

Relazione Applicazione REST Luca Cervello 856222

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1 Devops e Deploy

Ho creato una pipeline di deploy per questo progetto. Usando :

- **github** per avere una repository remota del progetto.
- **travisci** per avere un ambiente in cui i test vengono eseguiti in isolamento.
- **heroku** per fare la build del progetto e esporre il mio servizio.

Ho collegato questi 3 servizi in modo ad avere un workflow completamente automatico. Quindi ogni volta che il codice viene pushato su **github** viene testato su **travisci** e se i test hanno avuto un esito positivo il progetto viene deployato su **heroku**.

2 Identificazione entità

- prodotto
- venditore
- utente
- ordine

3 Design endpoints

Su tutti gli endpoints GET delle varie entità ho deciso di restituire solo gli id perché così l'interfaccia mi sembra più pulita e penso che sia la soluzione più elastica e più slegata dal frontend. ovviamente in base alle esigenze del frontend avremmo potuto restituire sia un sottoinsieme delle informazioni riguardanti le varie entità o addirittura tutte le informazioni riguardanti l'entità. Ho deciso di utilizzare come id delle entità degli UUID (universally unique identifier) al posto di utilizzare degli id generati dal database per aumentare la testabilità del sistema e per le proprietà degli UUID. In tutte le post/put ho deciso di ritornare sempre gli uuid, così poi se c'è bisogno il frontend può chiamare la get e ricevere le informazioni complete se ne ha bisogno. Solo per le preferenze, sottoentità dell'utente, ho deciso di ritornare sempre l'entità per GET, POST, PUT. Essendo le preferenze strettamente collegate al concetto di utente ho deciso di trattarle diversamente.

4 Endpoints

4.1 Prodotti

4.1.1 GET /products

Restituisce gli id dei products. È possibile fare una ricerca per nome passando il parametro q e il nome da cercare o le prime lettere del nome

```
$ curl -v -X GET --header 'Accept: application/json' 'http://searchbuy.herokuapp.com/products'
Note: Unnecessary use of -X or --request, GET is already inferred.
* Trying 52.18.45.95...
* TCP_NODELAY set
* Connected to searchbuy.herokuapp.com (52.18.45.95) port 80 (#0)
> GET /products HTTP/1.1
> Host: searchbuy.herokuapp.com
> User-Agent: curl/7.59.0
> Accept: application/json
>
< HTTP/1.1 200 OK
< Connection: keep-alive
< Set-Cookie: JSESSIONID=4AQKBmIaET9FMGbzMGHZMhd0AHnw0iPgNwtzQEzp; path=/; HttpOnly
< Server: undertow
< X-Xss-Protection: 1; mode=block
< X-Frame-Options: SAMEORIGIN
< Date: Sun, 10 Feb 2019 11:12:00 GMT
< X-Content-Type-Options: nosniff
< Content-Type: application/json; charset=utf-8
< Content-Length: 79
< Via: 1.1 vegur
<
* Connection #0 to host searchbuy.herokuapp.com left intact
["24dd8f69-194b-4702-bb8f-c995e977cebb", "cf9d2b04-c5b0-4812-b8c2-9c012c1ddfd4"]
```

4.1.2 POST /products

Aggiunge un prodotto

```
$ curl -v -X POST --header 'Content-Type: application/json' --header 'Accept: application/json' -d '{
  "name": "PC",
  "type": "working",
  "description": "bello",
  "price": 100000,
  "shipping_type": "priority",
  "revision": 1,
  "merchant": "8a3bddad-e68c-4e4b-926b-5c3f4f491193"
}' 'http://searchbuy.herokuapp.com/products'
Note: Unnecessary use of -X or --request, POST is already inferred.
* Trying 54.246.240.18...
* TCP_NODELAY set
* Connected to searchbuy.herokuapp.com (54.246.240.18) port 80 (#0)
> POST /products HTTP/1.1
> Host: searchbuy.herokuapp.com
> User-Agent: curl/7.59.0
> Content-Type: application/json
> Accept: application/json
> Content-Length: 194
>
* upload completely sent off: 194 out of 194 bytes
< HTTP/1.1 200 OK
< Connection: keep-alive
< Set-Cookie: JSESSIONID=YEdLuQd_7zevwy9m0TyBUnGnDaGhli9gZ6wR7UM; path=/; HttpOnly
< Server: undertow
< X-Xss-Protection: 1; mode=block
< X-Frame-Options: SAMEORIGIN
< Date: Sun, 10 Feb 2019 11:13:11 GMT
< X-Content-Type-Options: nosniff
< Content-Type: application/json; charset=utf-8
< Content-Length: 38
< Via: 1.1 vegur
<
* Connection #0 to host searchbuy.herokuapp.com left intact
{"id":"dbaf908e-21ec-4726-b6c1-e7fc67838ed9","name":"PC","type":"working","description":"bello","price":100000,"shipping_type":"priority","revision":1,"mercha
```

4.1.3 GET /products/:id

Restituisce tutte le informazioni riguardate un prodotto

```
$ curl -v -X GET --header 'Accept: application/json' 'http://searchbuy.herokuapp.com/products/dbaf908e-21ec-4726-b6c1-e7fc67838ed9'
Note: Unnecessary use of -X or --request, GET is already inferred.
* Trying 54.76.75.251...
* TCP_NODELAY set
* Connected to searchbuy.herokuapp.com (54.76.75.251) port 80 (#0)
> GET /products/dbaf908e-21ec-4726-b6c1-e7fc67838ed9 HTTP/1.1
> Host: searchbuy.herokuapp.com
> User-Agent: curl/7.59.0
> Accept: application/json
>
< HTTP/1.1 200 OK
< Connection: keep-alive
< Set-Cookie: JSESSIONID=RSVlk8Sw89Gk0y0qPvsU4aRk_CWx-drPVSL63dNB; path=/; HttpOnly
< Server: undertow
< X-Xss-Protection: 1; mode=block
< X-Frame-Options: SAMEORIGIN
< Date: Sun, 10 Feb 2019 11:15:11 GMT
< X-Content-Type-Options: nosniff
< Content-Type: application/json; charset=utf-8
< Content-Length: 281
< Via: 1.1 vegur
<
* Connection #0 to host searchbuy.herokuapp.com left intact
{"id":"dbaf908e-21ec-4726-b6c1-e7fc67838ed9","name":"PC","type":"working","description":"bello","price":100000,"shipping_type":"priority","revision":1,"mercha
```

4.1.4 PUT /products/:id

Modifica le informazioni riguardanti in prodotto

```
$ curl -v -X PUT --header 'Content-Type: application/json' --header 'Accept: application/json' -d '{
  "name": "PC",
  "type": "working",
  "description": "bellissimo",
  "price": 100000,
  "shipping_type": "priority",
  "revision": 1,
  "merchant": "8a3bddad-e68c-4e4b-926b-5c3f4f491193"
}' 'http://searchbuy.herokuapp.com/products/db1f908e-21ec-4726-b6c1-e7fc67838ed9'
* Trying 54.246.240.18...
* TCP_NODELAY set
* Connected to searchbuy.herokuapp.com (54.246.240.18) port 80 (#0)
> PUT /products/db1f908e-21ec-4726-b6c1-e7fc67838ed9 HTTP/1.1
> Host: searchbuy.herokuapp.com
> User-Agent: curl/7.59.0
> Content-Type: application/json
> Accept: application/json
> Content-Length: 200
>
* upload completely sent off: 200 out of 200 bytes
< HTTP/1.1 200 OK
< Connection: keep-alive
< Set-Cookie: JSESSIONID=NLC0EHB0XQoL3uTaWo0K8P62TTIN1R4GS0U0oft; path=/; HttpOnly
< Server: undertow
< X-Xss-Protection: 1; mode=block
< X-Frame-Options: SAMEORIGIN
< Date: Sun, 10 Feb 2019 11:16:59 GMT
< X-Content-Type-Options: nosniff
< Content-Type: application/json; charset=utf-8
< Content-Length: 38
< Via: 1.1 vegur
<
* Connection #0 to host searchbuy.herokuapp.com left intact
"db1f908e-21ec-4726-b6c1-e7fc67838ed9"
```

4.1.5 DELETE /products/:id

Elimina un prodotto

```
$ curl -v -X DELETE --header 'Accept: application/octet-stream' 'http://searchbuy.herokuapp.com/products/dba528f0-1c4e-407c-860b-e7649e1a5cf5'
* Trying 52.208.186.52...
* TCP_NODELAY set
* Connected to searchbuy.herokuapp.com (52.208.186.52) port 80 (#0)
> DELETE /products/dba528f0-1c4e-407c-860b-e7649e1a5cf5 HTTP/1.1
> Host: searchbuy.herokuapp.com
> User-Agent: curl/7.59.0
> Accept: application/octet-stream
>
< HTTP/1.1 200 OK
< Connection: keep-alive
< Set-Cookie: JSESSIONID=9EAvoH93zXgm_kDoxJzT2bInDqy0HmaoML0WjvQV; path=/; HttpOnly
< Server: undertow
< X-Xss-Protection: 1; mode=block
< X-Frame-Options: SAMEORIGIN
< Date: Sun, 10 Feb 2019 11:14:10 GMT
< X-Content-Type-Options: nosniff
< Content-Type: application/octet-stream
< Content-Length: 0
< Via: 1.1 vegur
<
* Connection #0 to host searchbuy.herokuapp.com left intact
```

4.2 Venditori

4.2.1 GET /merchants

Restituisce gli id dei venditori È possibile fare una ricerca per nome passando il parametro q e il nome da cercare o le prime lettere del nome

```
$ curl -v --header 'Accept: application/json' 'http://searchbuy.herokuapp.com/merchants'

* Trying 54.246.240.18...
* TCP_NODELAY set
* Connected to searchbuy.herokuapp.com (54.246.240.18) port 80 (#0)
> GET /merchants HTTP/1.1
> Host: searchbuy.herokuapp.com
> User-Agent: curl/7.59.0
> Accept: application/json
>
< HTTP/1.1 200 OK
< Connection: keep-alive
< Set-Cookie: JSESSIONID=qfh6cCD4Cor7zsNaqubU97hdDDfYbKdJ2HLPs8LC; path=/; HttpOnly
< Server: undertow
< X-Xss-Protection: 1; mode=block
< X-Frame-Options: SAMEORIGIN
< Date: Sun, 10 Feb 2019 10:34:24 GMT
< X-Content-Type-Options: nosniff
< Content-Type: application/json; charset=utf-8
< Content-Length: 79
< Via: 1.1 vegur
<
* Connection #0 to host searchbuy.herokuapp.com left intact
["72fa13a7-977d-4ee8-aace-9c44bd23c6e5","8a3bddad-e68c-4e4b-926b-5c3f4f491193"]
```

4.2.2 POST /merchants

Aggiunge un venditore

```
$ curl -v -X POST --header 'Content-Type: application/json' --header 'Accept: application/json' -d '{
  "name": "Aldo",
  "type": "food",
  "telephone": "12314556",
  "social_number": "ALDF3213133"
}' 'http://searchbuy.herokuapp.com/merchants'
Note: Unnecessary use of -X or --request, POST is already inferred.
* Trying 52.16.107.201...
* TCP_NODELAY set
* Connected to searchbuy.herokuapp.com (52.16.107.201) port 80 (#0)
> POST /merchants HTTP/1.1
> Host: searchbuy.herokuapp.com
> User-Agent: curl/7.59.0
> Content-Type: application/json
> Accept: application/json
> Content-Length: 107
>
* upload completely sent off: 107 out of 107 bytes
< HTTP/1.1 200 OK
< Connection: keep-alive
< Set-Cookie: JSESSIONID=0xPZL3bLRV5dTnYtsbdePOfdi0AloZBTfWDS8Ba_; path=/; HttpOnly
< Server: undertow
< X-Xss-Protection: 1; mode=block
< X-Frame-Options: SAMEORIGIN
< Date: Sun, 10 Feb 2019 10:38:41 GMT
< X-Content-Type-Options: nosniff
< Content-Type: application/json; charset=utf-8
< Content-Length: 38
< Via: 1.1 vegur
<
* Connection #0 to host searchbuy.herokuapp.com left intact
{"id":"84299c91-eaba-4735-bcc9-1863b3f0ae6b"}
```

4.2.3 GET /merchants/:id

Restituisce tutte le informazioni riguardate un venditore

```
$ curl -v -X GET --header 'Accept: application/json' 'http://searchbuy.herokuapp.com/merchants/8a3bddad-e68c-4e4b-926b-5c3f4f491193'
Note: Unnecessary use of -X or --request, GET is already inferred.
* Trying 52.16.107.201...
* TCP_NODELAY set
* Connected to searchbuy.herokuapp.com (52.16.107.201) port 80 (#0)
> GET /merchants/8a3bddad-e68c-4e4b-926b-5c3f4f491193 HTTP/1.1
> Host: searchbuy.herokuapp.com
> User-Agent: curl/7.59.0
> Accept: application/json
>
< HTTP/1.1 200 OK
< Connection: keep-alive
< Set-Cookie: JSESSIONID=5mVHPkcgP0d7JX0nOE6VPg8MA_ljXMN-ABYoX6Af; path=/; HttpOnly
< Server: undertow
< X-Xss-Protection: 1; mode=block
< X-Frame-Options: SAMEORIGIN
< Date: Sun, 10 Feb 2019 10:42:07 GMT
< X-Content-Type-Options: nosniff
< Content-Type: application/json; charset=utf-8
< Content-Length: 128
< Via: 1.1 vegur
<
* Connection #0 to host searchbuy.herokuapp.com left intact
{"id":"8a3bddad-e68c-4e4b-926b-5c3f4f491193","name":"Giovanni","type":"tech","telephone":"123456","social_number":"CRV213HSDAH"}
```

4.2.4 PUT /merchants/:id

Modifica le informazioni riguardanti in venditore

```
$ curl -v -X PUT --header 'Content-Type: application/json' --header 'Accept: application/json' -d '{
  "name": "Giacomo",
  "type": "tech",
  "telephone": "12345677890",
  "social_number": "GCM123456"
}' 'http://searchbuy.herokuapp.com/merchants/8a3bddad-e68c-4e4b-926b-5c3f4f491193'
* Trying 52.17.22.87...
* TCP_NODELAY set
* Connected to searchbuy.herokuapp.com (52.17.22.87) port 80 (#0)
> PUT /merchants/8a3bddad-e68c-4e4b-926b-5c3f4f491193 HTTP/1.1
> Host: searchbuy.herokuapp.com
> User-Agent: curl/7.59.0
> Content-Type: application/json
> Accept: application/json
> Content-Length: 111
>
* upload completely sent off: 111 out of 111 bytes
< HTTP/1.1 200 OK
< Connection: keep-alive
< Set-Cookie: JSESSIONID=ZPedf0-spSGEkRCdX3zExa0hiqCtXZellsz2G0dW; path=/; HttpOnly
< Server: undertow
< X-Xss-Protection: 1; mode=block
< X-Frame-Options: SAMEORIGIN
< Date: Sun, 10 Feb 2019 10:43:41 GMT
< X-Content-Type-Options: nosniff
< Content-Type: application/json; charset=utf-8
< Content-Length: 38
< Via: 1.1 vegur
<
* Connection #0 to host searchbuy.herokuapp.com left intact
{"id":"8a3bddad-e68c-4e4b-926b-5c3f4f491193","name":"Giacomo","type":"tech","telephone":"12345677890","social_number":"GCM123456"}
```

4.2.5 DELETE /merchants/:id

Elimina un venditore

```
$ curl -v -X DELETE 'http://searchbuy.herokuapp.com/merchants/5ca6ccf6-3aed-4cbd-ad74-014915929379'
* Trying 52.17.22.87...
* TCP_NODELAY set
* Connected to searchbuy.herokuapp.com (52.17.22.87) port 80 (#0)
> DELETE /merchants/5ca6ccf6-3aed-4cbd-ad74-014915929379 HTTP/1.1
> Host: searchbuy.herokuapp.com
> User-Agent: curl/7.59.0
> Accept: */*
>
< HTTP/1.1 200 OK
< Connection: keep-alive
< Set-Cookie: JSESSIONID=qx19yRxrUidr1SEkByxTuHTcMLy4KpA7QSwJ0V7P; path=/; HttpOnly
< Server: undertow
< X-Xss-Protection: 1; mode=block
< X-Frame-Options: SAMEORIGIN
< Date: Sun, 10 Feb 2019 10:40:45 GMT
< X-Content-Type-Options: nosniff
< Content-Type: application/octet-stream
< Content-Length: 0
< Via: 1.1 vegur
<
* Connection #0 to host searchbuy.herokuapp.com left intact
```

4.2.6 GET /merchants/:id/products

Restituisce gli id di tutti i prodotti del venditore

```
$ curl -v -X GET --header 'Accept: application/json' 'http://searchbuy.herokuapp.com/merchants/8a3bddad-e68c-4e4b-926b-5c3f4f491193/products'
Note: Unnecessary use of -X or --request, GET is already inferred.
* Trying 54.229.228.4...
* TCP_NODELAY set
* Connected to searchbuy.herokuapp.com (54.229.228.4) port 80 (#0)
> GET /merchants/8a3bddad-e68c-4e4b-926b-5c3f4f491193/products HTTP/1.1
> Host: searchbuy.herokuapp.com
> User-Agent: curl/7.59.0
> Accept: application/json
>
< HTTP/1.1 200 OK
< Connection: keep-alive
< Set-Cookie: JSESSIONID=xjOvCZSuXAbqhmgWxo5C5K3SRQlsOG06JaxWR1S; path=/; HttpOnly
< Server: undertow
< X-Xss-Protection: 1; mode=block
< X-Frame-Options: SAMEORIGIN
< Date: Sun, 10 Feb 2019 11:09:59 GMT
< X-Content-Type-Options: nosniff
< Content-Type: application/json; charset=utf-8
< Content-Length: 79
< Via: 1.1 vegur
<
* Connection #0 to host searchbuy.herokuapp.com left intact
["24dd8f69-194b-4702-bb8f-c995e977cebb","cf9d2b04-c5b0-4812-b8c2-9c012c1ddfd4"]
```

4.3 Utenti

4.3.1 GET /users

Restituisce gli id dei utenti È possibile fare una ricerca per nome passando il parametro q e il nome da cercare o le prime lettere del nome


```
$ curl -v -X GET --header 'Accept: application/json' 'http://searchbuy.herokuapp.com/users'

Note: Unnecessary use of -X or --request, GET is already inferred.
* Trying 52.17.199.150...
* TCP_NODELAY set
* Connected to searchbuy.herokuapp.com (52.17.199.150) port 80 (#0)
> GET /users HTTP/1.1
> Host: searchbuy.herokuapp.com
> User-Agent: curl/7.59.0
> Accept: application/json
>
< HTTP/1.1 200 OK
< Connection: keep-alive
< Set-Cookie: JSESSIONID=JISR4FLGUiFBAntJ4SeXpKncElDWgbA5dfsyROLH; path=/; HttpOnly
< Server: undertow
< X-Xss-Protection: 1; mode=block
< X-Frame-Options: SAMEORIGIN
< Date: Sun, 10 Feb 2019 11:20:03 GMT
< X-Content-Type-Options: nosniff
< Content-Type: application/json; charset=utf-8
< Content-Length: 118
< Via: 1.1 vegur
<
* Connection #0 to host searchbuy.herokuapp.com left intact
["22f0c082-d578-4733-8770-93c546fe3025","171bc909-8d5b-4d2b-adee-bf63bcab980b","4427e6f4-e55e-4398-bb13-81c48f761a97"]
```

4.3.2 POST /users

Aggiunge un utente

```
$ curl -v -X POST --header 'Content-Type: application/json' --header 'Accept: application/json' -d '{
  "first_name": "Luca",
  "last_name": "Cervello",
  "email": "l.cX40a.com",
  "pass": "dadad"
}' 'http://searchbuy.herokuapp.com/users'

Note: Unnecessary use of -X or --request, POST is already inferred.
* Trying 52.18.165.114...
* TCP_NODELAY set
* Connected to searchbuy.herokuapp.com (52.18.165.114) port 80 (#0)
> POST /users HTTP/1.1
> Host: searchbuy.herokuapp.com
> User-Agent: curl/7.59.0
> Content-Type: application/json
> Accept: application/json
> Content-Length: 107
>
* upload completely sent off: 107 out of 107 bytes
< HTTP/1.1 200 OK
< Connection: keep-alive
< Set-Cookie: JSESSIONID=uwggWGSbPvEFn-N67oN7gdp0sblqQXGunXeczTZ5; path=/; HttpOnly
< Server: undertow
< X-Xss-Protection: 1; mode=block
< X-Frame-Options: SAMEORIGIN
< Date: Sun, 10 Feb 2019 11:23:01 GMT
< X-Content-Type-Options: nosniff
< Content-Type: application/json; charset=utf-8
< Content-Length: 38
< Via: 1.1 vegur
<
* Connection #0 to host searchbuy.herokuapp.com left intact
{"a29f1d87-db7f-49c3-8964-052f859fe971"}
```

4.3.3 GET /users/:id

Restituisce tutte le informazioni riguardate un utente

```
$ curl -v -X GET --header 'Accept: application/json' 'http://searchbuy.herokuapp.com/users/22f0c082-d578-4733-8770-93c546fe3025'

Note: Unnecessary use of -X or --request, GET is already inferred.
* Trying 52.18.165.114...
* TCP_NODELAY set
* Connected to searchbuy.herokuapp.com (52.18.165.114) port 80 (#0)
> GET /users/22f0c082-d578-4733-8770-93c546fe3025 HTTP/1.1
> Host: searchbuy.herokuapp.com
> User-Agent: curl/7.59.0
> Accept: application/json
>
< HTTP/1.1 200 OK
< Connection: keep-alive
< Set-Cookie: JSESSIONID=gZFjdJlv_q55bdIT8BQ1EHFo7GX8-gUH20wSnnVg; path=/; HttpOnly
< Server: undertow
< X-Xss-Protection: 1; mode=block
< X-Frame-Options: SAMEORIGIN
< Date: Sun, 10 Feb 2019 12:56:22 GMT
< X-Content-Type-Options: nosniff
< Content-Type: application/json; charset=utf-8
< Content-Length: 123
< Via: 1.1 vegur
<
* Connection #0 to host searchbuy.herokuapp.com left intact
{"id":"22f0c082-d578-4733-8770-93c546fe3025","first_name":"Luca","last_name":"Cervello","email":"l.c@a.com","pass":"dadad"}

```

4.3.4 PUT /users/:id

Modifica le informazioni riguardanti in utente

```
$ curl -v -X PUT --header 'Content-Type: application/json' --header 'Accept: application/json' -d '{
  "first_name": "Luca",
  "last_name": "Cervello",
  "email": "l.c%40a.com",
  "pass": "sasasas"
}' 'http://searchbuy.herokuapp.com/users/22f0c082-d578-4733-8770-93c546fe3025'

* Trying 34.247.132.237...
* TCP_NODELAY set
* Connected to searchbuy.herokuapp.com (34.247.132.237) port 80 (#0)
> PUT /users/22f0c082-d578-4733-8770-93c546fe3025 HTTP/1.1
> Host: searchbuy.herokuapp.com
> User-Agent: curl/7.59.0
> Content-Type: application/json
> Accept: application/json
> Content-Length: 108
>
* upload completely sent off: 108 out of 108 bytes
< HTTP/1.1 200 OK
< Connection: keep-alive
< Set-Cookie: JSESSIONID=kXQMwgHW6H9h0IT5pntnke1rioAMftFhYkiwpzFB; path=/; HttpOnly
< Server: undertow
< X-Xss-Protection: 1; mode=block
< X-Frame-Options: SAMEORIGIN
< Date: Sun, 10 Feb 2019 12:57:37 GMT
< X-Content-Type-Options: nosniff
< Content-Type: application/json; charset=utf-8
< Content-Length: 38
< Via: 1.1 vegur
<
* Connection #0 to host searchbuy.herokuapp.com left intact
"22f0c082-d578-4733-8770-93c546fe3025"

```

4.3.5 DELETE /users/:id

Elimina un utente

```
$ curl -v -X DELETE 'http://searchbuy.herokuapp.com/users/a29fd87-db7f-49c3-8964-052f859fe971'
* Trying 34.253.59.97...
* TCP_NODELAY set
* Connected to searchbuy.herokuapp.com (34.253.59.97) port 80 (#0)
> DELETE /users/a29fd87-db7f-49c3-8964-052f859fe971 HTTP/1.1
> Host: searchbuy.herokuapp.com
> User-Agent: curl/7.59.0
> Accept: */*
>
< HTTP/1.1 200 OK
< Connection: keep-alive
< Set-Cookie: JSESSIONID=Nw9wVzZnaeiZ-qZEDuXyyAQeeZx1pojWxJE7z2e0; path=/; HttpOnly
< Server: undertow
< X-Xss-Protection: 1; mode=block
< X-Frame-Options: SAMEORIGIN
< Date: Sun, 10 Feb 2019 11:24:27 GMT
< X-Content-Type-Options: nosniff
< Content-Type: application/octet-stream
< Content-Length: 0
< Via: 1.1 vegur
<
* Connection #0 to host searchbuy.herokuapp.com left intact
```

4.3.6 GET /users/:id/preferences

Restituisce tutte le informazioni riguardanti le preferenze

```
$ curl -v -X GET --header 'Accept: application/json' 'http://searchbuy.herokuapp.com/users/22f0c082-d578-4733-8770-93c546fe3025/preferences'
Note: Unnecessary use of -X or --request, GET is already inferred.
* Trying 54.76.75.251...
* TCP_NODELAY set
* Connected to searchbuy.herokuapp.com (54.76.75.251) port 80 (#0)
> GET /users/22f0c082-d578-4733-8770-93c546fe3025/preferences HTTP/1.1
> Host: searchbuy.herokuapp.com
> User-Agent: curl/7.59.0
> Accept: application/json
>
< HTTP/1.1 200 OK
< Connection: keep-alive
< Set-Cookie: JSESSIONID=5Na3mdw7n_de03DG8-TCfmvsUQqELAH19wd-48Z1; path=/; HttpOnly
< Server: undertow
< X-Xss-Protection: 1; mode=block
< X-Frame-Options: SAMEORIGIN
< Date: Sun, 10 Feb 2019 13:19:59 GMT
< X-Content-Type-Options: nosniff
< Content-Type: application/json; charset=utf-8
< Content-Length: 130
< Via: 1.1 vegur
<
* Connection #0 to host searchbuy.herokuapp.com left intact
{"id":"20492b64-d794-482c-88fa-7b96f5df4c9c","privacy":false,"user_id":"22f0c082-d578-4733-8770-93c546fe3025","category":["food"]}
```

4.3.7 POST /users/:id/preferences

Aggiunge le preferenze per l'utente

```
$ curl -v -X POST --header 'Content-type: application/json' --header 'Accept: application/json' -d '{
  "privacy": true,
  "category": [
    "food"
  ]
}' 'http://searchbuy.herokuapp.com/users/22f0c082-d578-4733-8770-93c546fe3025/preferences'
Note: Unnecessary use of -X or --request, POST is already inferred.
* Trying 34.241.124.192...
* TCP_NODELAY set
* Connected to searchbuy.herokuapp.com (34.241.124.192) port 80 (#0)
> POST /users/22f0c082-d578-4733-8770-93c546fe3025/preferences HTTP/1.1
> Host: searchbuy.herokuapp.com
> User-Agent: curl/7.59.0
> Content-Type: application/json
> Accept: application/json
> Content-Length: 62
>
* upload completely sent off: 62 out of 62 bytes
< HTTP/1.1 200 OK
< Connection: keep-alive
< Set-Cookie: JSESSIONID=auYPVDLqGQrb5680GaiJqc_zGsIGlirIRNTLOVop; path=/; HttpOnly
< Server: undertow
< X-Xss-Protection: 1; mode=block
< X-Frame-Options: SAMEORIGIN
< Date: Sun, 10 Feb 2019 12:59:27 GMT
< X-Content-Type-Options: nosniff
< Content-Type: application/json; charset=utf-8
< Content-Length: 129
< Via: 1.1 vegur
<
* Connection #0 to host searchbuy.herokuapp.com left intact
{"id":"117dc6b1-a31b-44a7-bfe1-c9c7cf76a130","privacy":true,"user_id":"22f0c082-d578-4733-8770-93c546fe3025","category":["food"]}
```

4.3.8 PUT /users/:id/preferences

Modifica le preferenze per l'utente

```
$ curl -X PUT --header 'Content-type: application/json' --header 'Accept: application/json' -d '{
  "privacy": false,
  "category": [
    "food"
  ]
}' 'http://searchbuy.herokuapp.com/users/22f0c082-d578-4733-8770-93c546fe3025/preferences'
{"id":"29492b64-d794-482c-80fa-7b96f5df4c9c","privacy":false,"user_id":"22f0c082-d578-4733-8770-93c546fe3025","category":["food"]}
```

4.3.9 DELETE /users/:id/preferences

Elimina le preferenze per l'utente

```
$ curl -v -X DELETE 'http://searchbuy.herokuapp.com/users/22f0c082-d578-4733-8770-93c546fe3025/preferences'
* Trying 52.213.70.160...
* TCP_NODELAY set
* Connected to searchbuy.herokuapp.com (52.213.70.160) port 80 (#0)
> DELETE /users/22f0c082-d578-4733-8770-93c546fe3025/preferences HTTP/1.1
> Host: searchbuy.herokuapp.com
> User-Agent: curl/7.59.0
> Accept: */*
>
< HTTP/1.1 200 OK
< Connection: Keep-alive
< Set-Cookie: JSESSIONID=zbwRLURtBqqG5Qvio1iEJrvxMG65lrMpP4tHak41; path=/; HttpOnly
< Server: undertow
< X-Xss-Protection: 1; mode=block
< X-Frame-Options: SAMEORIGIN
< Date: Sun, 10 Feb 2019 13:20:35 GMT
< X-Content-Type-Options: nosniff
< Content-Type: application/octet-stream
< Content-Length: 0
< Via: 1.1 vegur
<
* Connection #0 to host searchbuy.herokuapp.com left intact
```

4.3.10 GET /users/:id/orders

Restituisce tutti gli id degli ordini dell'utente

```
$ curl -v -X GET --header 'Accept: application/json' 'http://searchbuy.herokuapp.com/users/171bc909-8d5b-4d2b-adee-bf63bcab980b/orders'

Note: Unnecessary use of -X or --request, GET is already inferred.
* Trying 54.246.240.18...
* TCP_NODELAY set
* Connected to searchbuy.herokuapp.com (54.246.240.18) port 80 (#0)
> GET /users/171bc909-8d5b-4d2b-adee-bf63bcab980b/orders HTTP/1.1
> Host: searchbuy.herokuapp.com
> User-Agent: curl/7.59.0
> Accept: application/json
>
< HTTP/1.1 200 OK
< Connection: keep-alive
< Set-Cookie: JSESSIONID=BR8HYdYZA3bmQXI7K7CGAAH2TjQhD9-__AngDMS1; path=/; HttpOnly
< Server: undertow
< X-Xss-Protection: 1; mode=block
< X-Frame-Options: SAMEORIGIN
< Date: Sun, 10 Feb 2019 14:20:17 GMT
< X-Content-Type-Options: nosniff
< Content-Type: application/json; charset=utf-8
< Content-Length: 40
< Via: 1.1 vegur
<
* Connection #0 to host searchbuy.herokuapp.com left intact
["6a2cb81f-40ff-42d7-90a3-1fa4f8a2eb1e"]
```

4.4 Ordini

4.4.1 GET /orders

Restituisce tutti gli id degli ordini

```
$ curl -v -X GET --header 'Accept: application/json' 'http://searchbuy.herokuapp.com/orders'

Note: Unnecessary use of -X or --request, GET is already inferred.
* Trying 52.208.186.52...
* TCP_NODELAY set
* Connected to searchbuy.herokuapp.com (52.208.186.52) port 80 (#0)
> GET /orders HTTP/1.1
> Host: searchbuy.herokuapp.com
> User-Agent: curl/7.59.0
> Accept: application/json
>
< HTTP/1.1 200 OK
< Connection: keep-alive
< Set-Cookie: JSESSIONID=gorlIClfBlk1vtR5zl1_PlqLGT97M0kCY_Pn7TlD; path=/; HttpOnly
< Server: undertow
< X-Xss-Protection: 1; mode=block
< X-Frame-Options: SAMEORIGIN
< Date: Sun, 10 Feb 2019 13:44:52 GMT
< X-Content-Type-Options: nosniff
< Content-Type: application/json; charset=utf-8
< Content-Length: 79
< Via: 1.1 vegur
<
* Connection #0 to host searchbuy.herokuapp.com left intact
["e36442bb-e019-42b1-90af-697618a66e03","f5f82861-8078-4a60-ac7f-77a8dcb99807"]
```

4.4.2 POST /orders

Aggiunge un ordine

```
$ curl -v -X POST --header 'Content-Type: application/json' --header 'Accept: application/json' -d '{
  "order_date": "2019-02-10",
  "estimated_delivery_date": "2019-02-10",
  "merchant_id": "8a3bddad-e68c-4e4b-926b-5c3f4f491193",
  "product_id": "cf9d2b04-c5b0-4812-b8c2-9c012c1ddfd4",
  "user_id": "171bc909-8d5b-4d2b-adee-bf63bcab980b"
}' 'http://searchbuy.herokuapp.com/orders'
Note: Unnecessary use of -X or --request, POST is already inferred.
* Trying 52.48.160.128...
* TCP_NODELAY set
* Connected to searchbuy.herokuapp.com (52.48.160.128) port 80 (#0)
> POST /orders HTTP/1.1
> Host: searchbuy.herokuapp.com
> User-Agent: curl/7.59.0
> Content-Type: application/json
> Accept: application/json
> Content-Length: 250
>
* upload completely sent off: 250 out of 250 bytes
< HTTP/1.1 200 OK
< Connection: keep-alive
< Set-Cookie: JSESSIONID=3yAHE1M_nJ8FM9tfNrxqQVsbnc-8cQEky9yi2Vq7; path=/; HttpOnly
< Server: undertow
< X-Xss-Protection: 1; mode=block
< X-Frame-Options: SAMEORIGIN
< Date: Sun, 10 Feb 2019 13:44:20 GMT
< X-Content-Type-Options: nosniff
< Content-Type: application/json; charset=utf-8
< Content-Length: 38
< Via: 1.1 vegur
<
* Connection #0 to host searchbuy.herokuapp.com left intact
"f5f82861-8078-4a60-ac7f-77a8dcb99807"
```

4.4.3 GET /orders/:id

Restituisce tutte le informazioni riguardate un ordine

```
$ curl -v -X GET --header 'Accept: application/json' 'http://searchbuy.herokuapp.com/orders/e7975b74-7d0b-4fa4-bf61-52c413100e3e'
Note: Unnecessary use of -X or --request, GET is already inferred.
* Trying 52.31.22.29...
* TCP_NODELAY set
* Connected to searchbuy.herokuapp.com (52.31.22.29) port 80 (#0)
> GET /orders/e7975b74-7d0b-4fa4-bf61-52c413100e3e HTTP/1.1
> Host: searchbuy.herokuapp.com
> User-Agent: curl/7.59.0
> Accept: application/json
>
< HTTP/1.1 200 OK
< Connection: keep-alive
< Set-Cookie: JSESSIONID=WcctLfGEPW9M2kolzi9mb0G5iVlces0A2eBrCIs; path=/; HttpOnly
< Server: undertow
< X-Xss-Protection: 1; mode=block
< X-Frame-Options: SAMEORIGIN
< Date: Sun, 10 Feb 2019 13:53:34 GMT
< X-Content-Type-Options: nosniff
< Content-Type: application/json; charset=utf-8
< Content-Length: 264
< Via: 1.1 vegur
<
* Connection #0 to host searchbuy.herokuapp.com left intact
{"id":"e7975b74-7d0b-4fa4-bf61-52c413100e3e","order_date":"2019-02-10","estimated_delivery_date":"2019-02-10","merchant_id":"8a3bddad-e68c-4e4b-926b-5c3f4f491193","product_id":"cf9d2b04-c5b0-4812-b8c2-9c012c1ddfd4","user_id":"171bc909-8d5b-4d2b-adee-bf63bcab980b"}
```

4.4.4 PUT /orders/:id

Modifica le informazioni riguardanti in ordine

```
$ curl -v -X PUT --header 'Content-Type: application/json' --header 'Accept: application/json' -d '{
  "order_date": "2019-02-10",
  "estimated_delivery_date": "2019-02-15",
  "merchant_id": "8a3bddad-e68c-4e4b-926b-5c3f4f491193",
  "product_id": "cf9d2b04-c5b0-4812-b8c2-9c012c1ddfd4",
  "user_id": "171bc909-8d5b-4d2b-adee-bf63bcab980b"
}' 'http://searchbuy.herokuapp.com/orders/e7975b74-7d0b-4fa4-bf61-52c413100e3e'
* Trying 52.18.45.95...
* TCP_NODELAY set
* Connected to searchbuy.herokuapp.com (52.18.45.95) port 80 (#0)
> PUT /orders/e7975b74-7d0b-4fa4-bf61-52c413100e3e HTTP/1.1
> Host: searchbuy.herokuapp.com
> User-Agent: curl/7.59.0
> Content-Type: application/json
> Accept: application/json
> Content-Length: 250
>
* upload completely sent off: 250 out of 250 bytes
< HTTP/1.1 200 OK
< Connection: keep-alive
< Set-Cookie: JSESSIONID=7N7ol-Ix0JTHcM_KFGKDjz5Z9AKEi4lJVoZwsHCX; path=/; HttpOnly
< Server: undertow
< X-Xss-Protection: 1; mode=block
< X-Frame-Options: SAMEORIGIN
< Date: Sun, 10 Feb 2019 13:54:55 GMT
< X-Content-Type-Options: nosniff
< Content-Type: application/json; charset=utf-8
< Content-Length: 38
< Via: 1.1 vegur
<
* Connection #0 to host searchbuy.herokuapp.com left intact
"e7975b74-7d0b-4fa4-bf61-52c413100e3e"
```

4.4.5 DELETE /orders/:id

Elimina un ordine

```
$ curl -v -X DELETE --header 'Accept: application/octet-stream' 'http://searchbuy.herokuapp.com/orders/b93e51d9-d27f-43b4-8134-6787de793cfc'
* Trying 34.241.174.136...
* TCP_NODELAY set
* Connected to searchbuy.herokuapp.com (34.241.174.136) port 80 (#0)
> DELETE /orders/b93e51d9-d27f-43b4-8134-6787de793cfc HTTP/1.1
> Host: searchbuy.herokuapp.com
> User-Agent: curl/7.59.0
> Accept: application/octet-stream
>
< HTTP/1.1 200 OK
< Connection: keep-alive
< Set-Cookie: JSESSIONID=tg2JQg7J1gHafmqRBRA4COWOMJ69jKEP1ZMWdRYQn; path=/; HttpOnly
< Server: undertow
< X-Xss-Protection: 1; mode=block
< X-Frame-Options: SAMEORIGIN
< Date: Sun, 10 Feb 2019 13:56:09 GMT
< X-Content-Type-Options: nosniff
< Content-Type: application/octet-stream
< Content-Length: 0
< Via: 1.1 vegur
<
* Connection #0 to host searchbuy.herokuapp.com left intact
```