**1. Correct the following requirements and describe issues that will be found.**

“Daily Threshold represents the $ limit for all orders that has been submitted within current day. Day is considered as calendar day that starts at the midnight by our time. In case total of purchase within one day is more, than Threshold value, then the Daily Thresholds is considered as exceeded.

For example: Daily Threshold is set $100.

First Order with 50$ total submitted at 00:00:00 on the 17th of September. The second with 50 order submitted 5:20:23PM the same date with €50 total, then Threshold is exceeded”.

I consider this requirement not correct, because:

1. the limit $ is not specified;

2. the beginning of a new day is ambiguously indicated, it is not specified on what time zone to navigate. It is better to specify a landmark;

3. In the example given, there is a different currency, this is confusing the auditor, it is advisable to stick to one currency;

4. It is not specified what happens if the limit is exceeded. I propose to add a warning window, in which there is a choice;

5. In this requirement only the total value has value, the number of orders does not matter. It is better to remove the number of orders from the example.

Given the higher written, I propose my own version of a good requirement

«Daily Threshold represents the $ limit which equals 100 $, for all orders that has been submitted within current day. Day is considered as calendar day that starts at the midnight by the selected time zone and ends at 00:00:00 the next day. In case total of purchase within one day is more than Daily Threshold value, then the Daily Thresholds is considered as exceeded. If the Daily Threshold limit is exceeded, a warning window appears with the text "You have exceeded your daily limit. Select an action" and two buttons "cancel" cancel the order, "transfer" transfers the extra part to the next order.

For example: Daily Threshold is set $100.

First Order with 50$ total submitted at 00:00:00 on the 17th of September. The second was submitted 05:20:23PM the same date with 70$ total, then Daily Threshold total 120$ is exceeded”.

**2. Create possible verifications to the following requirements:**

“An online application charges customers to ship purchased items, based on the following criteria:

• Standard shipping cost for 6 item;

• Shipping is 5$ for 6 – 10 items;

• Special shipping cost 2% for 10 – 15 items”

I consider this requirement not correct, because:

1. The standard shipping price is not specified;
2. The same number of orders falls into two different values of payment;
3. The price for shipping less than 6 item and more than 15 is not specified.

Given the higher written, I propose my own version of a good requirement

“An online application charges customers to ship purchased items, based on the following criteria:

* + Standard shipping cost is 6$ for 1- 5 item;
  + Shipping is 5.50$ for 6 – 10 items;
  + Shipping cost 5$ for 11 – 15 items;
  + Special shipping cost 4.50$ for more than 15 items”

**I propose to conduct such verification :**

|  |  |  |
| --- | --- | --- |
| **ID** | **Description** | **Status** |
| **1** | Check that the shipping cost for 3 units will be 6 $ |  |
| **2** | Check that the shipping cost for 8 units will be 5.50$ |  |
| **3** | Check that the shipping cost for 13 units will be 5 $ |  |
| **4** | Check that the shipping cost for 16 units will be 4.50 $ |  |

**3. Create all possible functional Test Cases to verification the following User Story. Propose the list of verification/test cases** **that will be included to the Regression testing.**

**TEST USER STORY**

**US 001** - Language/store parameters in URLs

**Description:**

**As a user**

**I want** to see language-store parameter in URL on all site

**So that** I can send a link to a specific store to my mate

**Functional Requirements:**

**General**

Taking into account oncoming localization functionality and difficulties in generating a link to a product in a specific country-store it needs to rework related functionality.

**URL Format**

[protocol]://[domain-name]/[language]/[country]/[ rest part of url ]

**Requirements**

- Language and country-store parameters are passed in URL.

- Language and country-store parameters are mandatory.

- Support backward capatibility for users already defined a country-store in the cookie value.

- Redirect rule for a Google bot should be adjusted in accordance to changes in URL format.

- Logged in user gets a detailed notification in case of an attempt to access a page out of the country defined in his profile.

**User Flow Diagram**

URL\_language\_store.pdf and Lang\_store\_1.pdf diagrams in the attachment describe cases a user access a page.

**Acceptance Criteria**

The main cases are described in the User Flow Diagram.

Only two formats should be accepted by system: "/en/us/" and "/en-gb/uk/". If URL contains only one section it is not considered as a language-store parameter.

**=============**

**Tech. Approach**

**=============**

**1. Redirect rule adjustment for the Google crawler**

- In case URL doesn't contain a /[language]/[country]/ parameter and user agent is "Googlebot", redirect Google crawler to the default country store "en-US" (at the moment request is redirected to an intermediate page where cookie is setup and back).

**2. Implement redirects with adding Language/Country parts**

Language will be set automatically by our CMS system out of the box.

Redirect to /lang/country/

Update HandleCountrySelectionProcessor (for the complete use case have a look at the diagram attached)

- Read country code from URL.

- If there is no country code, add language/country URL parts from cookies or redirect to the Country Selection page.

- If the URL country code is resolved, set the country code in cookies.

**3. Implement custom LinkProvider**

Links should be generated with /lang/country/ parts included.

Link provider should be updated to always add a URL part for the language. Adding a country part should be done automatically.

**4. Update Country Selector page**

- Add "Default Language" Droplink field to "Country" template. It should allow selecting a language from "/System/Languages" folder. "en" is the default language defined in the template.

- Update Country Selector page - URL generation logic should be changed. URLs should include language, country and originalPath, e.g. /en/US/shop/

**5. Implement processor for redirect to My Account**

- Update the existing HandleCountrySelectionProcessor

- If user is logged in and requests a page from a different country (cookie value differs from the URL value), redirect user to ProfileInformation page with the following query parameters:

a) originalPath - original requested URL

b) targetCountry - target country code

**6. Implement a notification on My Account and redirect back to originalPath**

Placeholder Settings

Placeholder Settings on My Account pages should be updated:

- Modify "Account Main Column" placeholder settings. Add all My Account components and the created component.

**7. Rendering**

- Create a new controller rendering in Account project. UI for the notification should be reused (green alert notification).

-Create a separate controller, view model (if needed) and a service. The business logic whether to show the message and generating the message itself should be located in the service.

- Show message if URL contains the originalPath parameter. If targetCountry parameter equals to the current country - redirect to originalPath.

- Notification text should be stored in a Dictionary item. The default text is "You have requested a page from {0} store but {1} is set in your profile. Please change the country on your profile in order to switch to {0} store.",

where {0} is the name of the targetCountry

and {1} is the name of the current country

- Add rendering to the placeholder settings and to the page.

**Additional notes:**

-> site: ordinary shop with mandatory e-commerce functionality;

-> 'language-store' parameter means /en/us/... (en - language, us - country);

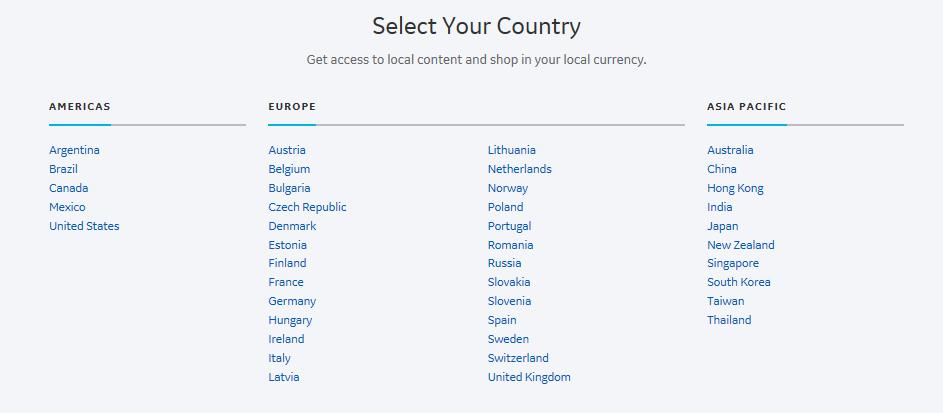
-> language-store parameter in URL should added for all site;

-> site includes: public pages (any content pages, shop, catalog, product pages, search page) + my account pages (only for logged User) + checkout pages (Basket page is available for all Users, but Checkout pages(Shipping/Billing, Additional details, Payment&Billing, Confirmation) are available only for logged User);

-> User Profile is the page in My Account that contains personal data including Country. User is able to change Country via his User Profile;

- Country Selection page is a start page of the site (without lang/store in cockie parameters), URL - [protocol]://[domain-name]/country-selection?originalItemPath=%2f

**View of Country Selection page:**



**I propose to conduct such verification for the Regression testing:**

|  |  |  |
| --- | --- | --- |
| **ID** | **Description** | **Status** |
| **1** | Check that the user can log into the system with valid data in the URL format (specify in the URL format a valid language and country for example "/ en / us /") |  |
| **2** | Check that the Google bot by default redirects to the language-store (only if the user is not logged in) |  |
| **3** | Check that the program will show "error 404" (only if the URL contains non-valid language, for example "/ ukr / ua"). |  |
| **4** | Check the appearance of the message "change the country" in case the logged-in user indicated a country not corresponding to the language-store |  |