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StoreKeeper is an open source, multilingual warehouse/store management software

**Warning:** *Project is under development!*
The following features are available:

- User login, logout
- Manage items and its barcodes, units, vendors
- Add/remove items in store
- Able to use barcode reader for collecting items
- Can use barcode printer to create labels

The following features are only available via API now:

- Manage users, handle permissions
- Can make acquisition and stocktaking
- Can crate works and its customers (handle outbound, returned items)
You can test the latest development version on our demo server: http://storekeeper-demo.dras.hu/storekeeper
Default username and password: admin / admin
StoreKeeper is building in multilingual approach, therefore it can easily translate to a new language.

- You should create a new `.po` file in your language, then put to `client/po/` directory and create a pull request.
- Or use Transifex for online translation: https://www.transifex.com/projects/p/storekeeper/
CHAPTER 4

The Guide

4.1 Setup

4.1.1 Prepare & Run

All commands can run with `package.sh` scripts what you want. All of these scripts has `--help` argument for available getting some info about the current module.

1. Clone repo, or download & extract a release `.tar.gz` file
2. Install all dependencies: `. /package.sh -p install`
3. Check the `config/config.yml` for database and other settings
4. Prepare database: `./package.sh upgrade_database`
5. Start server: `./package.sh start`

Now, you can open the WebUI: `http://localhost:8000/storekeeper`

4.1.2 Details

Basically, the `install` command consists of `preinstall` and `postinstall` parts.

- **preinstall** checks/prepares system components for `postinstall` and `start`. This command has only one dependency, an **DEB** based system (for `apt-get install`).
- **postinstall** checks/prepares external dependencies (e.g. Python, Bower modules).

You can modify installing method with this arguments:

- `--global` makes changes on system instead of virtual environments.
- `--production` installs dependencies for production running only (e.g. did not install unit test framework)

4.2 Upgrade

The upgrade process is under construction, but there are the main steps:

1. Update source code with `git`/extract release `.tar.gz` from GitHub.
2. Update libs and others with `./package.sh -p install`.
3. Follow up config changes based on `config/config.default.yml`.
4. Upgrade database scheme with `./package.sh upgrade_database`.
4.2.1 Upgrade from v0.2.1 to v0.3.0

Changed the database migration framework in **v0.3.0**, therefore have to make some changes by hand:

1. Do common upgrade scenario step-by-step **without** upgrading database (*step 4*)
2. Remove `server/db_repository` directory
3. Run the following SQL commands:

```sql
ALTER TABLE item ALTER COLUMN purchase_price SET DEFAULT 0;
DROP TABLE migrate_version;
CREATE TABLE alembic_version (version_num character varying(32) NOT NULL);
-- ALTER TABLE public.alembic_version OWNER TO sql_user_of_storekeeper;
INSERT INTO alembic_version VALUES ('305c2b0084f');
```


**Note:** Run this commands as StoreKeeper’s SQL user or use `ALTER TABLE` to set owner of the new table.

4.3 Client

The UI of **StoreKeeper** will be implemented in AngularStrap.

4.4 Server

The backend of **StoreKeeper** is based on Flask and used several plugins of it.

4.4.1 Interfaces

**Admin page**

**StoreKeeper** has admin interface (with Flask-Admin), where you can manage database tables and static files directly.

You can reach this on: `http://localhost:8000/<name>/admin`

**Note:** Admin page is not available in in production mode.
Interface

![StoreKeeper Admin Interface](image)

<table>
<thead>
<tr>
<th>Vendor</th>
<th>Unit</th>
<th>Article Number</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foo</td>
<td>pcs</td>
<td>67845234</td>
<td>12</td>
</tr>
<tr>
<td>Pipe Maker</td>
<td>m</td>
<td>123134</td>
<td>12</td>
</tr>
<tr>
<td>Pipe Maker</td>
<td>m</td>
<td>6666</td>
<td>12</td>
</tr>
<tr>
<td>Pipe Maker</td>
<td>m</td>
<td>6666</td>
<td>12</td>
</tr>
<tr>
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</tr>
<tr>
<td>Pipe Maker</td>
<td>m</td>
<td>6666</td>
<td>12</td>
</tr>
<tr>
<td>Pipe Maker</td>
<td>m</td>
<td>6666</td>
<td>12</td>
</tr>
<tr>
<td>Water pipe7</td>
<td></td>
<td>6666</td>
<td>12</td>
</tr>
</tbody>
</table>

4.4. Server
RPC API

StoreKeeper uses HATEOAS RCP API for communicate server and client side each other. The URLs are prefixed with name of application what you can customize in server/config.yml.

Example URL:

http://localhost:8000/<name>/api/<command>

Endpoints

Acquisitions API endpoint for manage acquisitions.

Data management

/api/acquisitions
GET /storekeeper/api/acquisitions
List acquisitions

Status Codes

- 200 OK – no error
- 401 Unauthorized – user was not logged in

Example request:

GET /storekeeper/api/acquisitions HTTP/1.1
Host: localhost:8000
Content-Type: application/json
Example response:

```
HTTP/1.0 200 OK
Content-Type: application/json

[
  {
    "comment": "Maybe missing some items",
    "id": 1,
    "timestamp": "2016-03-18T07:58:11.557018+00:00"
  },
  {
    "comment": null,
    "id": 2,
    "timestamp": "2016-03-18T07:58:11.557121+00:00"
  }
]
```

**POST /storekeeper/api/acquisitions**

Create acquisition

**Status Codes**

- 201 Created – no error
- 401 Unauthorized – user was not logged in
- 422 Unprocessable Entity – there is wrong type / missing field

Example request:

```
POST /storekeeper/api/acquisitions HTTP/1.1
Host: localhost:8000
Content-Type: application/json

{
  "comment": "Maybe missing some items"
}
```

Example response:

```
HTTP/1.0 201 CREATED
Content-Type: application/json

{
  "comment": "Maybe missing some items",
  "id": 1,
  "timestamp": "2016-03-18T07:58:11.557018+00:00"
}
```

**/api/acquisitions/**<id>

**GET /storekeeper/api/acquisitions/**<int:id>

Get acquisition

**Parameters**

- **id** – ID of selected acquisition for get

**Status Codes**

- 200 OK – no error
- 401 Unauthorized – user was not logged in
- 404 Not Found – there is no acquisition

Example request:
GET /storekeeper/api/acquisitions/1 HTTP/1.1
Host: localhost:8000
Content-Type: application/json

Example response:

HTTP/1.0 200 OK
Content-Type: application/json

```json
{
    "comment": "Maybe missing some items",
    "id": 1,
    "timestamp": "2016-03-18T07:58:11.557018+00:00"
}
```

PUT /storekeeper/api/acquisitions/ (int: id)
Update acquisition

**Parameters**

- **id** – ID of selected acquisition for put

**Status Codes**

- 200 OK – no error
- 401 Unauthorized – user was not logged in
- 404 Not Found – there is no acquisition
- 422 Unprocessable Entity – there is wrong type / missing field

Example request:

PUT /storekeeper/api/acquisitions/1 HTTP/1.1
Host: localhost:8000
Content-Type: application/json

```json
{
    "comment": "A box has been damaged"
}
```

Example response:

HTTP/1.0 200 OK
Content-Type: application/json

```json
{
    "comment": "A box has been damaged",
    "id": 1,
    "timestamp": "2016-03-18T07:58:11.557018+00:00"
}
```

DELETE /storekeeper/api/acquisitions/ (int: id)
Delete acquisition

**Parameters**

- **id** – ID of selected acquisition for delete

**Status Codes**

- 200 OK – no error
- 401 Unauthorized – user was not logged in
- 404 Not Found – there is no acquisition

Example request:
DELETE /storekeeper/api/acquisitions/1 HTTP/1.1
Host: localhost:8000
Content-Type: application/json

Example response:

HTTP/1.0 200 OK
Content-Type: application/json

null

/api/acquisitions/<id>/items
GET /storekeeper/api/acquisitions/({int: id})/items
List acquisition items

Parameters
• id – ID of acquisition

Status Codes
• 200 OK – no error
• 401 Unauthorized – user was not logged in
• 404 Not Found – there is no item

Example request:

GET /storekeeper/api/acquisitions/1/items HTTP/1.1
Host: localhost:8000
Content-Type: application/json

Example response:

HTTP/1.0 200 OK
Content-Type: application/json

[
{
   "id": 1,
   "item": {  
      "article_number": "FO213546",
      "id": 2,
      "location": "B02/01",
      "name": "Pipe",
      "purchase_price": 0.0,
      "quantity": 0.0,
      "unit": {  
         "id": 1,
         "unit": "m"
      },
      "vendor": {  
         "id": 2,
         "name": "Star Shop Ltd."
      },
      "warning_quantity": 0.0
   },
   "quantity": 132.4
},
{
   "id": 2,
   "item": {  
      "article_number": "SK132465",
      "id": 1,
      "location": "B02/01",
      "name": "Pipe",
      "purchase_price": 0.0,
      "quantity": 0.0,
      "unit": {  
         "id": 1,
         "unit": "m"
      },
      "vendor": {  
         "id": 2,
         "name": "Star Shop Ltd."
      },
      "warning_quantity": 0.0
   },
   "quantity": 132.4
}]}
POST /storekeeper/api/acquisitions/\(\text{int: id}\)/items

Create acquisition item

Parameters

- \text{id} – ID of acquisition

Status Codes

- 201 Created – no error
- 401 Unauthorized – user was not logged in
- 404 Not Found – there is no item
- 422 Unprocessable Entity – there is wrong type / missing field / can not add one item twice

Example request:

```
POST /storekeeper/api/acquisitions/1/items HTTP/1.1
Host: localhost:8000
Content-Type: application/json

{
    "item": {
        "article_number": "FO213546",
        "id": 2,
        "location": "B02/01",
        "name": "Pipe",
        "purchase_price": 0.0,
        "quantity": 0.0,
        "unit": {
            "id": 1,
            "unit": "m"
        },
        "vendor": {
            "id": 2,
            "name": "Star Shop Ltd."
        },
        "warning_quantity": 0.0
    },
    "quantity": 132.4
}
```

Example response:
HTTP/1.0 201 CREATED
Content-Type: application/json

{
   "id": 1,
   "item": {
      "article_number": "FO213546",
      "id": 2,
      "location": "B02/01",
      "name": "Pipe",
      "purchase_price": 0.0,
      "quantity": 0.0,
      "unit": {
         "id": 1,
         "unit": "m"
      },
      "vendor": {
         "id": 2,
         "name": "Star Shop Ltd."
      },
      "warning_quantity": 0.0
   },
   "quantity": 132.4
}

/api/acquisitions/<id>/items/<item_id>
GET /storekeeper/api/acquisitions/(int:id)/items/ (int:item_id) Get acquisition item

Parameters
- id – ID of acquisition
- item_id – ID of selected acquisition item for get

Status Codes
- 200 OK – no error
- 401 Unauthorized – user was not logged in
- 404 Not Found – there is no acquisition item

Example request:
GET /storekeeper/api/acquisitions/1/items/1 HTTP/1.1
Host: localhost:8000
Content-Type: application/json

Example response:
HTTP/1.0 200 OK
Content-Type: application/json

{
   "id": 1,
   "item": {
      "article_number": "FO213546",
      "id": 2,
      "location": "B02/01",
      "name": "Pipe",
      "purchase_price": 0.0,
      "quantity": 0.0,
      "unit": {
         "id": 1,
   ...

4.4. Server
PUT /storekeeper/api/acquisitions/ (int:id) /items/ int: item_id Update acquisition item

Parameters

• id – ID of acquisition
• item_id – ID of selected acquisition item for get

Status Codes

• 200 OK – no error
• 401 Unauthorized – user was not logged in
• 404 Not Found – there is no acquisition item
• 422 Unprocessable Entity – there is wrong type / missing field / can not add one item twice

Example request:

PUT /storekeeper/api/acquisitions/1/items/1 HTTP/1.1
Host: localhost:8000
Content-Type: application/json

{
    "item": {
        "article_number": "FO213546",
        "id": 2,
        "location": "B02/01",
        "name": "Pipe",
        "purchase_price": 0.0,
        "quantity": 0.0,
        "unit": {
            "id": 1,
            "unit": "m"
        },
        "vendor": {
            "id": 2,
            "name": "Star Shop Ltd."
        },
        "warning_quantity": 0.0
    },
    "quantity": 132.4
}

Example response:

HTTP/1.0 200 OK
Content-Type: application/json

{
    "id": 1,
    "item": {
        "article_number": "FO213546",
        "id": 2,
        "location": "B02/01",
        "name": "Pipe",
        "purchase_price": 0.0,
        "quantity": 0.0,
        "unit": {
            "id": 1,
            "unit": "m"
        },
        "vendor": {
            "id": 2,
            "name": "Star Shop Ltd."
        },
        "warning_quantity": 0.0
    },
    "quantity": 132.4
}
DELETE /storekeeper/api/acquisitions/ (int: id) /items/ 
  int: item_id Delete acquisition item

Parameters

- **id** – ID of acquisition
- **item_id** – ID of selected acquisition item for get

Status Codes

- 200 OK – no error
- 401 Unauthorized – user was not logged in
- 404 Not Found – there is no acquisition item

Example request:

DELETE /storekeeper/api/acquisitions/1/items/1 HTTP/1.1
Host: localhost:8000
Content-Type: application/json

Example response:

HTTP/1.0 200 OK
Content-Type: application/json

null

Barcodes  API endpoint for fetching barcodes.

Data management

/api/barcodes
GET /storekeeper/api/barcodes
List barcodes items

Status Codes

- 200 OK – no error
- 401 Unauthorized – user was not logged in

Example request:
Example response:

```json
HTTP/1.0 200 OK
Content-Type: application/json

[
    {
        "barcode": "SKT98601",
        "id": 1,
        "item_id": 1,
        "main": true,
        "master": true,
        "quantity": 32.7
    },
    {
        "barcode": "9843-184125",
        "id": 2,
        "item_id": 1,
        "main": false,
        "master": false,
        "quantity": 1.5
    }
]
```

**Config**  
API endpoint for getting client related settings from server config.

**Getting config values**

**/api/config**

**GET /storekeeper/api/config**

Get server settings

**Status Codes**

- 200 OK – no error

**Example request:**

```request
GET /storekeeper/api/config HTTP/1.1
Host: localhost:8000
Content-Type: application/json
```

**Example response:**

```json
HTTP/1.0 200 OK
Content-Type: application/json

{
    "app_name": "storekeeper",
    "app_title": "StoreKeeper",
    "currency": ",\$",
    "debug": false,
    "forced_language": null
}
```

**Customers**  
API endpoint for manage customers.
Data management

/api/customers
GET /storekeeper/api/customers
List customers

Status Codes
• 200 OK – no error
• 401 Unauthorized – user was not logged in

Example request:
GET /storekeeper/api/customers HTTP/1.1
Host: localhost:8000
Content-Type: application/json

Example response:
HTTP/1.0 200 OK
Content-Type: application/json
[
  {
    "id": 1,
    "name": "Big Customer Ltd."
  },
  {
    "id": 2,
    "name": "Buy Everything Co."
  }
]

POST /storekeeper/api/customers
Create customer

Status Codes
• 201 Created – no error
• 401 Unauthorized – user was not logged in
• 422 Unprocessable Entity – there is wrong type / missing field / customer is already exist

Example request:
POST /storekeeper/api/customers HTTP/1.1
Host: localhost:8000
Content-Type: application/json

Example response:
HTTP/1.0 201 CREATED
Content-Type: application/json
{
  "id": 1,
  "name": "Big Customer Ltd."
}
/api/customers/<id>

GET /storekeeper/api/customers/(int:id)

Get customer

Parameters

• id – ID of selected customer for get

Status Codes

• 200 OK – no error
• 401 Unauthorized – user was not logged in
• 404 Not Found – there is no customer

Example request:

```bash
GET /storekeeper/api/customers/1 HTTP/1.1
Host: localhost:8000
Content-Type: application/json
```

Example response:

```
HTTP/1.0 200 OK
Content-Type: application/json

{
  "id": 1,
  "name": "Big Customer Ltd."
}
```

PUT /storekeeper/api/customers/(int:id)

Update customer

Parameters

• id – ID of selected customer for put

Status Codes

• 200 OK – no error
• 401 Unauthorized – user was not logged in
• 404 Not Found – there is no customer
• 422 Unprocessable Entity – there is wrong type / missing field / customer is already exist

Example request:

```bash
PUT /storekeeper/api/customers/1 HTTP/1.1
Host: localhost:8000
Content-Type: application/json

{
  "name": "new_foo"
}
```

Example response:

```
HTTP/1.0 200 OK
Content-Type: application/json

{
  "id": 1,
  "name": "new_foo"
}
```

Chapter 4. The Guide
DELETE /storekeeper/api/customers/ (int: id)
Delete customer

Parameters
• id – ID of selected customer for delete

Status Codes
• 200 OK – no error
• 401 Unauthorized – user was not logged in
• 404 Not Found – there is no customer

Example request:
DELETE /storekeeper/api/customers/1 HTTP/1.1
Host: localhost:8000
Content-Type: application/json

Example response:
HTTP/1.0 200 OK
Content-Type: application/json
null

Error  API endpoint for getting client side errors to alerting administrator.

Push error messages

/api/error
POST /storekeeper/api/error
Receive client side errors and forward to logfile / email / syslog (what specified in config)

Status Codes
• 201 Created – no error
• 401 Unauthorized – user was not logged in
• 422 Unprocessable Entity – there is wrong type / missing field

Example request:
POST /storekeeper/api/error HTTP/1.1
Host: localhost:8000
Content-Type: application/json

{  
   "message": "foo is not defined",
   "name": "ReferenceError",
   "stack": "ReferenceError: foo is not defined\n   at Scope.printLabel (http://.../storekeeper.js:58678:21)
   at ..."
}

Example response:
HTTP/1.0 201 CREATED
Content-Type: application/json
null

Items  API endpoint for manage items.
Data management

/api/items
GET /storekeeper/api/items
List items

Status Codes
- 200 OK – no error
- 401 Unauthorized – user was not logged in

Example request:
GET /storekeeper/api/items HTTP/1.1
Host: localhost:8000
Content-Type: application/json

Example response:
HTTP/1.0 200 OK
Content-Type: application/json
[
  {
    "article_number": "SK132465",
    "id": 1,
    "location": "A12/12",
    "name": "Spray",
    "purchase_price": 60.4,
    "quantity": 0.0,
    "unit": {
      "id": 2,
      "unit": "pcs"
    },
    "vendor": {
      "id": 1,
      "name": "Heavy Duty Ltd."
    },
    "warning_quantity": 4.0
  },
  {
    "article_number": "FO213546",
    "id": 2,
    "location": "B02/01",
    "name": "Pipe",
    "purchase_price": 0.0,
    "quantity": 0.0,
    "unit": {
      "id": 1,
      "unit": "m"
    },
    "vendor": {
      "id": 2,
      "name": "Star Shop Ltd."
    },
    "warning_quantity": 0.0
  }
]

POST /storekeeper/api/items
Create item

Status Codes
- 201 Created – no error
• 401 Unauthorized – user was not logged in
• 422 Unprocessable Entity – there is wrong type / missing field

Example request:

```
POST /storekeeper/api/items HTTP/1.1
Host: localhost:8000
Content-Type: application/json

{
  "article_number": "sk132465",
  "location": "A12/12",
  "name": "Spray",
  "purchase_price": 60.4,
  "unit": {
    "id": 2,
    "unit": "pcs"
  },
  "vendor": {
    "id": 1,
    "name": "Heavy Duty Ltd."
  },
  "warning_quantity": 4.0
}
```

Example response:

```
HTTP/1.0 201 CREATED
Content-Type: application/json

{
  "article_number": "SK132465",
  "id": 1,
  "location": "A12/12",
  "name": "Spray",
  "purchase_price": 60.4,
  "quantity": 0.0,
  "unit": {
    "id": 2,
    "unit": "pcs"
  },
  "vendor": {
    "id": 1,
    "name": "Heavy Duty Ltd."
  },
  "warning_quantity": 4.0
}
```

/api/items/search
GET /storekeeper/api/items/search
Search in items and barcodes

Parameters

• **barcodes** – Filter for master barcodes [0=False (default), 1=True]
• **expression** – Query string (search in barcode, item name, article number)
• **items** – Filter for items [0=False (default), 1=True]
• **limit** – Limit of result set [default: 6]

Status Codes

• 200 OK – no error
Example request:

```
GET /storekeeper/api/items/search?expression=sk&limit=6&barcodes=1&items=1 HTTP/1.1
Host: localhost:8000
Content-Type: application/json
```

Example response:

```
HTTP/1.0 200 OK
Content-Type: application/json

[
  {
    "barcode": "SK586936",
    "item_id": 326,
    "quantity": 1,
    "type": "barcode"
  },
  {
    "article_number": "SE180826",
    "item_id": 309,
    "name": "Skate",
    "type": "item",
    "vendor": "Import"
  }
]
```

```
/api/items/<id>
```

GET /storekeeper/api/items/ (int: id)

Get item

Parameters

- id – ID of selected item for get

Status Codes

- 200 OK – no error
- 401 Unauthorized – user was not logged in
- 404 Not Found – there is no item

Example request:

```
GET /storekeeper/api/items/1 HTTP/1.1
Host: localhost:8000
Content-Type: application/json
```

Example response:

```
HTTP/1.0 200 OK
Content-Type: application/json

{
  "article_number": "SK132465",
  "id": 1,
  "location": "A12/12",
  "name": "Spray",
  "purchase_price": 60.4,
  "quantity": 0.0,
  "unit": {
    "id": 2,
    "unit": "pcs"
  }
}
PUT /storekeeper/api/items/ (int: id)
Update item

Parameters
- **id** – ID of selected item for put

Status Codes
- 200 OK – no error
- 401 Unauthorized – user was not logged in
- 404 Not Found – there is no item
- 422 Unprocessable Entity – there is wrong type / missing field

Example request:

```json
PUT /storekeeper/api/items/1 HTTP/1.1
Host: localhost:8000
Content-Type: application/json

{
    "article_number": "sk132465",
    "location": "A12/12",
    "name": "Spray",
    "purchase_price": 60.4,
    "unit": {
        "id": 2,
        "unit": "pcs"
    },
    "vendor": {
        "id": 1,
        "name": "Heavy Duty Ltd."
    },
    "warning_quantity": 4.0
}
```

Example response:

```
HTTP/1.0 200 OK
Content-Type: application/json

{
    "article_number": "SK132465",
    "id": 1,
    "location": "A12/12",
    "name": "Spray",
    "purchase_price": 60.4,
    "quantity": 0.0,
    "unit": {
        "id": 2,
        "unit": "pcs"
    },
    "vendor": {
        "id": 1,
        "name": "Heavy Duty Ltd."
    }
}
```
"warning_quantity": 4.0
}

DELETE /storekeeper/api/items/(int:id)
Delete item

Parameters
- id – ID of selected item for delete

Status Codes
- 200 OK – no error
- 401 Unauthorized – user was not logged in
- 404 Not Found – there is no item

Example request:

```
DELETE /storekeeper/api/items/1 HTTP/1.1
Host: localhost:8000
Content-Type: application/json
```

Example response:

```
HTTP/1.0 200 OK
Content-Type: application/json
null
```

/api/items/<id>/barcodes
GET /storekeeper/api/items/(int:id)/barcodes
List barcodes.

Parameters
- id – ID of item

Status Codes
- 200 OK – no error
- 401 Unauthorized – user was not logged in
- 404 Not Found – there is no item

Example request:

```
GET /storekeeper/api/items/1/barcodes HTTP/1.1
Host: localhost:8000
Content-Type: application/json
```

Example response:

```
HTTP/1.0 200 OK
Content-Type: application/json
[
{
  "barcode": "SKT52680",
  "id": 1,
  "main": true,
  "master": true,
  "quantity": 32.7
},
{
  "barcode": "9843-184125",
```
POST /storekeeper/api/items/(int:id)/barcodes
Create barcode (if missing barcode then server will generate one)

Parameters
• id – ID of item

Status Codes
• 201 Created – no error
• 401 Unauthorized – user was not logged in
• 404 Not Found – there is no item
• 422 Unprocessable Entity – there is wrong type / missing field / can not add one barcode twice / can not generate unique new barcode / can not set non-main barcode as master barcode / can not set more than one master barcode to an item

Example request:

```
POST /storekeeper/api/items/1/barcodes HTTP/1.1
Host: localhost:8000
Content-Type: application/json

{
    "barcode": "SKT52680",
    "master": true,
    "quantity": 32.7
}
```

Example response:

```
HTTP/1.0 201 CREATED
Content-Type: application/json

{
    "barcode": "SKT52680",
    "id": 1,
    "main": true,
    "master": true,
    "quantity": 32.7
}
```

/api/items/<id>/barcodes/<id>
GET /storekeeper/api/items/(int:item_id)/barcodes/
int: id Get barcode

Parameters
• id – ID of selected barcode for get
• item_id – ID of item

Status Codes
• 200 OK – no error
• 401 Unauthorized – user was not logged in
• 404 Not Found – there is no barcode
Example request:

```plaintext
GET /storekeeper/api/items/1/barcodes/1 HTTP/1.1
Host: localhost:8000
Content-Type: application/json
```

Example response:

```plaintext
HTTP/1.0 200 OK
Content-Type: application/json

{
    "barcode": "SKT52680",
    "id": 1,
    "main": true,
    "master": true,
    "quantity": 32.7
}
```

**PUT /storekeeper/api/items/(int:item_id)/barcodes/(int:id)** Update barcode

**Parameters**

- `id` – ID of selected barcode for put
- `item_id` – ID of item

**Status Codes**

- 200 OK – no error
- 401 Unauthorized – user was not logged in
- 404 Not Found – there is no barcode
- 422 Unprocessable Entity – there is wrong type / missing field / can not add one barcode twice / can not set non-main barcode as master barcode / can not set more than one master barcode to an item

Example request:

```plaintext
PUT /storekeeper/api/items/1/barcodes/1 HTTP/1.1
Host: localhost:8000
Content-Type: application/json

{
    "barcode": "SKT52680",
    "master": true,
    "quantity": 32.7
}
```

Example response:

```plaintext
HTTP/1.0 200 OK
Content-Type: application/json

{
    "barcode": "SKT52680",
    "id": 1,
    "main": true,
    "master": true,
    "quantity": 32.7
}
```

**DELETE /storekeeper/api/items/(int:item_id)/barcodes/(int:id)** Delete barcode

Example request:

```plaintext
DELETE /storekeeper/api/items/1/barcodes/1 HTTP/1.1
Host: localhost:8000
Content-Type: application/json
```

Example response:

```plaintext
HTTP/1.0 200 OK
Content-Type: application/json

{
    "barcode": "SKT52680",
    "id": 1,
    "main": true,
    "master": true,
    "quantity": 32.7
}
```
Parameters

• \textit{id} – ID of selected barcode for delete
• \textit{item_id} – ID of item

Status Codes

• 200 OK – no error
• 401 Unauthorized – user was not logged in
• 404 Not Found – there is no barcode

Example request:
```
DELETE /storekeeper/api/items/1/barcodes/1 HTTP/1.1
Host: localhost:8000
Content-Type: application/json
```

Example response:
```
HTTP/1.0 200 OK
Content-Type: application/json
null
```

Commands

/api/items/<id>/barcodes/<id>/print
GET /storekeeper/api/items/\(\text{int: item_id}\)/barcodes/\(\text{int: id}\)/print
Generate barcode label to PDF with some details, and starts downloading that.

Parameters

• \textit{id} – ID of selected barcode for get
• \textit{item_id} – ID of item

Status Codes

• 200 OK – no error
• 401 Unauthorized – user was not logged in
• 404 Not Found – there is no barcode

Example request:
```
GET /storekeeper/api/items/1/barcodes/1/print HTTP/1.1
Host: localhost:8000
Content-Type: application/json
```

Example response:
```
HTTP/1.0 200 OK
Content-Type: application/pdf
Content-Disposition: attachment; filename=label__SK642031__4f0ff51c73703295643a325e55bc7ed2d9.pdf
Content-Length: 11234

<file content>
```

PUT /storekeeper/api/items/\(\text{int: item_id}\)/barcodes/\(\text{int: id}\)/print
Print barcode label with some details

Parameters

• \textit{id} – ID of selected barcode for get
• **item_id** – ID of item

**Status Codes**

• 200 OK – no error
• 400 Bad Request – missing pycups python3 module
• 401 Unauthorized – user was not logged in
• 404 Not Found – there is no barcode
• 422 Unprocessable Entity – there is wrong type / missing field

**Example request:**

```
PUT /storekeeper/api/items/1/barcodes/1/print HTTP/1.1
Host: localhost:8000
Content-Type: application/json

{
  "copies": 3
}
```

**Example response:**

```
HTTP/1.0 200 OK
Content-Type: application/json

null
```

**Session**  
API endpoint for manage the current session.

**Session management**

* /api/session
  
**GET /storekeeper/api/session**
  
Get current session

**Status Codes**

• 200 OK – no error
• 401 Unauthorized – user was not logged in

**Example request:**

```
GET /storekeeper/api/session HTTP/1.1
Host: localhost:8000
Content-Type: application/json

```

**Example response:**

```
HTTP/1.0 200 OK
Content-Type: application/json

{
  "admin": true,
  "disabled": false,
  "email": "admin@test.com",
  "id": 1,
  "username": "admin"
}
```

**POST /storekeeper/api/session**

Login user
Status Codes

- 201 Created – no error
- 401 Unauthorized – bad authentication data or user is disabled
- 422 Unprocessable Entity – there is wrong type / missing field

Example request:
```
POST /storekeeper/api/session HTTP/1.1
Host: localhost:8000
Content-Type: application/json

{
    "password": "secret",
    "remember": false,
    "username": "admin"
}
```

Example response:
```
HTTP/1.0 201 CREATED
Content-Type: application/json

{
    "admin": true,
    "disabled": false,
    "email": "admin@test.com",
    "id": 1,
    "username": "admin"
}
```

DELETE /storekeeper/api/session
Logout user

Status Codes

- 200 OK – no error
- 401 Unauthorized – user was not logged in

Example request:
```
DELETE /storekeeper/api/session HTTP/1.1
Host: localhost:8000
Content-Type: application/json

```

Example response:
```
HTTP/1.0 200 OK
Content-Type: application/json

null
```

Stocktakings  API endpoint for manage stocktaking results.

Data management

/api/stocktakings
GET /storekeeper/api/stocktakings
List stocktakings

Status Codes
• 200 OK – no error
• 401 Unauthorized – user was not logged in

**Example request:**

<table>
<thead>
<tr>
<th>GET /storekeeper/api/stocktakings HTTP/1.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Host: localhost:8000</td>
</tr>
<tr>
<td>Content-Type: application/json</td>
</tr>
</tbody>
</table>

**Example response:**

<table>
<thead>
<tr>
<th>HTTP/1.0 200 OK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Content-Type: application/json</td>
</tr>
</tbody>
</table>

```
[
  {
    "close_timestamp": null,
    "close_user": {
      "admin": null,
      "disabled": null,
      "email": null,
      "id": null,
      "username": null
    },
    "comment": "Maybe missing some items",
    "id": 1,
    "timestamp": "2016-03-18T07:58:11.557176+00:00"
  },
  {
    "close_timestamp": null,
    "close_user": {
      "admin": null,
      "disabled": null,
      "email": null,
      "id": null,
      "username": null
    },
    "comment": null,
    "id": 2,
    "timestamp": "2016-03-18T07:58:11.557202+00:00"
  }
]
```

**POST /storekeeper/api/stocktakings**

Create stocktaking

**Status Codes**

• 201 Created – no error
• 401 Unauthorized – user was not logged in
• 422 Unprocessable Entity – there is wrong type / missing field

**Example request:**

<table>
<thead>
<tr>
<th>POST /storekeeper/api/stocktakings HTTP/1.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Host: localhost:8000</td>
</tr>
<tr>
<td>Content-Type: application/json</td>
</tr>
</tbody>
</table>

```
{
  "comment": "Maybe missing some items"
}
```

**Example response:**
HTTP/1.0 201 CREATED
Content-Type: application/json

{
  "close_timestamp": null,
  "close_user": {
    "admin": null,
    "disabled": null,
    "email": null,
    "id": null,
    "username": null
  },
  "comment": "Maybe missing some items",
  "id": 1,
  "timestamp": "2016-03-18T07:58:11.557176+00:00"
}

/api/stocktakings/<id>
GET /storekeeper/api/stocktakings/ (int: id)
Get stocktaking

Parameters

• id – ID of selected stocktaking for get

Status Codes

• 200 OK – no error
• 401 Unauthorized – user was not logged in
• 404 Not Found – there is no stocktaking

Example request:

GET /storekeeper/api/stocktakings/1 HTTP/1.1
Host: localhost:8000
Content-Type: application/json

Example response:

HTTP/1.0 200 OK
Content-Type: application/json

{
  "close_timestamp": null,
  "close_user": {
    "admin": null,
    "disabled": null,
    "email": null,
    "id": null,
    "username": null
  },
  "comment": "Maybe missing some items",
  "id": 1,
  "timestamp": "2016-03-18T07:58:11.557176+00:00"
}

PUT /storekeeper/api/stocktakings/ (int: id)
Update stocktaking

Parameters

• id – ID of selected stocktaking for put

Status Codes

4.4. Server
• 200 OK – no error
• 401 Unauthorized – user was not logged in
• 404 Not Found – there is no stocktaking
• 422 Unprocessable Entity – there is wrong type / missing field

Example request:
```
PUT /storekeeper/api/stocktakings/1 HTTP/1.1
Host: localhost:8000
Content-Type: application/json

{  
  "comment": "A box has been damaged"
}
```

Example response:
```
HTTP/1.0 200 OK
Content-Type: application/json

{
  "close_timestamp": null,
  "close_user": {
    "admin": null,
    "disabled": null,
    "email": null,
    "id": null,
    "username": null
  },
  "comment": "A box has been damaged",
  "id": 1,
  "timestamp": "2016-03-18T07:58:11.557176+00:00"
}
```

DELETE /storekeeper/api/stocktakings/ (int: id)
Delete stocktaking

Parameters
• id – ID of selected stocktaking for delete

Status Codes
• 200 OK – no error
• 401 Unauthorized – user was not logged in
• 404 Not Found – there is no stocktaking

Example request:
```
DELETE /storekeeper/api/stocktakings/1 HTTP/1.1
Host: localhost:8000
Content-Type: application/json
```

Example response:
```
HTTP/1.0 200 OK
Content-Type: application/json

null
```

/api/stocktakings/<id>/items
GET /storekeeper/api/stocktakings/(int:id)/items

List stocktaking items.

Parameters

- **id** – ID of stocktaking

Status Codes

- 200 OK – no error
- 401 Unauthorized – user was not logged in
- 404 Not Found – there is no item

Example request:

```
GET /storekeeper/api/stocktakings/1/items HTTP/1.1
Host: localhost:8000
Content-Type: application/json
```

Example response:

```
HTTP/1.0 200 OK
Content-Type: application/json

[
  {
    "id": 1,
    "item": {
      "article_number": "FO213546",
      "id": 2,
      "location": "B02/01",
      "name": "Pipe",
      "purchase_price": 0.0,
      "quantity": 0.0,
      "unit": {
        "id": 1,
        "unit": "m"
      },
      "vendor": {
        "id": 2,
        "name": "Star Shop Ltd."
      },
      "warning_quantity": 0.0
    },
    "quantity": 52.1
  },
  {
    "id": 2,
    "item": {
      "article_number": "SK132465",
      "id": 1,
      "location": "A12/12",
      "name": "Spray",
      "purchase_price": 60.4,
      "quantity": 0.0,
      "unit": {
        "id": 2,
        "unit": "pcs"
      },
      "vendor": {
        "id": 1,
        "name": "Heavy Duty Ltd."
      },
      "warning_quantity": 4.0
    }
  }
]
```
POST /storekeeper/api/stocktakings/(int:id)/items
Create stocktaking item

Parameters

- id – ID of stocktaking

Status Codes

- 201 Created – no error
- 401 Unauthorized – user was not logged in
- 403 Forbidden – can not add new stocktaking item after items was closed
- 404 Not Found – there is no item
- 422 Unprocessable Entity – there is wrong type / missing field / can not add one item twice

Example request:

```
POST /storekeeper/api/stocktakings/1/items HTTP/1.1
Host: localhost:8000
Content-Type: application/json

{
  "item": {
    "article_number": "FO213546",
    "id": 2,
    "location": "B02/01",
    "name": "Pipe",
    "purchase_price": 0.0,
    "quantity": 0.0,
    "unit": {
      "id": 1,
      "unit": "m"
    },
    "vendor": {
      "id": 2,
      "name": "Star Shop Ltd."
    },
    "warning_quantity": 0.0
  },
  "quantity": 52.1
}
```

Example response:

```
HTTP/1.0 201 CREATED
Content-Type: application/json

{
  "id": 1,
  "item": {
    "article_number": "FO213546",
    "id": 2,
    "location": "B02/01",
    "name": "Pipe",
    "purchase_price": 0.0,
    "quantity": 0.0,
    "unit": { 
```
GET /storekeeper/api/stocktakings/(int:id)/items/ (int:item_id) Get stocktaking item

Parameters

- **id** – ID of stocktaking
- **item_id** – ID of selected stocktaking item for get

Status Codes

- 200 OK – no error
- 401 Unauthorized – user was not logged in
- 404 Not Found – there is no stocktaking item

Example request:

```
GET /storekeeper/api/stocktakings/1/items/1 HTTP/1.1
Host: localhost:8000
Content-Type: application/json
```

Example response:

```
HTTP/1.0 200 OK
Content-Type: application/json

{
  "id": 1,
  "item": {
    "article_number": "FO213546",
    "id": 2,
    "location": "B02/01",
    "name": "Pipe",
    "purchase_price": 0.0,
    "quantity": 0.0,
    "unit": {
      "id": 1,
      "unit": "m"
    },
    "vendor": {
      "id": 2,
      "name": "Star Shop Ltd."
    },
    "warning_quantity": 0.0
  },
  "quantity": 52.1
}
```

PUT /storekeeper/api/stocktakings/(int:id)/items/ (int:item_id) Update stocktaking item
Parameters

- **id** – ID of stocktaking
- **item_id** – ID of selected stocktaking item for put

Status Codes

- 200 OK – no error
- 401 Unauthorized – user was not logged in
- 403 Forbidden – cannot change work item after outbound/returned items was closed
- 404 Not Found – there is no stocktaking item
- 422 Unprocessable Entity – there is wrong type / missing field / cannot add one item twice

Example request:

```
PUT /storekeeper/api/stocktakings/1/items/1 HTTP/1.1
Host: localhost:8000
Content-Type: application/json

{
  "item": {
    "article_number": "FO213546",
    "id": 2,
    "location": "B02/01",
    "name": "Pipe",
    "purchase_price": 0.0,
    "quantity": 0.0,
    "unit": {
      "id": 1,
      "unit": "m"
    },
    "vendor": {
      "id": 2,
      "name": "Star Shop Ltd."
    },
    "warning_quantity": 0.0
  },
  "quantity": 52.1
}
```

Example response:

```
HTTP/1.0 200 OK
Content-Type: application/json

{
  "id": 1,
  "item": {
    "article_number": "FO213546",
    "id": 2,
    "location": "B02/01",
    "name": "Pipe",
    "purchase_price": 0.0,
    "quantity": 0.0,
    "unit": {
      "id": 1,
      "unit": "m"
    },
    "vendor": {
      "id": 2,
      "name": "Star Shop Ltd."
    }
  }
}
```
DELETE /storekeeper/api/stocktakings/ (int: id) /items/
  int: item_id Delete stocktaking item

Parameters

- **id** – ID of stocktaking
- **item_id** – ID of selected stocktaking item for delete

Status Codes

- 200 OK – no error
- 401 Unauthorized – user was not logged in
- 403 Forbidden – can not delete stocktaking item after items was closed
- 404 Not Found – there is no stocktaking item

Example request:
```
DELETE /storekeeper/api/stocktakings/1/items/1 HTTP/1.1
Host: localhost:8000
Content-Type: application/json
```

Example response:
```
HTTP/1.0 200 OK
Content-Type: application/json

null
```

Commands

/api/stocktakings/<id>/close
PUT /storekeeper/api/stocktakings/ (int: id) /close
Close items on stocktaking

Parameters

- **id** – ID of selected stocktaking for put

Status Codes

- 200 OK – no error
- 401 Unauthorized – user was not logged in
- 404 Not Found – there is no stocktaking
- 422 Unprocessable Entity – there is wrong type / missing field / items have been closed / insufficient quantities for close the stocktaking items

Example request:
```
PUT /storekeeper/api/stocktakings/1/close HTTP/1.1
Host: localhost:8000
Content-Type: application/json
```

Example response:
HTTP/1.0 200 OK
Content-Type: application/json

{
   "close_timestamp": "2016-03-18T07:58:11.557219+00:00",
   "close_user": {
      "admin": false,
      "disabled": false,
      "email": "foo@bar.com",
      "id": 2,
      "username": "foo"
   },
   "comment": "Maybe missing some items",
   "id": 1,
   "timestamp": "2016-03-18T07:58:11.557176+00:00"
}

Units  API endpoint for manage units.

Data management

/api/units
GET /storekeeper/api/units
List units

Status Codes

- 200 OK – no error
- 401 Unauthorized – user was not logged in

Example request:

GET /storekeeper/api/units HTTP/1.1
Host: localhost:8000
Content-Type: application/json

Example response:

HTTP/1.0 200 OK
Content-Type: application/json

[
   {
      "id": 1,
      "unit": "m"
   },
   {
      "id": 2,
      "unit": "pcs"
   }
]

POST /storekeeper/api/units
Create unit

Status Codes

- 201 Created – no error
- 401 Unauthorized – user was not logged in
- 422 Unprocessable Entity – there is wrong type / missing field / unit is already exist
Example request:

```
POST /storekeeper/api/units HTTP/1.1
Host: localhost:8000
Content-Type: application/json

{  
    "unit": "m"
}
```

Example response:

```
HTTP/1.0 201 CREATED
Content-Type: application/json

{  
    "id": 1,
    "unit": "m"
}
```

/api/units/<id>

GET /storekeeper/api/units/(int:id)
Get unit

Parameters
- id – ID of selected unit for get

Status Codes
- 200 OK – no error
- 401 Unauthorized – user was not logged in
- 404 Not Found – there is no unit

Example request:

```
GET /storekeeper/api/units/1 HTTP/1.1
Host: localhost:8000
Content-Type: application/json
```

Example response:

```
HTTP/1.0 200 OK
Content-Type: application/json

{  
    "id": 1,
    "unit": "m"
}
```

PUT /storekeeper/api/units/(int:id)
Update unit

Parameters
- id – ID of selected unit for put

Status Codes
- 200 OK – no error
- 401 Unauthorized – user was not logged in
- 404 Not Found – there is no unit
- 422 Unprocessable Entity – there is wrong type / missing field / unit is already exist
Example request:

```bash
PUT /storekeeper/api/units/1 HTTP/1.1
Host: localhost:8000
Content-Type: application/json

{
    "unit": "dl"
}
```

Example response:

```bash
HTTP/1.0 200 OK
Content-Type: application/json

{
    "id": 1,
    "unit": "dl"
}
```

DELETE /storekeeper/api/units/(int:id)
Delete unit

Parameters

- **id** – ID of selected unit for delete

Status Codes

- 200 OK – no error
- 401 Unauthorized – user was not logged in
- 404 Not Found – there is no unit

Example request:

```bash
DELETE /storekeeper/api/units/1 HTTP/1.1
Host: localhost:8000
Content-Type: application/json
```

Example response:

```bash
HTTP/1.0 200 OK
Content-Type: application/json

null
```

Users

API endpoint for manage users.

Data management

/api/users

GET /storekeeper/api/users
List users *(for administrators only)*

Status Codes

- 200 OK – no error
- 401 Unauthorized – user was not logged in
- 403 Forbidden – user has not enough rights

Example request:
GET /storekeeper/api/users HTTP/1.1
Host: localhost:8000
Content-Type: application/json

Example response:

HTTP/1.0 200 OK
Content-Type: application/json
[
  {
    "admin": true,
    "disabled": false,
    "email": "admin@test.com",
    "id": 1,
    "username": "admin"
  },
  {
    "admin": false,
    "disabled": false,
    "email": "foo@bar.com",
    "id": 2,
    "username": "foo"
  }
]

POST /storekeeper/api/users
Create user (for administrators only)

Status Codes

• 201 Created – no error
• 401 Unauthorized – user was not logged in
• 403 Forbidden – user has not enough rights
• 422 Unprocessable Entity – {original} / user is already exist

Example request:

POST /storekeeper/api/users HTTP/1.1
Host: localhost:8000
Content-Type: application/json
{
  "email": "foo@bar.com",
  "password": "bar",
  "username": "foo"
}

Example response:

HTTP/1.0 201 CREATED
Content-Type: application/json
{
  "admin": false,
  "disabled": false,
  "email": "foo@bar.com",
  "id": 2,
  "username": "foo"
}

/api/users/<id>

4.4. Server
GET /storekeeper/api/users/(int: id)

Get user

Parameters

- **id** – ID of selected user for get

Status Codes

- 200 OK – no error
- 401 Unauthorized – user was not logged in
- 404 Not Found – there is no user

Example request:

```
GET /storekeeper/api/users/2 HTTP/1.1
Host: localhost:8000
Content-Type: application/json
```

Example response:

```
HTTP/1.0 200 OK
Content-Type: application/json

{
  "admin": false,
  "disabled": false,
  "email": "foo@bar.com",
  "id": 2,
  "username": "foo"
}
```

PUT /storekeeper/api/users/(int: id)

Update user

Parameters

- **id** – ID of selected user for put

Status Codes

- 200 OK – no error
- 401 Unauthorized – user was not logged in
- 403 Forbidden – user can not modify other users
- 404 Not Found – there is no user
- 422 Unprocessable Entity – \{original\} / user is already exist

Example request:

```
PUT /storekeeper/api/users/2 HTTP/1.1
Host: localhost:8000
Content-Type: application/json

{
  "email": "foo@bar.com",
  "password": "bar",
  "username": "new_foo"
}
```

Example response:

```
HTTP/1.0 200 OK
Content-Type: application/json

```
DELETE /storekeeper/api/users/ (int: id)  
Delete user (for administrators only)  

Parameters  
- **id** – ID of selected user for delete  

Status Codes  
- 200 OK – no error  
- 401 Unauthorized – user was not logged in  
- 403 Forbidden – user can not remove itself  
- 404 Not Found – there is no user  

Example request:  
DELETE /storekeeper/api/users/2 HTTP/1.1  
Host: localhost:8000  
Content-Type: application/json  

Example response:  
HTTP/1.0 200 OK  
Content-Type: application/json  

null  

Config management  

/api/users/<id>/config  
GET /storekeeper/api/users/ (int: id) /config  
List user items.  

Parameters  
- **id** – ID of user  

Status Codes  
- 200 OK – no error  
- 401 Unauthorized – user was not logged in  
- 404 Not Found – there is no item  

Example request:  
GET /storekeeper/api/users/2/config HTTP/1.1  
Host: localhost:8000  
Content-Type: application/json  

Example response:  
null
**POST** /storekeeper/api/users/\(<\text{int:} id\)>/config

Create user item

**Parameters**

- `id` – ID of user

**Status Codes**

- 201 Created – no error
- 401 Unauthorized – user was not logged in
- 404 Not Found – there is no item
- 422 Unprocessable Entity – there is wrong type / missing field / can not add one item twice

**Example request:**

```plaintext
POST /storekeeper/api/users/2/config HTTP/1.1
Host: localhost:8000
Content-Type: application/json

{
  "name": "lang",
  "value": "hu"
}
```

**Example response:**

```plaintext
HTTP/1.0 201 CREATED
Content-Type: application/json

{
  "name": "lang",
  "value": "hu"
}
```

/api/users/<id>/config/<id>

**GET** /storekeeper/api/users/\(<\text{int:} id\)>/config/

string: `name` Get user item

**Parameters**

- `id` – ID of user
- `name` – Name of selected user config value for get

**Status Codes**

- 200 OK – no error
- 401 Unauthorized – user was not logged in
• 404 Not Found – there is no user item

Example request:

GET /storekeeper/api/users/2/config/lang HTTP/1.1
Host: localhost:8000
Content-Type: application/json

Example response:

HTTP/1.0 200 OK
Content-Type: application/json

{  
  "name": "lang",
  "value": "hu"
}

PUT /storekeeper/api/users/\(\text{\texttt{int: id}}\)/config/
string: name Update user item

Parameters

• id – ID of user
• name – Name of selected user config value for put

Status Codes

• 200 OK – no error
• 401 Unauthorized – user was not logged in
• 404 Not Found – there is no user item
• 422 Unprocessable Entity – there is wrong type / missing field / can not use one config
  name twice

Example request:

PUT /storekeeper/api/users/2/config/lang HTTP/1.1
Host: localhost:8000
Content-Type: application/json

{  
  "name": "lang",
  "value": "hu"
}

Example response:

HTTP/1.0 200 OK
Content-Type: application/json

{  
  "name": "lang",
  "value": "hu"
}

DELETE /storekeeper/api/users/\(\text{\texttt{int: id}}\)/config/
string: name Delete user item

Parameters

• id – ID of user
• name – Name of selected user config value for delete

Status Codes
StoreKeeper Documentation, Release 0.6.0-beta

- 200 OK – no error
- 401 Unauthorized – user was not logged in
- 404 Not Found – there is no user item

Example request:

```plaintext
DELETE /storekeeper/api/users/2/config/lang HTTP/1.1
Host: localhost:8000
Content-Type: application/json
```

Example response:

```plaintext
HTTP/1.0 200 OK
Content-Type: application/json
null
```

Vendors
API endpoint for manage vendors.

Data management

/api/vendors
GET /storekeeper/api/vendors
List vendors

Status Codes
- 200 OK – no error
- 401 Unauthorized – user was not logged in

Example request:

```plaintext
GET /storekeeper/api/vendors HTTP/1.1
Host: localhost:8000
Content-Type: application/json
```

Example response:

```plaintext
HTTP/1.0 200 OK
Content-Type: application/json

[
  {
    "id": 1,
    "name": "Heavy Duty Ltd."
  },
  {
    "id": 2,
    "name": "Star Shop Ltd."
  }
]
```

POST /storekeeper/api/vendors
Create vendor

Status Codes
- 201 Created – no error
- 401 Unauthorized – user was not logged in
- 422 Unprocessable Entity – {original} / vendor is already exist
Example request:

```plaintext
POST /storekeeper/api/vendors HTTP/1.1
Host: localhost:8000
Content-Type: application/json

{
  "name": "Heavy Duty Ltd."
}
```

Example response:

```plaintext
HTTP/1.0 201 CREATED
Content-Type: application/json

{
  "id": 1,
  "name": "Heavy Duty Ltd."
}
```

/api/vendors/<id>

GET /storekeeper/api/vendors/(int:id)

Get vendor

Parameters

• id – ID of selected vendor for get

Status Codes

• 200 OK – no error
• 401 Unauthorized – user was not logged in
• 404 Not Found – there is no vendor

Example request:

```plaintext
GET /storekeeper/api/vendors/1 HTTP/1.1
Host: localhost:8000
Content-Type: application/json
```

Example response:

```plaintext
HTTP/1.0 200 OK
Content-Type: application/json

{
  "id": 1,
  "name": "Heavy Duty Ltd."
}
```

PUT /storekeeper/api/vendors/(int:id)

Update vendor

Parameters

• id – ID of selected vendor for put

Status Codes

• 200 OK – no error
• 401 Unauthorized – user was not logged in
• 404 Not Found – there is no vendor
• 422 Unprocessable Entity – {original} / vendor is already exist
Example request:

```plaintext
PUT /storekeeper/api/vendors/1 HTTP/1.1
Host: localhost:8000
Content-Type: application/json

{  
    "name": "new_foo"
}
```

Example response:

```plaintext
HTTP/1.0 200 OK
Content-Type: application/json

{  
    "id": 1,
    "name": "new_foo"
}
```

`DELETE /storekeeper/api/vendors/ (int: id)`
Delete vendor

**Parameters**
- `id` – ID of selected vendor for delete

**Status Codes**
- 200 OK – no error
- 401 Unauthorized – user was not logged in
- 404 Not Found – there is no vendor

Example request:

```plaintext
DELETE /storekeeper/api/vendors/1 HTTP/1.1
Host: localhost:8000
Content-Type: application/json

```

Example response:

```plaintext
HTTP/1.0 200 OK
Content-Type: application/json

null
```

**Works** API endpoint for manage works.

**Data management**

`/api/works`

GET `/storekeeper/api/works`
List works

**Status Codes**
- 200 OK – no error
- 401 Unauthorized – user was not logged in

Example request:
GET /storekeeper/api/works HTTP/1.1
Host: localhost:8000
Content-Type: application/json

Example response:

HTTP/1.0 200 OK
Content-Type: application/json

[
  {
    "comment": "First work",
    "customer": {
      "id": 1,
      "name": "Big Customer Ltd."
    },
    "id": 1,
    "outbound_close_timestamp": null,
    "outbound_close_user": {
      "admin": null,
      "disabled": null,
      "email": null,
      "id": null,
      "username": null
    },
    "returned_close_timestamp": null,
    "returned_close_user": {
      "admin": null,
      "disabled": null,
      "email": null,
      "id": null,
      "username": null
    }
  },
  {
    "comment": null,
    "customer": {
      "id": 2,
      "name": "Buy Everything Co."
    },
    "id": 2,
    "outbound_close_timestamp": null,
    "outbound_close_user": {
      "admin": null,
      "disabled": null,
      "email": null,
      "id": null,
      "username": null
    },
    "returned_close_timestamp": null,
    "returned_close_user": {
      "admin": null,
      "disabled": null,
      "email": null,
      "id": null,
      "username": null
    }
  }
]

POST /storekeeper/api/works
Create work

Status Codes

4.4. Server
• 201 Created – no error
• 401 Unauthorized – user was not logged in
• 422 Unprocessable Entity – there is wrong type / missing field

Example request:

```
POST /storekeeper/api/works HTTP/1.1
Host: localhost:8000
Content-Type: application/json

{
    "comment": "First work",
    "customer": {
        "id": 1,
        "name": "Big Customer Ltd."
    }
}
```

Example response:

```
HTTP/1.0 201 CREATED
Content-Type: application/json

{
    "comment": "First work",
    "customer": {
        "id": 1,
        "name": "Big Customer Ltd."
    },
    "id": 1,
    "outbound_close_timestamp": null,
    "outbound_close_user": {
        "admin": null,
        "disabled": null,
        "email": null,
        "id": null,
        "username": null
    },
    "returned_close_timestamp": null,
    "returned_close_user": {
        "admin": null,
        "disabled": null,
        "email": null,
        "id": null,
        "username": null
    }
}
```

/api/works/<id>

GET /storekeeper/api/works/(int:id)
Get work

Parameters

• id – ID of selected work for get

Status Codes

• 200 OK – no error
• 401 Unauthorized – user was not logged in
• 404 Not Found – there is no work
Example request:

```
GET /storekeeper/api/works/1 HTTP/1.1
Host: localhost:8000
Content-Type: application/json
```

Example response:

```
HTTP/1.0 200 OK
Content-Type: application/json

{
  "comment": "First work",
  "customer": {
    "id": 1,
    "name": "Big Customer Ltd."
  },
  "id": 1,
  "outbound_close_timestamp": null,
  "outbound_close_user": {
    "admin": null,
    "disabled": null,
    "email": null,
    "id": null,
    "username": null
  },
  "returned_close_timestamp": null,
  "returned_close_user": {
    "admin": null,
    "disabled": null,
    "email": null,
    "id": null,
    "username": null
  }
}
```

**PUT /storekeeper/api/works/\(\text{int: id}\)**

Update work

**Parameters**

- id – ID of selected work for put

**Status Codes**

- 200 OK – no error
- 401 Unauthorized – user was not logged in
- 404 Not Found – there is no work
- 422 Unprocessable Entity – there is wrong type / missing field

Example request:

```
PUT /storekeeper/api/works/1 HTTP/1.1
Host: localhost:8000
Content-Type: application/json

{
  "comment": "Something are not finished",
  "customer": {
    "id": 1,
    "name": "Big Customer Ltd."
  }
}
```

Example response:
DELETE /storekeeper/api/works/(int:id)
Delete work

Parameters

• id – ID of selected work for delete

Status Codes

• 200 OK – no error
• 401 Unauthorized – user was not logged in
• 404 Not Found – there is no work

Example request:
DELETE /storekeeper/api/works/1 HTTP/1.1
Host: localhost:8000
Content-Type: application/json

Example response:
HTTP/1.0 200 OK
Content-Type: application/json

null

/api/works/<id>/items
GET /storekeeper/api/works/(int:id)/items
List work items

Parameters

• id – ID of work

Status Codes
• 200 OK – no error
• 401 Unauthorized – user was not logged in
• 404 Not Found – there is no item

Example request:

GET /storekeeper/api/works/1/items HTTP/1.1
Host: localhost:8000
Content-Type: application/json

Example response:

HTTP/1.0 200 OK
Content-Type: application/json

[
{
  "id": 1,
  "item": {
    "article_number": "FO213546",
    "id": 2,
    "location": "B02/01",
    "name": "Pipe",
    "purchase_price": 0.0,
    "quantity": 0.0,
    "unit": {
      "id": 1,
      "unit": "m"
    },
    "vendor": {
      "id": 2,
      "name": "Star Shop Ltd."
    },
    "warning_quantity": 0.0
  },
  "outbound_quantity": 132.8,
  "returned_quantity": null
},
{
  "id": 2,
  "item": {
    "article_number": "SK132465",
    "id": 1,
    "location": "A12/12",
    "name": "Spray",
    "purchase_price": 60.4,
    "quantity": 0.0,
    "unit": {
      "id": 2,
      "unit": "pcs"
    },
    "vendor": {
      "id": 1,
      "name": "Heavy Duty Ltd."
    },
    "warning_quantity": 4.0
  },
  "outbound_quantity": 41.2,
  "returned_quantity": 2.1
}
]

POST /storekeeper/api/works/ (int: id) /items
Create work item

4.4. Server
Parameters

- **id** – ID of work

Status Codes

- 201 Created – no error
- 401 Unauthorized – user was not logged in
- 403 Forbidden – can not add new work item after outbound items was closed
- 404 Not Found – there is no item
- 422 Unprocessable Entity – there is wrong type / missing field / can not add one item twice

Example request:

```plaintext
POST /storekeeper/api/works/1/items HTTP/1.1
Host: localhost:8000
Content-Type: application/json

{
    "item": {
        "article_number": "FO213546",
        "id": 2,
        "location": "B02/01",
        "name": "Pipe",
        "purchase_price": 0.0,
        "quantity": 0.0,
        "unit": {
            "id": 1,
            "unit": "m"
        },
        "vendor": {
            "id": 2,
            "name": "Star Shop Ltd."
        },
        "warning_quantity": 0.0
    },
    "outbound_quantity": 132.8
}
```

Example response:

```
HTTP/1.0 201 CREATED
Content-Type: application/json

{
    "id": 1,
    "item": {
        "article_number": "FO213546",
        "id": 2,
        "location": "B02/01",
        "name": "Pipe",
        "purchase_price": 0.0,
        "quantity": 0.0,
        "unit": {
            "id": 1,
            "unit": "m"
        },
        "vendor": {
            "id": 2,
            "name": "Star Shop Ltd."
        }
    }
}
```
"warning_quantity": 0.0
},
"outbound_quantity": 132.8,
"returned_quantity": null
}

/api/works/<id>/items/<item_id>

GET /storekeeper/api/works/(int:id)/items/
int: item_id Get work item

Parameters

• id – ID of work

• item_id – ID of selected work item for get

Status Codes

• 200 OK – no error

• 401 Unauthorized – user was not logged in

• 404 Not Found – there is no work item

Example request:

GET /storekeeper/api/works/1/items/1 HTTP/1.1
Host: localhost:8000
Content-Type: application/json

Example response:

HTTP/1.0 200 OK
Content-Type: application/json

{
  "id": 1,
  "item": {
    "article_number": "FO213546",
    "id": 2,
    "location": "B02/01",
    "name": "Pipe",
    "purchase_price": 0.0,
    "quantity": 0.0,
    "unit": {
      "id": 1,
      "unit": "m"
    },
    "vendor": {
      "id": 2,
      "name": "Star Shop Ltd."
    },
    "warning_quantity": 0.0
  },
  "outbound_quantity": 132.8,
  "returned_quantity": null
}

PUT /storekeeper/api/works/(int:id)/items/
int: item_id Update work item

Parameters

• id – ID of work

• item_id – ID of selected work item for get

4.4. Server
Status Codes

- 200 OK – no error
- 401 Unauthorized – user was not logged in
- 403 Forbidden – can not change work item after outbound/returned items was closed
- 404 Not Found – there is no work item
- 422 Unprocessable Entity – there is wrong type / missing field / can not add one item twice

Example request:

```
PUT /storekeeper/api/works/1/items/1 HTTP/1.1
Host: localhost:8000
Content-Type: application/json

{
   "item": {
      "article_number": "FO213546",
      "id": 2,
      "location": "B02/01",
      "name": "Pipe",
      "purchase_price": 0.0,
      "quantity": 0.0,
      "unit": {
         "id": 1,
         "unit": "m"
      },
      "vendor": {
         "id": 2,
         "name": "Star Shop Ltd."
      },
      "warning_quantity": 0.0
   },
   "outbound_quantity": 132.8
}
```

Example response:

```
HTTP/1.0 200 OK
Content-Type: application/json

{
   "id": 1,
   "item": {
      "article_number": "FO213546",
      "id": 2,
      "location": "B02/01",
      "name": "Pipe",
      "purchase_price": 0.0,
      "quantity": 0.0,
      "unit": {
         "id": 1,
         "unit": "m"
      },
      "vendor": {
         "id": 2,
         "name": "Star Shop Ltd."
      },
      "warning_quantity": 0.0
   },
   "outbound_quantity": 132.8,
}
```
DELETE /storekeeper/api/works/(int:id)/items/(int:item_id) Delete work item

Parameters
- **id** – ID of work
- **item_id** – ID of selected work item for get

Status Codes
- 200 OK – no error
- 401 Unauthorized – user was not logged in
- 403 Forbidden – can not delete work item after outbound/returned items was closed
- 404 Not Found – there is no work item

Example request:
```
DELETE /storekeeper/api/works/1/items/1 HTTP/1.1
Host: localhost:8000
Content-Type: application/json
```

Example response:
```
HTTP/1.0 200 OK
Content-Type: application/json

null
```

Commands

/api/works/<id>/close-outbound

PUT /storekeeper/api/works/(int:id)/close-outbound Close outbound items on work

Parameters
- **id** – ID of selected work for put

Status Codes
- 200 OK – no error
- 401 Unauthorized – user was not logged in
- 404 Not Found – there is no work
- 422 Unprocessable Entity – there is wrong type / missing field / outbound items have been closed / insufficient quantities for close the outbound work items

Example request:
```
PUT /storekeeper/api/works/1/close-outbound HTTP/1.1
Host: localhost:8000
Content-Type: application/json
```

Example response:
```
HTTP/1.0 200 OK
Content-Type: application/json

{}
/api/works/<id>/close-returned

PUT /storekeeper/api/works/\(\text{int: id}\)/close-returned

Close returned items on work

Parameters

- **id** – ID of selected work for put

Status Codes

- 200 OK – no error
- 401 Unauthorized – user was not logged in
- 404 Not Found – there is no work
- 422 Unprocessable Entity – there is wrong type / missing field / outbound items have not been closed / returned items have been closed / insufficient quantities for close the returned work items

Example request:

```
PUT /storekeeper/api/works/1/close-returned HTTP/1.1
Host: localhost:8000
Content-Type: application/json
```

Example response:

```
HTTP/1.0 200 OK
Content-Type: application/json

{
    "comment": "First work",
    "customer": {
        "id": 1,
        "name": "Big Customer Ltd."
    },
    "id": 1,
    "outbound_close_timestamp": "2016-03-18T07:58:11.557633+00:00",
    "outbound_close_user": {
        "email": "foo@bar.com",
        "id": 2,
        "username": "foo"
    },
    "returned_close_timestamp": null,
    "returned_close_user": {
        "admin": null,
        "email": null,
        "id": null,
        "username": null
    }
}
```
4.4.2 Details

SQL Model

This software is SQL independent (thank you for SQL Alchemy), and we want to hold it in future. However, requirements, installer scripts, tests were prepared for and ran on PostgreSQL, MySQL and SQLite databases.
• genindex
<table>
<thead>
<tr>
<th>HTTP Method</th>
<th>URL</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>GET</td>
<td>/storekeeper/api/acquisitions</td>
<td>12</td>
</tr>
<tr>
<td>GET</td>
<td>/storekeeper/api/acquisitions/(int:id)</td>
<td>13</td>
</tr>
<tr>
<td>GET</td>
<td>/storekeeper/api/acquisitions/(int:id)/items</td>
<td>17</td>
</tr>
<tr>
<td>GET</td>
<td>/storekeeper/api/acquisitions/(int:id)/items/(int:item_id)</td>
<td>17</td>
</tr>
<tr>
<td>GET</td>
<td>/storekeeper/api/barcodes</td>
<td>19</td>
</tr>
<tr>
<td>GET</td>
<td>/storekeeper/api/config</td>
<td>20</td>
</tr>
<tr>
<td>GET</td>
<td>/storekeeper/api/customers</td>
<td>21</td>
</tr>
<tr>
<td>GET</td>
<td>/storekeeper/api/customers/(int:id)</td>
<td>22</td>
</tr>
<tr>
<td>GET</td>
<td>/storekeeper/api/items</td>
<td>24</td>
</tr>
<tr>
<td>GET</td>
<td>/storekeeper/api/items/(int:id)</td>
<td>26</td>
</tr>
<tr>
<td>GET</td>
<td>/storekeeper/api/items/(int:id)/barcodes</td>
<td>28</td>
</tr>
<tr>
<td>GET</td>
<td>/storekeeper/api/items/(int:item_id)/barcodes/(int:id)</td>
<td>31</td>
</tr>
<tr>
<td>GET</td>
<td>/storekeeper/api/items/search</td>
<td>25</td>
</tr>
<tr>
<td>GET</td>
<td>/storekeeper/api/session</td>
<td>32</td>
</tr>
<tr>
<td>GET</td>
<td>/storekeeper/api/stocktakings</td>
<td>33</td>
</tr>
<tr>
<td>GET</td>
<td>/storekeeper/api/stocktakings/(int:id)</td>
<td>35</td>
</tr>
<tr>
<td>GET</td>
<td>/storekeeper/api/stocktakings/(int:id)/items</td>
<td>39</td>
</tr>
<tr>
<td>GET</td>
<td>/storekeeper/api/items/(int:id)</td>
<td>42</td>
</tr>
<tr>
<td>GET</td>
<td>/storekeeper/api/items/(int:id)/barcodes/(int:id)</td>
<td>48</td>
</tr>
<tr>
<td>GET</td>
<td>/storekeeper/api/units</td>
<td>42</td>
</tr>
<tr>
<td>PUT</td>
<td>/storekeeper/api/acquisitions/(int:id)</td>
<td>14</td>
</tr>
<tr>
<td>PUT</td>
<td>/storekeeper/api/acquisitions/(int:id)/items/(int:item_id)</td>
<td>18</td>
</tr>
<tr>
<td>GET</td>
<td>/storekeeper/api/users</td>
<td>44</td>
</tr>
<tr>
<td>GET</td>
<td>/storekeeper/api/users/(int:id)</td>
<td>47</td>
</tr>
<tr>
<td>GET</td>
<td>/storekeeper/api/users/(int:id)/config</td>
<td>48</td>
</tr>
<tr>
<td>GET</td>
<td>/storekeeper/api/vendors</td>
<td>50</td>
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