Rapport 1

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Inhoudsopgave

1 Status

2 Design

2.1 Keuzes

2.1.1 Dependencies
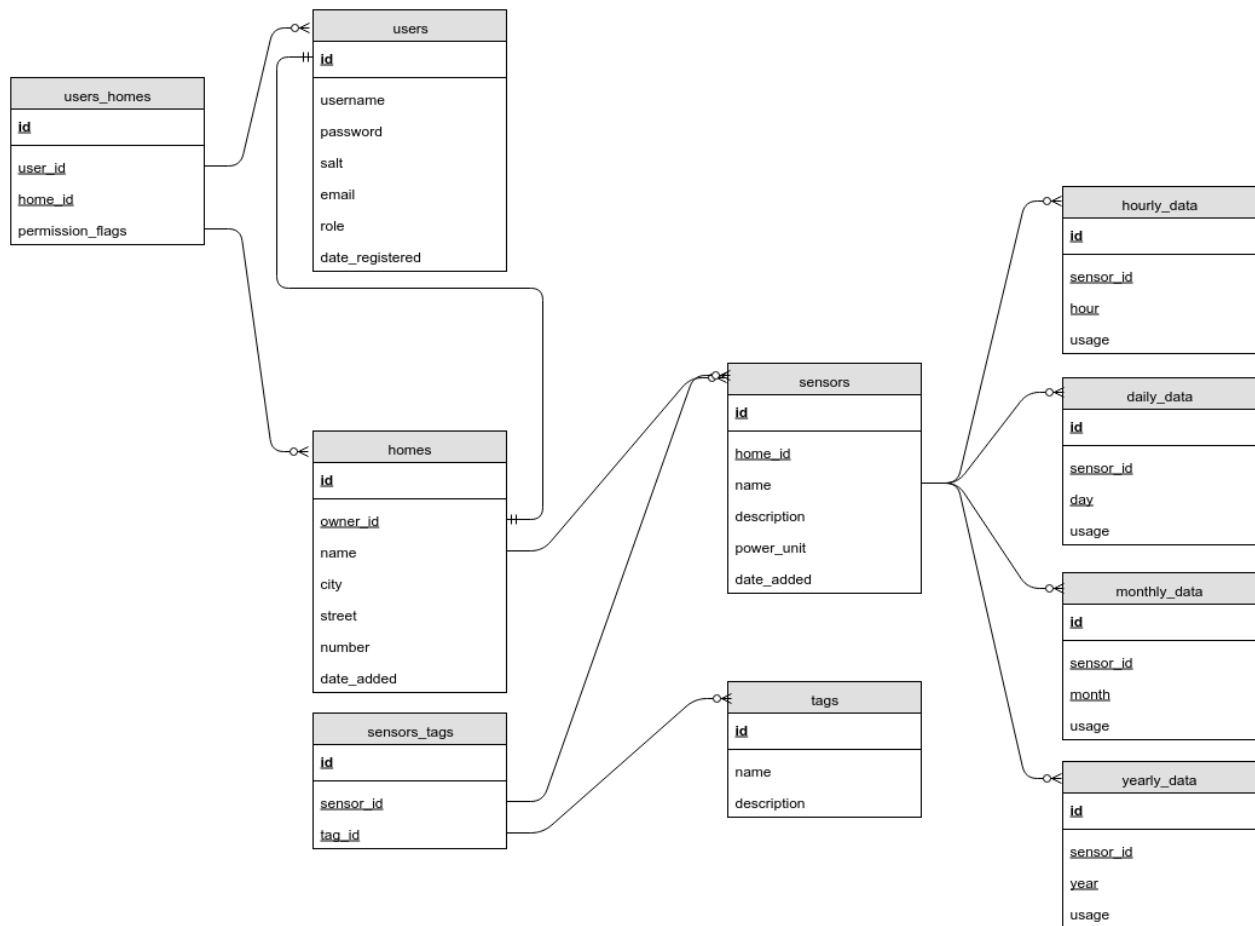
Clientside

- node.js

- npm

- ember-cli (via npm)

- bower (via npm)

- ember-material-design? (via ember, not yet included)

Serverside

- python 3

- django (via pip)

- djangorestframework (via pip)

- markdown (via pip)

- django-filter (via pip)

2.2   Database Schema

Zie **figuur 1**.

Figuur 1: Het 'Entity Relation Diagram'.

2.3 UML Schema

Zie **figuur 2**.
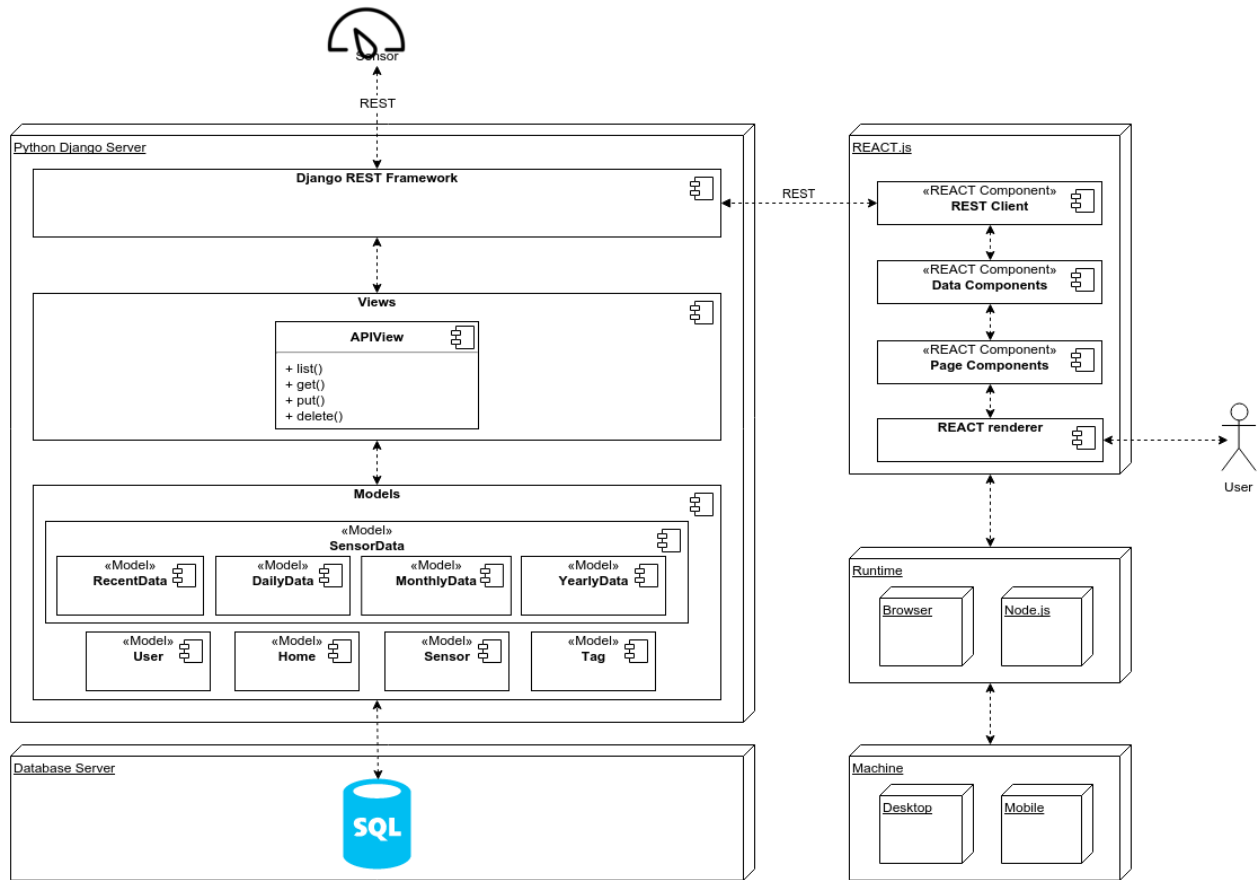
Figuur 2: Deployment diagram voor server (links) en client (rechts).

3 Product

3.1 Basisvereisten

3.2 Extra functionaliteit

4 Planning

5 Appendix

5.1 SQL Queries

5.1.1 Households

```
/* list all households */
SELECT homes.id, homes.owner_id, homes.name, homes.country, homes.
   city, homes.zipcode, homes.street, homes.house_number, homes.
   date_added
```

```
FROM homes;

/* retrieve household by home ID */
SELECT homes.id, homes.owner_id, homes.name, homes.country, homes.
   city, homes.zipcode, homes.street, homes.house_number, homes.
   date_added
FROM homes
WHERE homes.id = $ID;

/* retrieve household by user ID */
SELECT homes.id, homes.owner_id, homes.name, homes.country, homes.
   city, homes.zipcode, homes.street, homes.house_number, homes.
   date_added
FROM homes
INNER JOIN users_homes
ON (homes.id = users_homes.home_id)
WHERE users_homes.user_id = $ID;
```

5.1.2 Sensors

```
/* list all sensors */
SELECT sensors.id, sensors.home_id, sensors.name, sensors.
   description, sensors.power_unit, sensors.date_created
FROM sensors;

/* retrieve sensor by id */
SELECT sensors.id, sensors.home_id, sensors.name, sensors.
   description, sensors.power_unit, sensors.date_created
FROM sensors
WHERE sensors.id = $ID;

/* retreive sensors by tag id */
SELECT sensors.id, sensors.home_id, sensors.name, sensors.
   description, sensors.power_unit, sensors.date_created
FROM sensors
INNER JOIN sensors_tags
ON (sensors.id = sensors_tags.sensor_id)
WHERE sensors_tags.tag_id = $ID;
```

5.1.3 Sensor Tags

```
/* list all tags */
SELECT tags.id, tags.name, tags.description
FROM tags;

/* retrieve tag by id */
SELECT tags.id, tags.name, tags.description
```

```
FROM tags
WHERE tags.id = $ID;

/* retrieve tags for a given sensor (by id) */
SELECT tags.id, tags.name, tags.description
FROM tags
INNER JOIN sensors_tags
ON (tags.id = sensors_tags.tag_id)
WHERE sensors_tags.sensor_id = $ID;
```

5.1.4 Sensor Data

```
/* list the sum total usage of all sensors for each minute of today
   for a given user */
SELECT recent_data.timestamp, sensors.home_id AS home_id, homes.name
    AS home_name, SUM(recent_data.usage) AS usage
FROM recent_data
INNER JOIN sensors
ON (recent_data.sensor_id = sensors.id)
INNER JOIN homes ON (sensors.home_id = homes.id)
WHERE (homes.owner_id = $ID AND recent_data.timestamp >= DATE_SUB(
   NOW(), INTERVAL 1 DAY) AND recent_data.timestamp < NOW() )
GROUP BY recent_data.timestamp, sensors.home_id, homes.name
ORDER BY home_id ASC, recent_data.timestamp ASC;

/* Aggregate all minutely data from today into one record for all
   sensors */
INSERT INTO daily_data (sensor_id, timestamp, usage, n_measurements)
SELECT recent_data.sensor_id, CONCAT(DATE(NOW()), ' 00:00:00') AS
   new_date, AVG(recent_data.usage), SUM(recent_data.n_measurements)
FROM recent_data
WHERE ( recent_data.timestamp >= new_date AND recent_data.timestamp
   < DATE_ADD(new_date, INTERVAL 1 DAY) )
GROUP BY recent_data.sensor_id
```

5.2 SQL Database Structure

```
-- phpMyAdmin SQL Dump
-- version 4.4.13.1deb1
-- http://www.phpmyadmin.net
--
-- Host: localhost
-- Gegenereerd op: 25 apr 2016 om 21:29
-- Serverversie: 5.6.28-0ubuntu0.15.10.1
-- PHP-versie: 5.6.11-1ubuntu3.1

SET SQL_MODE = "NO_AUTO_VALUE_ON_ZERO";
```

```sql
SET time_zone = "+00:00";


/*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */;
/*!40101 SET @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */;
/*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */;
/*!40101 SET NAMES utf8mb4 */;


--
-- Database: `smarthome`
--


-- --------------------------------------------------------


--
-- Tabelstructuur voor tabel `account_emailaddress`
--

CREATE TABLE IF NOT EXISTS `account_emailaddress` (
  `id` int(11) NOT NULL,
  `email` varchar(254) NOT NULL,
  `verified` tinyint(1) NOT NULL,
  `primary` tinyint(1) NOT NULL,
  `user_id` int(11) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

-- --------------------------------------------------------


--
-- Tabelstructuur voor tabel `account_emailconfirmation`
--

CREATE TABLE IF NOT EXISTS `account_emailconfirmation` (
  `id` int(11) NOT NULL,
  `created` datetime(6) NOT NULL,
  `sent` datetime(6) DEFAULT NULL,
  `key` varchar(64) NOT NULL,
  `email_address_id` int(11) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

-- --------------------------------------------------------


--
-- Tabelstructuur voor tabel `authtoken_token`
--
```

```
CREATE TABLE IF NOT EXISTS `authtoken_token` (
  `key` varchar(40) NOT NULL,
  `created` datetime(6) NOT NULL,
  `user_id` int(11) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

-- --------------------------------------------------------

--
-- Tabelstructuur voor tabel `auth_group`
--

CREATE TABLE IF NOT EXISTS `auth_group` (
  `id` int(11) NOT NULL,
  `name` varchar(80) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

-- --------------------------------------------------------

--
-- Tabelstructuur voor tabel `auth_group_permissions`
--

CREATE TABLE IF NOT EXISTS `auth_group_permissions` (
  `id` int(11) NOT NULL,
  `group_id` int(11) NOT NULL,
  `permission_id` int(11) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

-- --------------------------------------------------------

--
-- Tabelstructuur voor tabel `auth_permission`
--

CREATE TABLE IF NOT EXISTS `auth_permission` (
  `id` int(11) NOT NULL,
  `name` varchar(255) NOT NULL,
  `content_type_id` int(11) NOT NULL,
  `codename` varchar(100) NOT NULL
) ENGINE=InnoDB AUTO_INCREMENT=76 DEFAULT CHARSET=latin1;

--
-- Gegevens worden ge xporteerd voor tabel `auth_permission`
```

```sql
--

INSERT INTO `auth_permission` (`id`, `name`, `content_type_id`, `codename`) VALUES
(1, 'Can add log entry', 1, 'add_logentry'),
(2, 'Can change log entry', 1, 'change_logentry'),
(3, 'Can delete log entry', 1, 'delete_logentry'),
(4, 'Can add permission', 2, 'add_permission'),
(5, 'Can change permission', 2, 'change_permission'),
(6, 'Can delete permission', 2, 'delete_permission'),
(7, 'Can add group', 3, 'add_group'),
(8, 'Can change group', 3, 'change_group'),
(9, 'Can delete group', 3, 'delete_group'),
(10, 'Can add user', 4, 'add_user'),
(11, 'Can change user', 4, 'change_user'),
(12, 'Can delete user', 4, 'delete_user'),
(13, 'Can add content type', 5, 'add_contenttype'),
(14, 'Can change content type', 5, 'change_contenttype'),
(15, 'Can delete content type', 5, 'delete_contenttype'),
(16, 'Can add session', 6, 'add_session'),
(17, 'Can change session', 6, 'change_session'),
(18, 'Can delete session', 6, 'delete_session'),
(19, 'Can add site', 7, 'add_site'),
(20, 'Can change site', 7, 'change_site'),
(21, 'Can delete site', 7, 'delete_site'),
(22, 'Can add token', 8, 'add_token'),
(23, 'Can change token', 8, 'change_token'),
(24, 'Can delete token', 8, 'delete_token'),
(25, 'Can add email address', 9, 'add_emailaddress'),
(26, 'Can change email address', 9, 'change_emailaddress'),
(27, 'Can delete email address', 9, 'delete_emailaddress'),
(28, 'Can add email confirmation', 10, 'add_emailconfirmation'),
(29, 'Can change email confirmation', 10, 'change_emailconfirmation'),
(30, 'Can delete email confirmation', 10, 'delete_emailconfirmation'),
(31, 'Can add social application', 11, 'add_socialapp'),
(32, 'Can change social application', 11, 'change_socialapp'),
(33, 'Can delete social application', 11, 'delete_socialapp'),
(34, 'Can add social account', 12, 'add_socialaccount'),
(35, 'Can change social account', 12, 'change_socialaccount'),
(36, 'Can delete social account', 12, 'delete_socialaccount'),
(37, 'Can add social application token', 13, 'add_socialtoken'),
(38, 'Can change social application token', 13, 'change_socialtoken'),
```

```
(39, 'Can␣delete␣social␣application␣token', 13, 'delete_socialtoken'
    ),
(40, 'Can␣add␣cors␣model', 14, 'add_corsmodel'),
(41, 'Can␣change␣cors␣model', 14, 'change_corsmodel'),
(42, 'Can␣delete␣cors␣model', 14, 'delete_corsmodel'),
(43, 'Can␣add␣home', 15, 'add_home'),
(44, 'Can␣change␣home', 15, 'change_home'),
(45, 'Can␣delete␣home', 15, 'delete_home'),
(46, 'Can␣add␣sensor', 16, 'add_sensor'),
(47, 'Can␣change␣sensor', 16, 'change_sensor'),
(48, 'Can␣delete␣sensor', 16, 'delete_sensor'),
(49, 'Can␣add␣sensors␣tags', 17, 'add_sensorstags'),
(50, 'Can␣change␣sensors␣tags', 17, 'change_sensorstags'),
(51, 'Can␣delete␣sensors␣tags', 17, 'delete_sensorstags'),
(52, 'Can␣add␣tag', 18, 'add_tag'),
(53, 'Can␣change␣tag', 18, 'change_tag'),
(54, 'Can␣delete␣tag', 18, 'delete_tag'),
(55, 'Can␣add␣users␣homes', 19, 'add_usershomes'),
(56, 'Can␣change␣users␣homes', 19, 'change_usershomes'),
(57, 'Can␣delete␣users␣homes', 19, 'delete_usershomes'),
(58, 'Can␣add␣yearly␣data', 20, 'add_yearlydata'),
(59, 'Can␣change␣yearly␣data', 20, 'change_yearlydata'),
(60, 'Can␣delete␣yearly␣data', 20, 'delete_yearlydata'),
(61, 'Can␣add␣monthly␣data', 21, 'add_monthlydata'),
(62, 'Can␣change␣monthly␣data', 21, 'change_monthlydata'),
(63, 'Can␣delete␣monthly␣data', 21, 'delete_monthlydata'),
(64, 'Can␣add␣daily␣data', 22, 'add_dailydata'),
(65, 'Can␣change␣daily␣data', 22, 'change_dailydata'),
(66, 'Can␣delete␣daily␣data', 22, 'delete_dailydata'),
(67, 'Can␣add␣recent␣data', 23, 'add_recentdata'),
(68, 'Can␣change␣recent␣data', 23, 'change_recentdata'),
(69, 'Can␣delete␣recent␣data', 23, 'delete_recentdata'),
(70, 'Can␣add␣friend␣request', 24, 'add_friendrequest'),
(71, 'Can␣change␣friend␣request', 24, 'change_friendrequest'),
(72, 'Can␣delete␣friend␣request', 24, 'delete_friendrequest'),
(73, 'Can␣add␣post', 25, 'add_post'),
(74, 'Can␣change␣post', 25, 'change_post'),
(75, 'Can␣delete␣post', 25, 'delete_post');

-- --------------------------------------------------------


--
-- Tabelstructuur voor tabel `auth_user`
--
```

```sql
CREATE TABLE IF NOT EXISTS `auth_user` (
  `id` int(11) NOT NULL,
  `password` varchar(128) NOT NULL,
  `last_login` datetime(6) DEFAULT NULL,
  `is_superuser` tinyint(1) NOT NULL,
  `username` varchar(30) NOT NULL,
  `first_name` varchar(30) NOT NULL,
  `last_name` varchar(30) NOT NULL,
  `email` varchar(254) NOT NULL,
  `is_staff` tinyint(1) NOT NULL,
  `is_active` tinyint(1) NOT NULL,
  `date_joined` datetime(6) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

-- --------------------------------------------------------

--
-- Tabelstructuur voor tabel `auth_user_groups`
--

CREATE TABLE IF NOT EXISTS `auth_user_groups` (
  `id` int(11) NOT NULL,
  `user_id` int(11) NOT NULL,
  `group_id` int(11) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

-- --------------------------------------------------------

--
-- Tabelstructuur voor tabel `auth_user_user_permissions`
--

CREATE TABLE IF NOT EXISTS `auth_user_user_permissions` (
  `id` int(11) NOT NULL,
  `user_id` int(11) NOT NULL,
  `permission_id` int(11) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

-- --------------------------------------------------------

--
-- Tabelstructuur voor tabel `daily_data`
--

CREATE TABLE IF NOT EXISTS `daily_data` (
```

```
  `id` int (11) NOT NULL ,
  `timestamp` datetime (6) NOT NULL ,
  `usage` int (11) NOT NULL ,
  `n_measurements` int (11) NOT NULL ,
  `sensor_id` int (11) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

-- --------------------------------------------------------

--
-- Tabelstructuur voor tabel `friend_requests`
--

CREATE TABLE IF NOT EXISTS `friend_requests` (
  `id` int (11) NOT NULL ,
  `status` int (11) NOT NULL ,
  `date_sent` datetime (6) NOT NULL ,
  `receiver_id` int (11) NOT NULL ,
  `sender_id` int (11) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

-- --------------------------------------------------------

--
-- Tabelstructuur voor tabel `homes`
--

CREATE TABLE IF NOT EXISTS `homes` (
  `id` int (11) NOT NULL ,
  `name` varchar (64) NOT NULL ,
  `country` varchar (2) NOT NULL ,
  `city` varchar (64) NOT NULL ,
  `zipcode` varchar (16) NOT NULL ,
  `street` varchar (64) NOT NULL ,
  `house_number` varchar (8) NOT NULL ,
  `date_added` datetime (6) NOT NULL ,
  `owner_id` int (11) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

-- --------------------------------------------------------

--
-- Tabelstructuur voor tabel `messages`
--
```

```
CREATE TABLE IF NOT EXISTS `messages` (
  `id` int(11) NOT NULL,
  `content` longtext NOT NULL,
  `plot` longtext NOT NULL,
  `date_sent` datetime(6) NOT NULL,
  `receiver_id` int(11) NOT NULL,
  `sender_id` int(11) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

-- --------------------------------------------------------

--
-- Tabelstructuur voor tabel `monthly_data`
--

CREATE TABLE IF NOT EXISTS `monthly_data` (
  `id` int(11) NOT NULL,
  `timestamp` datetime(6) NOT NULL,
  `usage` int(11) NOT NULL,
  `n_measurements` int(11) NOT NULL,
  `sensor_id` int(11) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

-- --------------------------------------------------------

--
-- Tabelstructuur voor tabel `recent_data`
--

CREATE TABLE IF NOT EXISTS `recent_data` (
  `id` int(11) NOT NULL,
  `timestamp` datetime(6) NOT NULL,
  `usage` int(11) NOT NULL,
  `n_measurements` int(11) NOT NULL,
  `sensor_id` int(11) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

-- --------------------------------------------------------

--
-- Tabelstructuur voor tabel `sensors`
--

CREATE TABLE IF NOT EXISTS `sensors` (
  `id` int(11) NOT NULL,
```

```sql
  `name` varchar (64) NOT NULL ,
  `description` varchar (256) NOT NULL ,
  `power_unit` varchar (3) NOT NULL ,
  `date_created` datetime (6) NOT NULL ,
  `home_id` int (11) NOT NULL
) ENGINE = InnoDB DEFAULT CHARSET = latin1 ;


-- --------------------------------------------------------


--
-- Tabelstructuur voor tabel `sensors_tags`
--

CREATE TABLE IF NOT EXISTS `sensors_tags` (
  `id` int (11) NOT NULL ,
  `date_created` datetime (6) NOT NULL ,
  `sensor_id` int (11) NOT NULL ,
  `tag_id` int (11) NOT NULL
) ENGINE = InnoDB DEFAULT CHARSET = latin1 ;


-- --------------------------------------------------------


--
-- Tabelstructuur voor tabel `tags`
--

CREATE TABLE IF NOT EXISTS `tags` (
  `id` int (11) NOT NULL ,
  `name` varchar (64) NOT NULL ,
  `description` varchar (256) NOT NULL ,
  `date_created` datetime (6) NOT NULL
) ENGINE = InnoDB DEFAULT CHARSET = latin1 ;


-- --------------------------------------------------------


--
-- Tabelstructuur voor tabel `users_homes`
--

CREATE TABLE IF NOT EXISTS `users_homes` (
  `id` int (11) NOT NULL ,
  `permission_flags` int (11) NOT NULL ,
  `date_created` datetime (6) NOT NULL ,
  `home_id` int (11) NOT NULL ,
  `user_id` int (11) NOT NULL
```

```
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

-- --------------------------------------------------------

--
-- Tabelstructuur voor tabel 'yearly_data'
--

CREATE TABLE IF NOT EXISTS 'yearly_data' (
  'id' int(11) NOT NULL,
  'timestamp' datetime(6) NOT NULL,
  'usage' int(11) NOT NULL,
  'n_measurements' int(11) NOT NULL,
  'sensor_id' int(11) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--
-- Indexen voor ge xporteerde tabellen
--

--
-- Indexen voor tabel 'account_emailaddress'
--
ALTER TABLE 'account_emailaddress'
  ADD PRIMARY KEY ('id'),
  ADD UNIQUE KEY 'email' ('email'),
  ADD KEY 'account_emailaddress_user_id_2c513194_fk_auth_user_id' ('
      user_id');

--
-- Indexen voor tabel 'account_emailconfirmation'
--
ALTER TABLE 'account_emailconfirmation'
  ADD PRIMARY KEY ('id'),
  ADD UNIQUE KEY 'key' ('key'),
  ADD KEY '
      account_ema_email_address_id_5b7f8c58_fk_account_emailaddress_id
      ' ('email_address_id');

--
-- Indexen voor tabel 'authtoken_token'
--
ALTER TABLE 'authtoken_token'
  ADD PRIMARY KEY ('key'),
  ADD UNIQUE KEY 'user_id' ('user_id');
```

```
--
-- Indexen voor tabel `auth_group`
--
ALTER TABLE `auth_group`
  ADD PRIMARY KEY (`id`),
  ADD UNIQUE KEY `name` (`name`);


--
-- Indexen voor tabel `auth_group_permissions`
--
ALTER TABLE `auth_group_permissions`
  ADD PRIMARY KEY (`id`),
  ADD UNIQUE KEY `auth_group_permissions_group_id_0cd325b0_uniq` (`
      group_id`,`permission_id`),
  ADD KEY `
      auth_group_permissi_permission_id_84c5c92e_fk_auth_permission_id
      ` (`permission_id`);


--
-- Indexen voor tabel `auth_permission`
--
ALTER TABLE `auth_permission`
  ADD PRIMARY KEY (`id`),
  ADD UNIQUE KEY `auth_permission_content_type_id_01ab375a_uniq` (`
      content_type_id`,`codename`);


--
-- Indexen voor tabel `auth_user`
--
ALTER TABLE `auth_user`
  ADD PRIMARY KEY (`id`),
  ADD UNIQUE KEY `username` (`username`);


--
-- Indexen voor tabel `auth_user_groups`
--
ALTER TABLE `auth_user_groups`
  ADD PRIMARY KEY (`id`),
  ADD UNIQUE KEY `auth_user_groups_user_id_94350c0c_uniq` (`user_id
      `,`group_id`),
  ADD KEY `auth_user_groups_group_id_97559544_fk_auth_group_id` (`
      group_id`);


--
```

```
-- Indexen voor tabel 'auth_user_user_permissions'
--
ALTER TABLE 'auth_user_user_permissions'
  ADD PRIMARY KEY ('id'),
  ADD UNIQUE KEY 'auth_user_user_permissions_user_id_14a6b632_uniq'
    ('user_id','permission_id'),
  ADD KEY '
    auth_user_user_perm_permission_id_1fbb5f2c_fk_auth_permission_id
    ' ('permission_id');


--
-- Indexen voor tabel 'daily_data'
--
ALTER TABLE 'daily_data'
  ADD PRIMARY KEY ('id'),
  ADD KEY 'daily_data_d96d866a' ('sensor_id');


--
-- Indexen voor tabel 'friend_requests'
--
ALTER TABLE 'friend_requests'
  ADD PRIMARY KEY ('id'),
  ADD KEY 'friend_requests_receiver_id_6e370850_fk_auth_user_id' ('
    receiver_id'),
  ADD KEY 'friend_requests_sender_id_e02b64d5_fk_auth_user_id' ('
    sender_id');


--
-- Indexen voor tabel 'homes'
--
ALTER TABLE 'homes'
  ADD PRIMARY KEY ('id'),
  ADD KEY 'homes_owner_id_32e87e52_fk_auth_user_id' ('owner_id');


--
-- Indexen voor tabel 'messages'
--
ALTER TABLE 'messages'
  ADD PRIMARY KEY ('id'),
  ADD KEY 'messages_receiver_id_874b4e0a_fk_auth_user_id' ('
    receiver_id'),
  ADD KEY 'messages_sender_id_dc5a0bbd_fk_auth_user_id' ('sender_id
    ');


--
```

```sql
-- Indexen voor tabel `monthly_data`
--
ALTER TABLE `monthly_data`
  ADD PRIMARY KEY (`id`),
  ADD KEY `monthly_data_d96d866a` (`sensor_id`);


--
-- Indexen voor tabel `recent_data`
--
ALTER TABLE `recent_data`
  ADD PRIMARY KEY (`id`),
  ADD KEY `recent_data_d96d866a` (`sensor_id`);


--
-- Indexen voor tabel `sensors`
--
ALTER TABLE `sensors`
  ADD PRIMARY KEY (`id`),
  ADD KEY `sensors_home_id_1b6b9891_fk_homes_id` (`home_id`);


--
-- Indexen voor tabel `sensors_tags`
--
ALTER TABLE `sensors_tags`
  ADD PRIMARY KEY (`id`),
  ADD KEY `sensors_tags_sensor_id_ec6d5d5a_fk_sensors_id` (`
      sensor_id`),
  ADD KEY `sensors_tags_76f094bc` (`tag_id`);


--
-- Indexen voor tabel `tags`
--
ALTER TABLE `tags`
  ADD PRIMARY KEY (`id`);


--
-- Indexen voor tabel `users_homes`
--
ALTER TABLE `users_homes`
  ADD PRIMARY KEY (`id`),
  ADD KEY `users_homes_home_id_6d8097a2_fk_homes_id` (`home_id`),
  ADD KEY `users_homes_user_id_c35d6efe_fk_auth_user_id` (`user_id`)
      ;


--
```

```sql
-- Indexen voor tabel 'yearly_data'
--
ALTER TABLE 'yearly_data'
  ADD PRIMARY KEY ('id'),
  ADD KEY 'yearly_data_sensor_id_349bf5e9_fk_sensors_id' ('sensor_id
      ');


--
-- AUTO_INCREMENT voor ge xporteerde tabellen
--


--
-- AUTO_INCREMENT voor een tabel 'account_emailaddress'
--
ALTER TABLE 'account_emailaddress'
  MODIFY 'id' int(11) NOT NULL AUTO_INCREMENT;
--
-- AUTO_INCREMENT voor een tabel 'account_emailconfirmation'
--
ALTER TABLE 'account_emailconfirmation'
  MODIFY 'id' int(11) NOT NULL AUTO_INCREMENT;
--
-- AUTO_INCREMENT voor een tabel 'auth_group'
--
ALTER TABLE 'auth_group'
  MODIFY 'id' int(11) NOT NULL AUTO_INCREMENT;
--
-- AUTO_INCREMENT voor een tabel 'auth_group_permissions'
--
ALTER TABLE 'auth_group_permissions'
  MODIFY 'id' int(11) NOT NULL AUTO_INCREMENT;
--
-- AUTO_INCREMENT voor een tabel 'auth_permission'
--
ALTER TABLE 'auth_permission'
  MODIFY 'id' int(11) NOT NULL AUTO_INCREMENT,AUTO_INCREMENT=76;
--
-- AUTO_INCREMENT voor een tabel 'auth_user'
--
ALTER TABLE 'auth_user'
  MODIFY 'id' int(11) NOT NULL AUTO_INCREMENT;
--
-- AUTO_INCREMENT voor een tabel 'auth_user_groups'
--
ALTER TABLE 'auth_user_groups'
```

```sql
  MODIFY `id` int (11) NOT NULL AUTO_INCREMENT ;
--
-- AUTO_INCREMENT voor een tabel `auth_user_user_permissions`
--
ALTER TABLE `auth_user_user_permissions`
  MODIFY `id` int (11) NOT NULL AUTO_INCREMENT ;
--
-- AUTO_INCREMENT voor een tabel `daily_data`
--
ALTER TABLE `daily_data`
  MODIFY `id` int (11) NOT NULL AUTO_INCREMENT ;
--
-- AUTO_INCREMENT voor een tabel `friend_requests`
--
ALTER TABLE `friend_requests`
  MODIFY `id` int (11) NOT NULL AUTO_INCREMENT ;
--
-- AUTO_INCREMENT voor een tabel `homes`
--
ALTER TABLE `homes`
  MODIFY `id` int (11) NOT NULL AUTO_INCREMENT ;
--
-- AUTO_INCREMENT voor een tabel `messages`
--
ALTER TABLE `messages`
  MODIFY `id` int (11) NOT NULL AUTO_INCREMENT ;
--
-- AUTO_INCREMENT voor een tabel `monthly_data`
--
ALTER TABLE `monthly_data`
  MODIFY `id` int (11) NOT NULL AUTO_INCREMENT ;
--
-- AUTO_INCREMENT voor een tabel `recent_data`
--
ALTER TABLE `recent_data`
  MODIFY `id` int (11) NOT NULL AUTO_INCREMENT ;
--
-- AUTO_INCREMENT voor een tabel `sensors`
--
ALTER TABLE `sensors`
  MODIFY `id` int (11) NOT NULL AUTO_INCREMENT ;
--
-- AUTO_INCREMENT voor een tabel `sensors_tags`
--
ALTER TABLE `sensors_tags`
```

```
  MODIFY ‘id‘ int(11) NOT NULL AUTO_INCREMENT;
--
-- AUTO_INCREMENT voor een tabel ‘tags‘
--
ALTER TABLE ‘tags‘
  MODIFY ‘id‘ int(11) NOT NULL AUTO_INCREMENT;
--
-- AUTO_INCREMENT voor een tabel ‘users_homes‘
--
ALTER TABLE ‘users_homes‘
  MODIFY ‘id‘ int(11) NOT NULL AUTO_INCREMENT;
--
-- AUTO_INCREMENT voor een tabel ‘yearly_data‘
--
ALTER TABLE ‘yearly_data‘
  MODIFY ‘id‘ int(11) NOT NULL AUTO_INCREMENT;
--
-- Beperkingen voor ge xporteerde tabellen
--


--
-- Beperkingen voor tabel ‘account_emailaddress‘
--
ALTER TABLE ‘account_emailaddress‘
  ADD CONSTRAINT ‘
    account_emailaddress_user_id_2c513194_fk_auth_user_id‘ FOREIGN
    KEY (‘user_id‘) REFERENCES ‘auth_user‘ (‘id‘);


--
-- Beperkingen voor tabel ‘account_emailconfirmation‘
--
ALTER TABLE ‘account_emailconfirmation‘
  ADD CONSTRAINT ‘
    account_ema_email_address_id_5b7f8c58_fk_account_emailaddress_id
    ‘ FOREIGN KEY (‘email_address_id‘) REFERENCES ‘
    account_emailaddress‘ (‘id‘);


--
-- Beperkingen voor tabel ‘authtoken_token‘
--
ALTER TABLE ‘authtoken_token‘
  ADD CONSTRAINT ‘authtoken_token_user_id_35299eff_fk_auth_user_id‘
    FOREIGN KEY (‘user_id‘) REFERENCES ‘auth_user‘ (‘id‘);

--
```

```
-- Beperkingen voor tabel 'auth_group_permissions'
--
ALTER TABLE 'auth_group_permissions'
  ADD CONSTRAINT '
    auth_group_permissi_permission_id_84c5c92e_fk_auth_permission_id
    ' FOREIGN KEY ('permission_id') REFERENCES 'auth_permission' ('
    id'),
  ADD CONSTRAINT '
    auth_group_permissions_group_id_b120cbf9_fk_auth_group_id'
    FOREIGN KEY ('group_id') REFERENCES 'auth_group' ('id');


--
-- Beperkingen voor tabel 'auth_permission'
--
ALTER TABLE 'auth_permission'
  ADD CONSTRAINT '
    auth_permissi_content_type_id_2f476e4b_fk_django_content_type_id
    ' FOREIGN KEY ('content_type_id') REFERENCES '
    django_content_type' ('id');


--
-- Beperkingen voor tabel 'auth_user_groups'
--
ALTER TABLE 'auth_user_groups'
  ADD CONSTRAINT '
    auth_user_groups_group_id_97559544_fk_auth_group_id' FOREIGN
    KEY ('group_id') REFERENCES 'auth_group' ('id'),
  ADD CONSTRAINT 'auth_user_groups_user_id_6a12ed8b_fk_auth_user_id'
     FOREIGN KEY ('user_id') REFERENCES 'auth_user' ('id');


--
-- Beperkingen voor tabel 'auth_user_user_permissions'
--
ALTER TABLE 'auth_user_user_permissions'
  ADD CONSTRAINT '
    auth_user_user_perm_permission_id_1fbb5f2c_fk_auth_permission_id
    ' FOREIGN KEY ('permission_id') REFERENCES 'auth_permission' ('
    id'),
  ADD CONSTRAINT '
    auth_user_user_permissions_user_id_a95ead1b_fk_auth_user_id'
    FOREIGN KEY ('user_id') REFERENCES 'auth_user' ('id');


--
-- Beperkingen voor tabel 'daily_data'
--
```

```
ALTER TABLE `daily_data`
  ADD CONSTRAINT `daily_data_sensor_id_c70d4260_fk_sensors_id`
    FOREIGN KEY (`sensor_id`) REFERENCES `sensors` (`id`);

--
-- Beperkingen voor tabel `friend_requests`
--
ALTER TABLE `friend_requests`
  ADD CONSTRAINT `
    friend_requests_receiver_id_6e370850_fk_auth_user_id` FOREIGN
    KEY (`receiver_id`) REFERENCES `auth_user` (`id`),
  ADD CONSTRAINT `friend_requests_sender_id_e02b64d5_fk_auth_user_id
    ` FOREIGN KEY (`sender_id`) REFERENCES `auth_user` (`id`);

--
-- Beperkingen voor tabel `homes`
--
ALTER TABLE `homes`
  ADD CONSTRAINT `homes_owner_id_32e87e52_fk_auth_user_id` FOREIGN
    KEY (`owner_id`) REFERENCES `auth_user` (`id`);

--
-- Beperkingen voor tabel `messages`
--
ALTER TABLE `messages`
  ADD CONSTRAINT `messages_receiver_id_874b4e0a_fk_auth_user_id`
    FOREIGN KEY (`receiver_id`) REFERENCES `auth_user` (`id`),
  ADD CONSTRAINT `messages_sender_id_dc5a0bbd_fk_auth_user_id`
    FOREIGN KEY (`sender_id`) REFERENCES `auth_user` (`id`);

--
-- Beperkingen voor tabel `monthly_data`
--
ALTER TABLE `monthly_data`
  ADD CONSTRAINT `monthly_data_sensor_id_5f3ceaa9_fk_sensors_id`
    FOREIGN KEY (`sensor_id`) REFERENCES `sensors` (`id`);

--
-- Beperkingen voor tabel `recent_data`
--
ALTER TABLE `recent_data`
  ADD CONSTRAINT `recent_data_sensor_id_4cb30b35_fk_sensors_id`
    FOREIGN KEY (`sensor_id`) REFERENCES `sensors` (`id`);

--
```

```
-- Beperkingen voor tabel `sensors`
--
ALTER TABLE `sensors`
  ADD CONSTRAINT `sensors_home_id_1b6b9891_fk_homes_id` FOREIGN KEY
    (`home_id`) REFERENCES `homes` (`id`);


--
-- Beperkingen voor tabel `sensors_tags`
--
ALTER TABLE `sensors_tags`
  ADD CONSTRAINT `sensors_tags_sensor_id_ec6d5d5a_fk_sensors_id`
    FOREIGN KEY (`sensor_id`) REFERENCES `sensors` (`id`),
  ADD CONSTRAINT `sensors_tags_tag_id_7ab85af9_fk_tags_id` FOREIGN
    KEY (`tag_id`) REFERENCES `tags` (`id`);


--
-- Beperkingen voor tabel `users_homes`
--
ALTER TABLE `users_homes`
  ADD CONSTRAINT `users_homes_home_id_6d8097a2_fk_homes_id` FOREIGN
    KEY (`home_id`) REFERENCES `homes` (`id`),
  ADD CONSTRAINT `users_homes_user_id_c35d6efe_fk_auth_user_id`
    FOREIGN KEY (`user_id`) REFERENCES `auth_user` (`id`);


--
-- Beperkingen voor tabel `yearly_data`
--
ALTER TABLE `yearly_data`
  ADD CONSTRAINT `yearly_data_sensor_id_349bf5e9_fk_sensors_id`
    FOREIGN KEY (`sensor_id`) REFERENCES `sensors` (`id`);

/*!40101 SET CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT */;
/*!40101 SET CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS */;
/*!40101 SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION */;
```