Specify - Online service to count inventory for your to your grocery shop

How does it work?

1. Register your company
    - register with email
    - add shop address.
2. start doing your inventory

PWA (Progressive Web App)

We base our app on the following open source resources. See *Resources Section* for more details

Barcode JS library: https://github.com/serratus/quaggaJS or https://github.com/nimiq/qr-scanner

inspired from Barcode scanner connected to https://world.openfoodfacts.org/

https://github.com/moigonzalez/pwa-barcode-scanner

food items database: https://world.openfoodfacts.org/

Material design: https://getmdl.io/started/index.html

Database: https://restdb.io

outbound emails: https://restdb.io/docs/mail-api

Register company

this is the suggested user flow for registering a company

Step 1 - register

user enters email address

[Full name]

[phone number]

[orgnumber]

[email address]*

Specify

Register

Update your details

Full name

Phone number

Email

NEXT

Step 2 - Verify email

Verify email text

[PIN]

Verify ->

Specify

Verify email

Please input PIN
received by email

PIN

VERIFY

Step 3 - company data

insert company data if we don't already have it

[Company Name]

[Address]

[Postal Number]

[Postal Place]

[Country]

NEXT->

Specify

Register

Update your details

Company Name

Address

Postal Number

Postal Place

Country

NEXT

User front end

Login

Display email field

[input email]

Log in-> (goes to Verify email)

Register-> (goes to register)

Specify

Login

Fill in your email

Email

Log in

New user .- Register here

Scan inventory

Display camera scan window

[input barcode]

Scan item ->

Specify

Scan Inventory

Scan barcode

Input barcode

SCAN ITEM

Update inventory

Display scanned item image and EAN(barcode) and number in stock (0 if none)

[input number]

<- Back   Update Stock ->

Specify

Scan Inventory

I Granclassici

8007490040969

In stock: 200

ADD NUMBER OF ITEMS

BACK   UPDATE STOCK

My inventory

Display list of my items

Search bar

- image of item
- EAN(barcode)

- number of items in stock
- EDIT item ->

Specify

My Inventory

SEARCH

I Granclassici
8007490040969

200

Pistachio Butter
8436552203637

300

Resources

Progressive web app

We are basing our PWA (Progressive Web App) on this https://github.com/zuixjs/zuix-html-pwa

Our initial repo is here https://gitlab.com/jentekoderne/specify

Staging environment is https://specify.tege.as

Open Food database

Get item from open food database

documentation: https://world.openfoodfacts.org/data

```
https://world.openfoodfacts.org/api/v0/product/737628064502.json
```

Barcode scanning

We will use one of two libraries for scanning bar codes.

https://github.com/nimiq/qr-scanner

or

https://serratus.github.io/quaggaJS/

RestDB.io

user and inventory data will be in restdb.io

API for sending emails via restdb.io

this will be used for verification emails

https://restdb.io/docs/mail-api

CSS to use

CSS template for use in app

this is from getmd.io (material design)

See how components are used here https://getmdl.io/components/index.html

```
<link rel="stylesheet" href="https://fonts.googleapis.com/icon?
family=Material+Icons">
<link rel="stylesheet" href="https://code.getmdl.io/1.3.0/material.indigo-
pink.min.css">
<script defer src="https://code.getmdl.io/1.3.0/material.min.js"></script>
```

Templating for pages

We will use SWIG in browser mode for templating

 https://node-swig.github.io/swig-templates/docs/browser/

Localization

To be able to accommodate multiple languages we suggest to use i18njs

http://i18njs.com/

our default language will be English and we will create Norwegian translation.

Verify email

When email verification is sent out our system will send out an email with a link to verify email page that will expect user to punch in 4 digit PIN-code to log in. it should have information as stated below.

Specify

Welcome back

Use the verification code or button below to sign in

5462

Sign me in

You received this email because you requested to log in to Specify. If you didn't request to log in, you can safely ignore this e-mail."

Variuos API for IP and country lookup, organisational units

```
#country lookup
https://restcountries.eu/rest/v2/alpha/in

#ip 2 country
https://api.myip.com
```

Get lat+long from address (Norway)

```
# use adress + postalnum + place for best match
https://ws.geonorge.no/adresser/v1/sok?sok=Damfaret+31b+0682+oslo
```

Get organisation from number (Norway)

```
# example for TEGE AS (orgnr:939331271)
https://data.brreg.no/enhetsregisteret/api/enheter/939331271
```