martin@home $

mhelmich@martin-centos:~/Entwicklung/Packt/chp7microservices 108x34
martin@home $ docker-compose logs shippingmaster shippingworker
Attaching to chp7microservices_shippingworker_4, chp7microservices_shippingworker_3, chp7microservices_shippingworker_2, chp7microservices_shippingworker_1, chp7microservices_shippingmaster_1
shippingmaster_1 | dispatching checkout order {"cart":{"articlenumber":1000,"amount":3},"articlenumber":1001,"amount":2},"customer":{"email":"john.doe@example.com"}} to workers
shippingworker_1 | processing checkout order for shipping: {"cart":{"articlenumber":1000,"amount":3},"articlenumber":1001,"amount":2},"customer":{"email":"john.doe@example.com"}}
shippingmaster_1 | order {"cart":{"articlenumber":1000,"amount":3},"articlenumber":1001,"amount":2},"customer":{"email":"john.doe@example.com"}} successfully processed for shipping
shippingmaster_1 | dispatching checkout order {"cart":{"articlenumber":1000,"amount":3},"articlenumber":1001,"amount":2},"customer":{"email":"john.doe@example.com"}} to workers
shippingworker_2 | processing checkout order for shipping: {"cart":{"articlenumber":1000,"amount":3},"articlenumber":1001,"amount":2},"customer":{"email":"john.doe@example.com"}}
shippingworker_3 | processing checkout order for shipping: {"cart":{"articlenumber":1000,"amount":3},"articlenumber":1001,"amount":2},"customer":{"email":"john.doe@example.com"}}
shippingmaster_1 | dispatching checkout order {"cart":{"articlenumber":1000,"amount":3},"articlenumber":1001,"amount":2},"customer":{"email":"john.doe@example.com"}} to workers
shippingmaster_1 | order {"cart":{"articlenumber":1000,"amount":3},"articlenumber":1001,"amount":2},"customer":{"email":"john.doe@example.com"}} successfully processed for shipping
shippingmaster_1 | order {"cart":{"articlenumber":1000,"amount":3},"articlenumber":1001,"amount":2},"customer":{"email":"john.doe@example.com"}} successfully processed for shipping
```

```
mhelmich@martin-centos:~/Entwicklung/Packt/chp7microservices
martin@home $ http -s default -v localhost:8080/orders cart='{"articlenumber":1000,"amount":3}' customer='{"email":"john.doe@example.com"}'
POST /orders HTTP/1.1
Accept: application/json
Accept-Encoding: gzip, deflate
Connection: keep-alive
Content-Length: 95
Content-Type: application/json
Host: localhost:8080
User-Agent: HTTPie/0.9.3

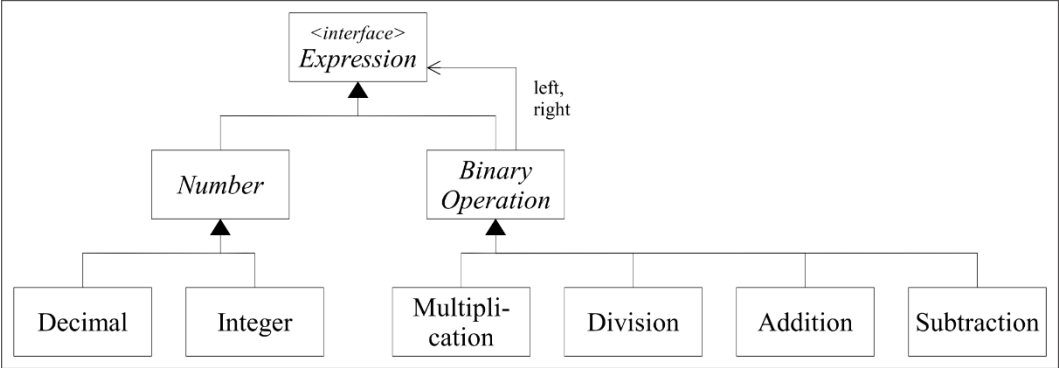
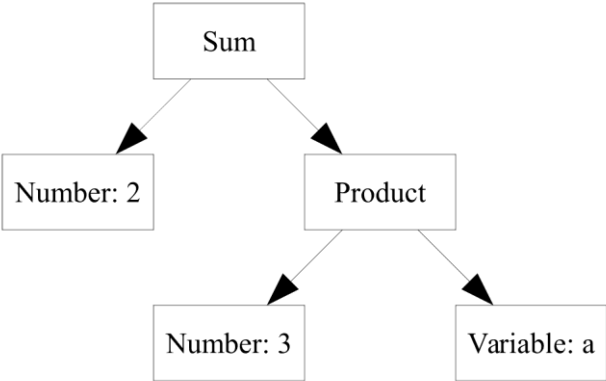
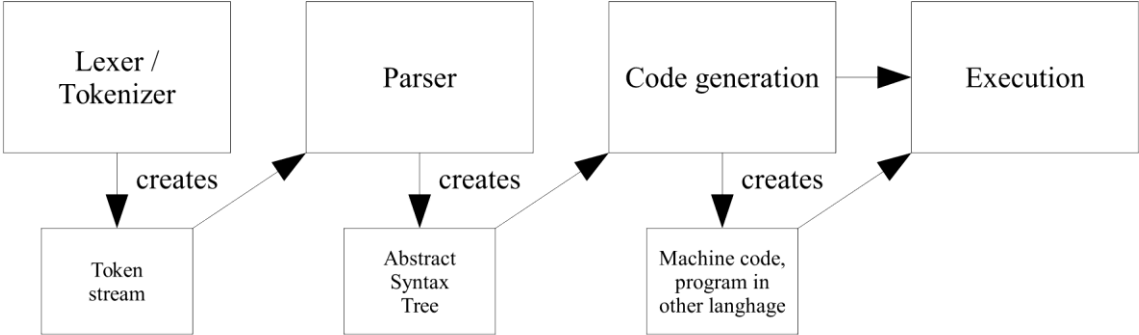
{
  "cart": [
    {
      "amount": 3,
      "articlenumber": 1000
    }
  ],
  "customer": {
    "email": "john.doe@example.com"
  }
}

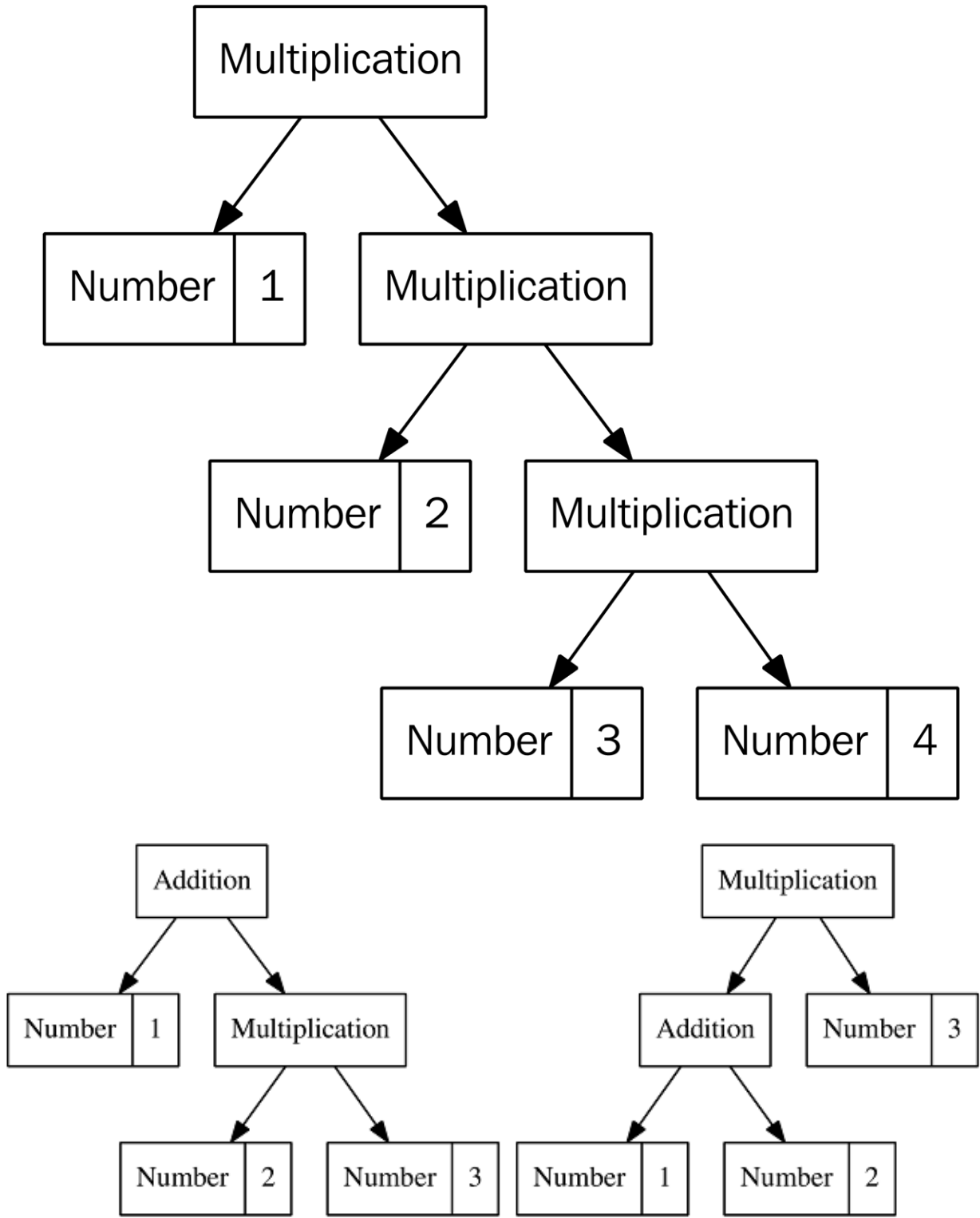
HTTP/1.1 200 OK
Content-Type: application/json;charset=utf8
Transfer-Encoding: chunked
X-Powered-By: React/alpha

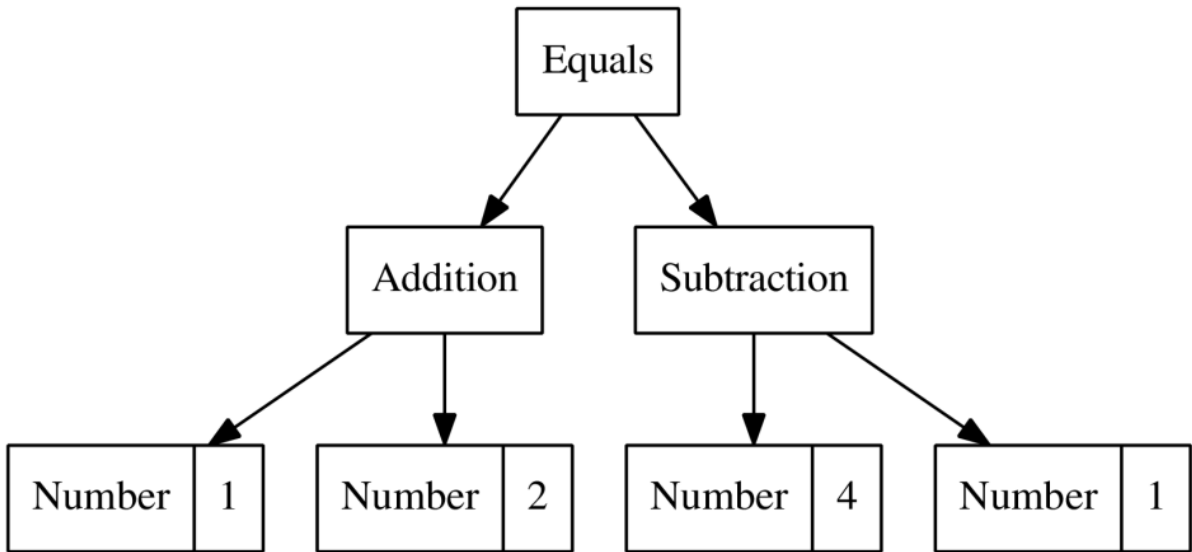
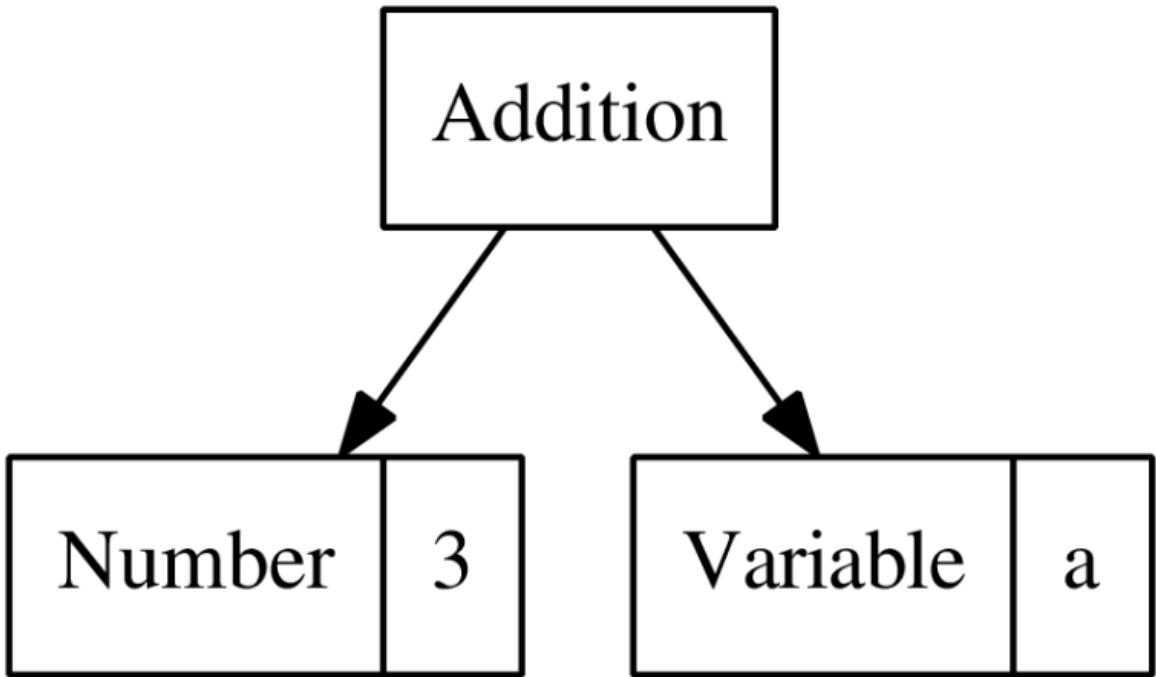
{
  "msg": "checkout order was executed"
}

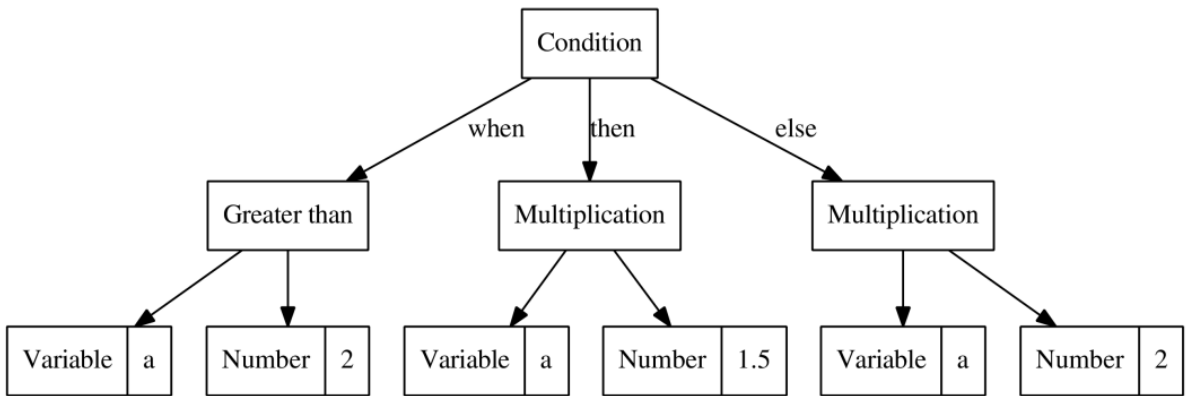
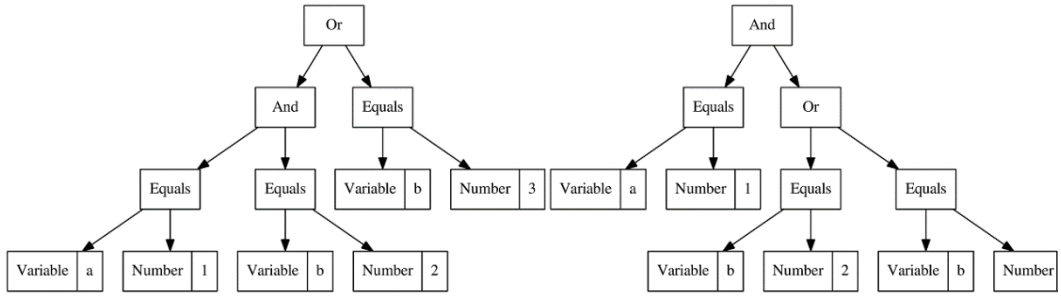
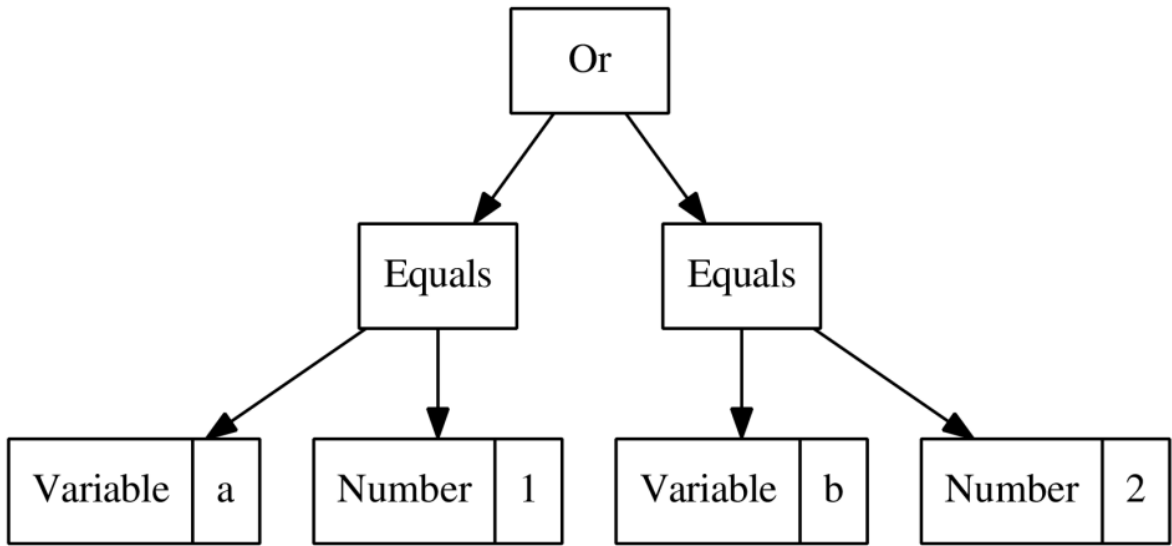
mhelmich@martin-centos:~/Entwicklung/Packt/chp7microservices 108x34
martin@home $ docker-compose logs
Attaching to chp7microservices_shippingworker_1, chp7microservices_shippingmaster_1, chp7microservices_mailing_1, chp7microservices_checkout_1, chp7microservices_inventory_1
mailing_1 | Listening on
checkout_1 | Listening on tcp://0.0.0.0:5557
inventory_1 | Listening on tcp://0.0.0.0:5557
inventory_1 | received request for method checkArticle
inventory_1 | received request for method takeArticle
shippingworker_1 | processing checkout order for shipping: {"cart": [{"articlenumber": 1000, "amount": 3}], "customer": {"email": "john.doe@example.com"}}
checkout_1 | all was written
mailing_1 | received message {"cart": [{"articlenumber": 1000, "amount": 3}], "customer": {"email": "john.doe@example.com"}}
mailing_1 | sending confirmation email to john.doe@example.com
shippingmaster_1 | dispatching checkout order {"cart": [{"articlenumber": 1000, "amount": 3}], "customer": {"email": "john.doe@example.com"}} to workers
shippingmaster_1 | order {"cart": [{"articlenumber": 1000, "amount": 3}], "customer": {"email": "john.doe@example.com"}} successfully processed for shipping
```

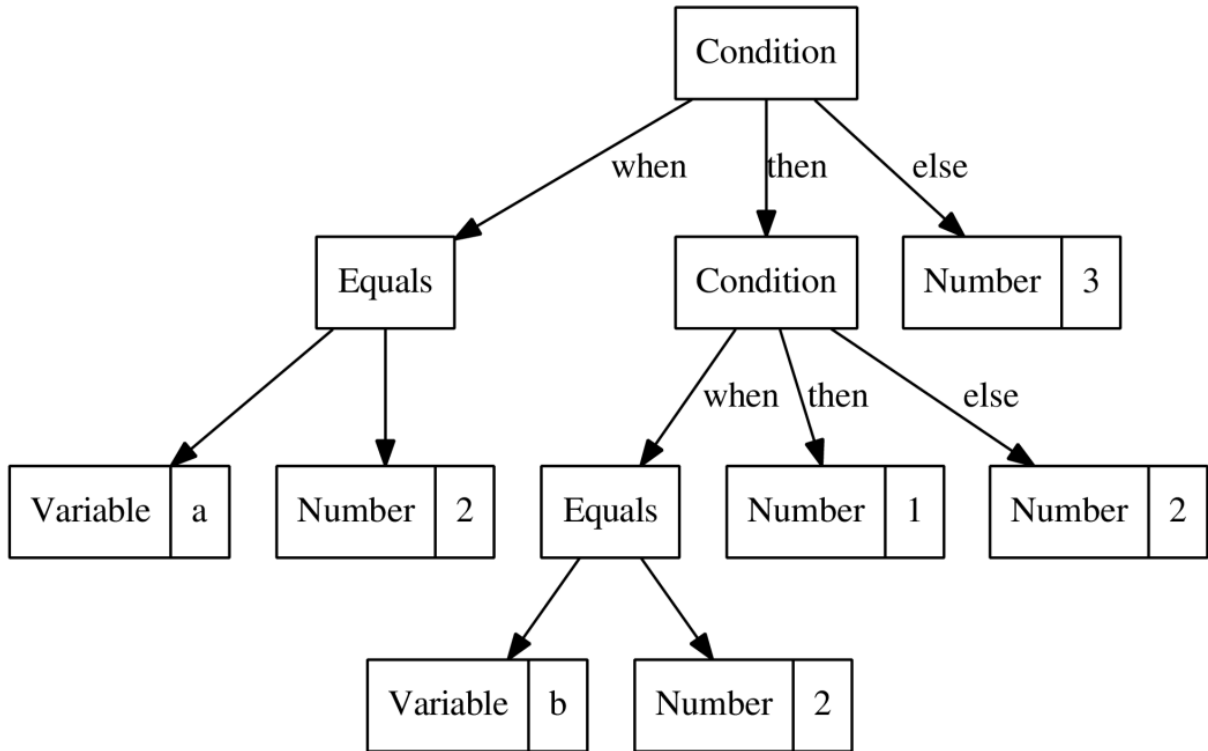
Chapter 8: Building a Parser and Interpreter for a Custom Language







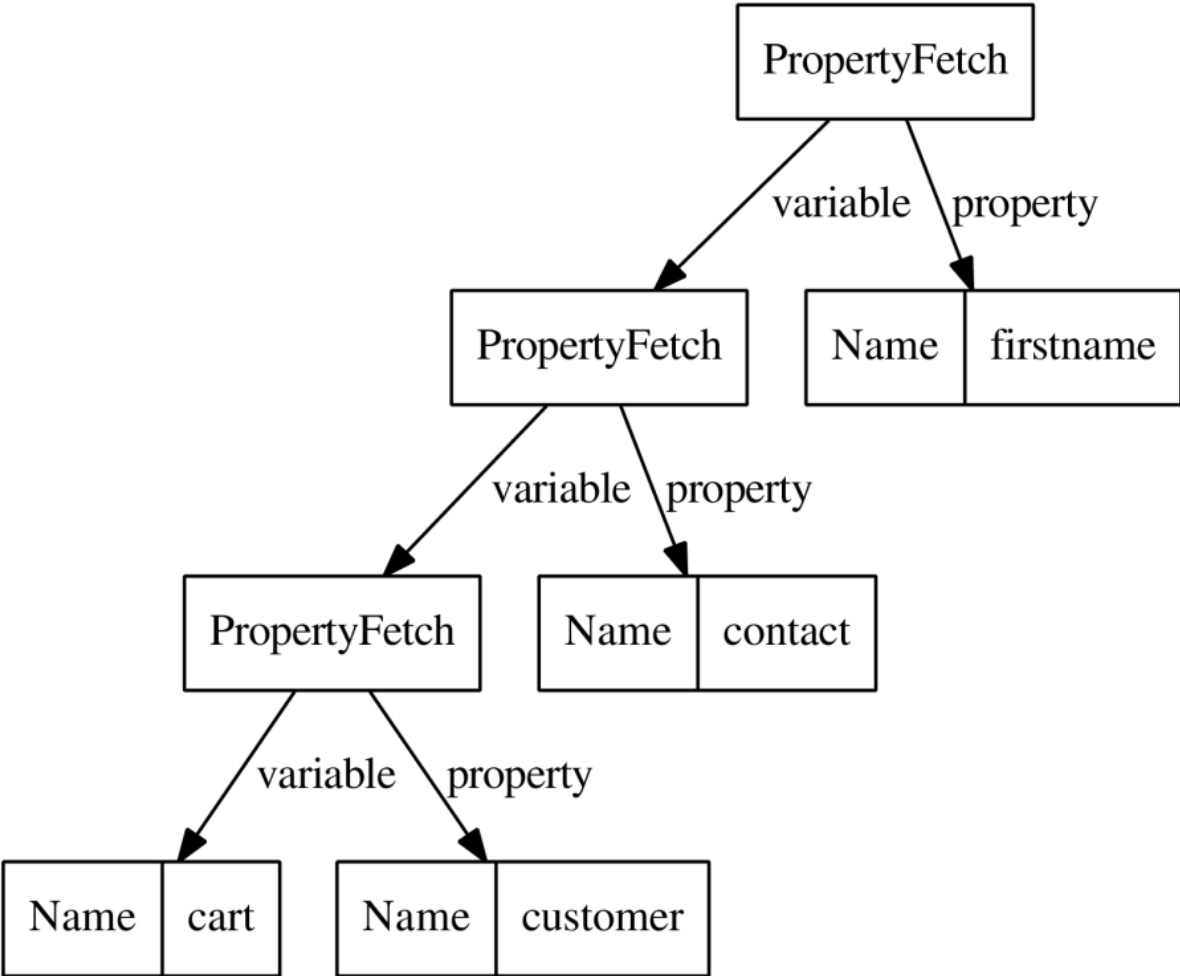


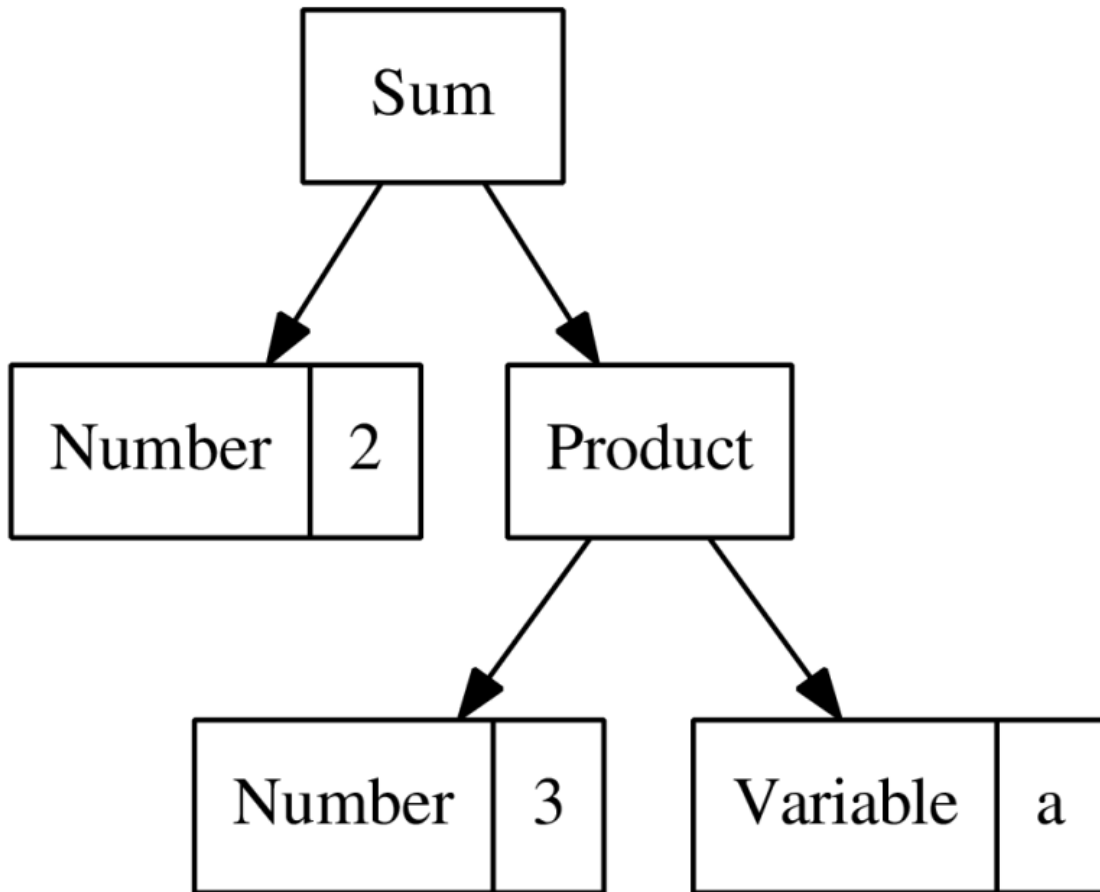


Create new discount rule _ □ ×

Grant discount when

Discount amount to grant





```

docker run --rm -it -v $PWD:/work php:7-vld
docker run --rm -it -v $PWD:/work php:7-vld 136x29
Class class@anonymous:
Function evaluate:
Finding entry points
Branch analysis from position: 0
Jump found. Position 1 = -2
filename: /work/cache/8eff4943aab9d2a72bd1c3a83bf588a2209b8c87.php
function name: evaluate
number of ops: 14
compiled vars: !0 = $variables
line  #* E I O op                fetch      ext  return  operands
-----
  3    0 E >  RECV_INIT                    !0         <array>
  5    1          INIT_STATIC_METHOD_CALL      'Packt%5CChp8%5CDSL%5CAST%5CPropertyFetch', 'evaluateStatic'
  6    2          NEW                          $1         :-1
  7    3          SEND_VAL_EX                    'foo'
  8    4          DO_FCALL                       0
  9    5          INIT_METHOD_CALL              $1, 'evaluate'
 10    6          SEND_VAR_EX                    !0
 11    7          DO_FCALL                       0 $3
 12    8          SEND_VAR_NO_REF                4         $3
 13    9          SEND_VAL_EX                    'bar'
 14   10          DO_FCALL                       0 $4
 15   11          MUL                          -5        $4, 3
 16   12          > RETURN                       -5
 17   13*         > RETURN                       null

branch: # 0; line: 3- 9; sop: 0; eop: 13
path #1: 0,
End of function evaluate
  
```

```

mhelmich@martin-centos:~/Entwicklung/Packt/chp8dsl-simple
mhelmich@martin-centos:~/Entwicklung/Packt/chp8dsl-simple 138x18
martin@home $ vendor/bin/phpbench run bench.php --report default
PhpBench 0.11-dev (@git_sha@). Running benchmarks.

\ParserBenchmark

  benchSimpleExpressionBasicParserIO P0      [µ Mo]/r: 2,211.000 2,211.000 (µs)      [µSD µRSD]/r: 0.000µs 0.00%

1 subjects, 1 iterations, 1 revs, 0 rejects
(best [mean mode] worst) = 2,211.000 [2,211.000 2,211.000] 2,211.000 (µs)
ΣT: 2,211.000µs µSD/r 0.000µs µRSD/r: 0.000%
suite: 1339fa9b80238efa95c4e89beec964b6516021c8, date: 2016-04-25, time: 18:11:52
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| benchmark | subject | groups | params | revs | iter | rej | mem | time | z-value | diff |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| ParserBenchmark | benchSimpleExpressionBasicParser | | [] | 1 | 0 | 0 | 1,759,688b | 2,211.000µs | 0.00σ | 0.00% |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
martin@home $

mhelmich@martin-centos:~/Entwicklung/Packt/chp8dsl-simple
mhelmich@martin-centos:~/Entwicklung/Packt/chp8dsl-simple 143x20
martin@home $ vendor/bin/phpbench run bench.php --report default
PhpBench 0.11-dev (@git_sha@). Running benchmarks.

\ParserBenchmark

  benchSimpleExpressionBasicParserIO P0      [µ Mo]/r: 349.818 349.818 (µs)      [µSD µRSD]/r: 0.000µs 0.00%
  benchSimpleExpressionCompilingParserIO P0 [µ Mo]/r: 33.567 33.567 (µs)      [µSD µRSD]/r: 0.000µs 0.00%

2 subjects, 2 iterations, 10,000 revs, 0 rejects
(best [mean mode] worst) = 33.567 [191.692 191.692] 33.567 (µs)
ΣT: 383.385µs µSD/r 0.000µs µRSD/r: 0.000%
suite: 1339fa91b0c07e30070259bf25af05e99f82140d, date: 2016-04-25, time: 18:23:26
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| benchmark | subject | groups | params | revs | iter | rej | mem | time | z-value | diff |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| ParserBenchmark | benchSimpleExpressionBasicParser | | [] | 5000 | 0 | 0 | 21,125,832b | 349.818µs | 0.00σ | +90.40% |
| ParserBenchmark | benchSimpleExpressionCompilingParser | | [] | 5000 | 0 | 0 | 5,976,800b | 33.567µs | 0.00σ | 0.00% |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
martin@home $

mhelmich@martin-centos:~/Entwicklung/Packt/chp8dsl-simple
mhelmich@martin-centos:~/Entwicklung/Packt/chp8dsl-simple 146x24
martin@home $ vendor/bin/phpbench run bench.php --report default
PhpBench 0.11-dev (@git_sha@). Running benchmarks.

\ParserBenchmark

  benchSimpleExpressionBasicParserIO P0      [µ Mo]/r: 362.293 362.293 (µs)      [µSD µRSD]/r: 0.000µs 0.00%
  benchSimpleExpressionCompilingParserIO P0 [µ Mo]/r: 34.768 34.768 (µs)      [µSD µRSD]/r: 0.000µs 0.00%
  benchComplexExpressionBasicParserIO P0    [µ Mo]/r: 2,576.511 2,576.511 (µs)      [µSD µRSD]/r: 0.000µs 0.00%
  benchComplexExpressionCompilingParserIO P0 [µ Mo]/r: 50.904 50.904 (µs)      [µSD µRSD]/r: 0.000µs 0.00%

4 subjects, 4 iterations, 20,000 revs, 0 rejects
(best [mean mode] worst) = 34.768 [756.119 756.119] 34.768 (µs)
ΣT: 3,024.476µs µSD/r 0.000µs µRSD/r: 0.000%
suite: 1339fa9c4422a6a2195625d21230799c9f3959e0, date: 2016-04-25, time: 18:27:36
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| benchmark | subject | groups | params | revs | iter | rej | mem | time | z-value | diff |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| ParserBenchmark | benchSimpleExpressionBasicParser | | [] | 5000 | 0 | 0 | 21,130,664b | 362.293µs | 0.00σ | +90.40% |
| ParserBenchmark | benchSimpleExpressionCompilingParser | | [] | 5000 | 0 | 0 | 5,981,632b | 34.768µs | 0.00σ | 0.00% |
| ParserBenchmark | benchComplexExpressionBasicParser | | [] | 5000 | 0 | 0 | 21,160,416b | 2,576.511µs | 0.00σ | +98.65% |
| ParserBenchmark | benchComplexExpressionCompilingParser | | [] | 5000 | 0 | 0 | 6,653,392b | 50.904µs | 0.00σ | +31.70% |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
martin@home $

```