embitel
A CARIAD GROUP COMPANY

# Technical Documentation

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**Team - 06**

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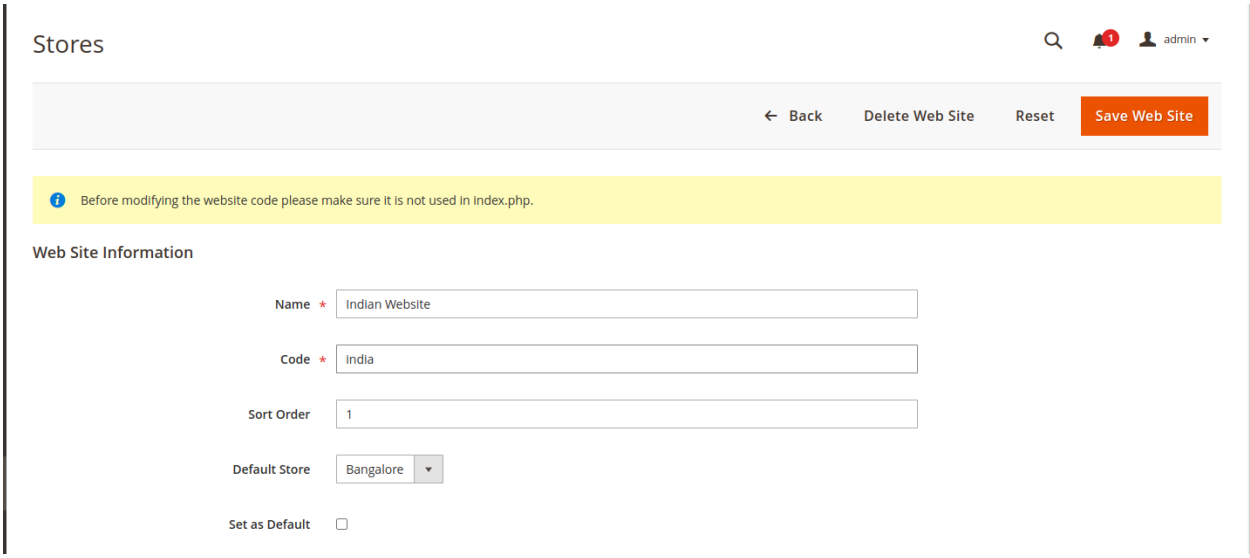
## 1. Overall Description

This document contains the technical requirement required to complete the mini project. Here we are implementing an e-commerce website using Magento 2. We need to implement multiple website which supports Arabic language in right-to-left (RTL) and English for Saudi, which also supports English and INR for India, and which also supports $ for USA. And also implementing the Indian GST slab for Indian website.

## 2. Technical Requirement:

**2. 1 Creating New Website:** Login into Magento 2 admin, and go to Stores - All Stores. Install a fresh Magento 2 instance that doesn't have a store yet, just one row on the Stores grid including Main Website, Main Store and The Main Store View which are default in Magento 2.

Now, we need to create websites, click on "Create Website" button and fill the information as shown below for magentoproject.india.com and Click "Save Web Site".



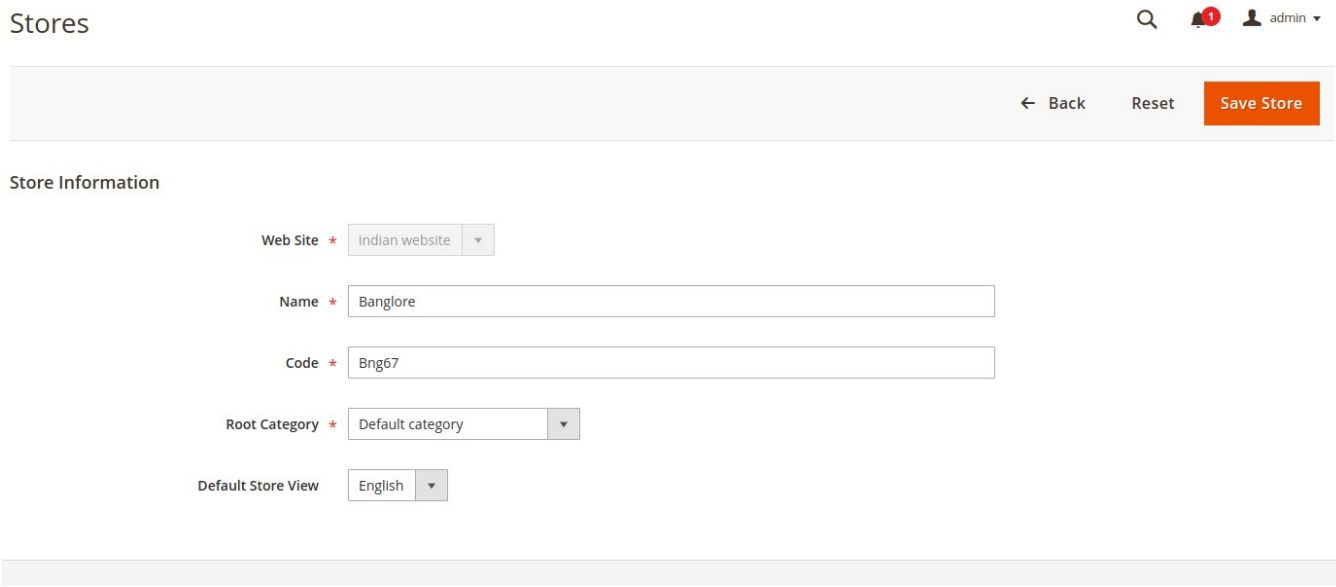

- Name: Website name (eg. the domain of the new website)
- Code: Enter a unique (lowercase) code for the website. The code will be used on the server to point to the domain.
- (Optional) Sort Order: determine the sequence in which the site is listed with other sites. Enter a zero to make the site appear at the top of the list.

**2. 2 Create a new store**

On the Stores page (Stores | Settings | All Stores), click on Create Store and fill the following information as per the requirement:

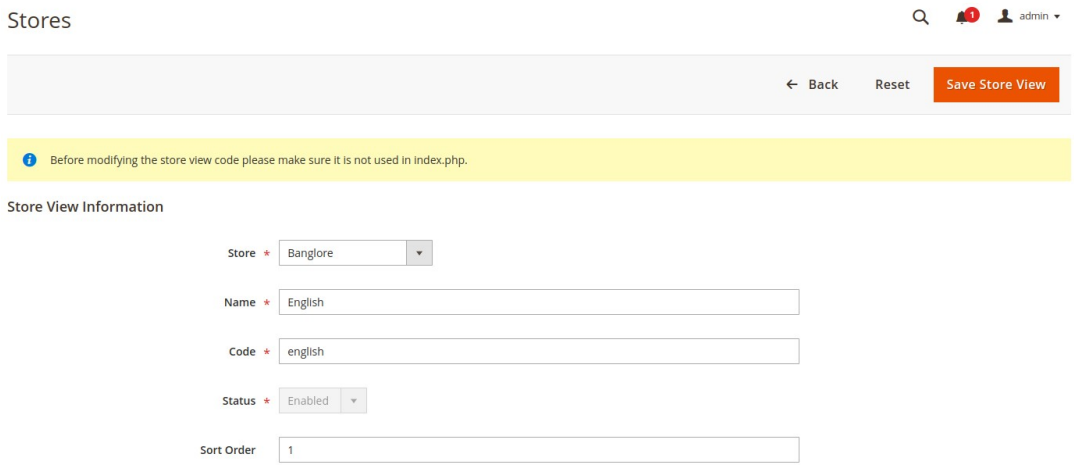
- Web Site: Assign the name of the website we just created above that is the parent of the new store.
- Name: Enter a name to identify the store. The name is for internal reference only.
- Code: Enter a unique code to identify the store.

- Root Category: Set the root category for this store. The root category defines the category structure for the main menu of the store. You can come back and change the Root category later.

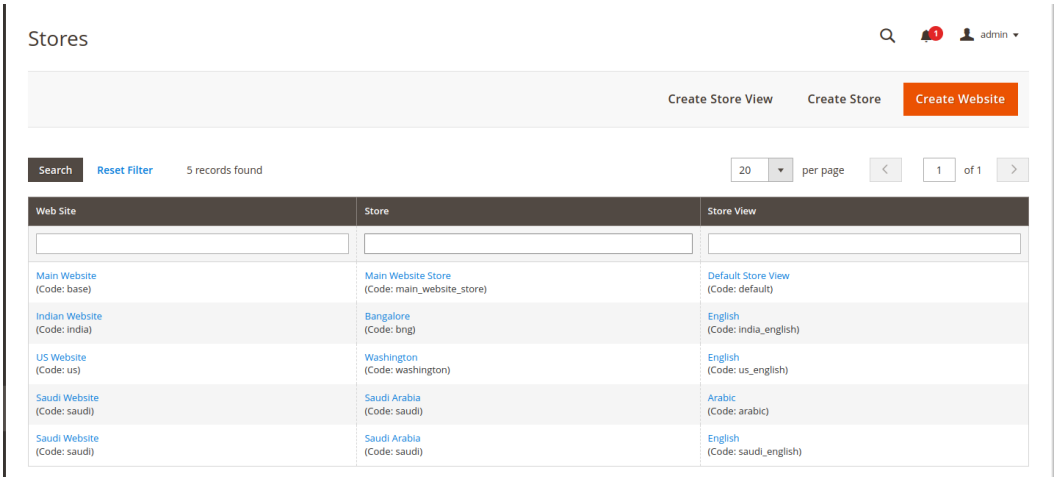



## 2. 3 Create store views

- On the Stores page (Stores | Settings | All Stores), click on Create Store View and understand the following details:
- Store: Set Store to the parent store of this view.
- Name: Enter a name to identify this store view. This name will appear in the language chooser in the store header.
- Code: Enter a unique (lowercase) name to identify this store view.
- Status: set to Enabled option
- (Optional) Sort Order: to determine the sequence in which this view is listed with other views
- You can repeat the same steps to create new websites, stores or store views.

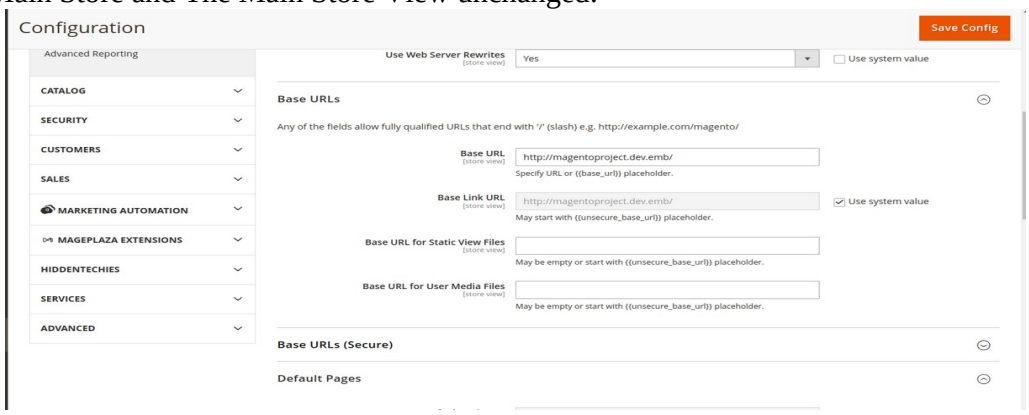



Similar way website, Stores and Storeviews for US and Saudi Arabia is created.

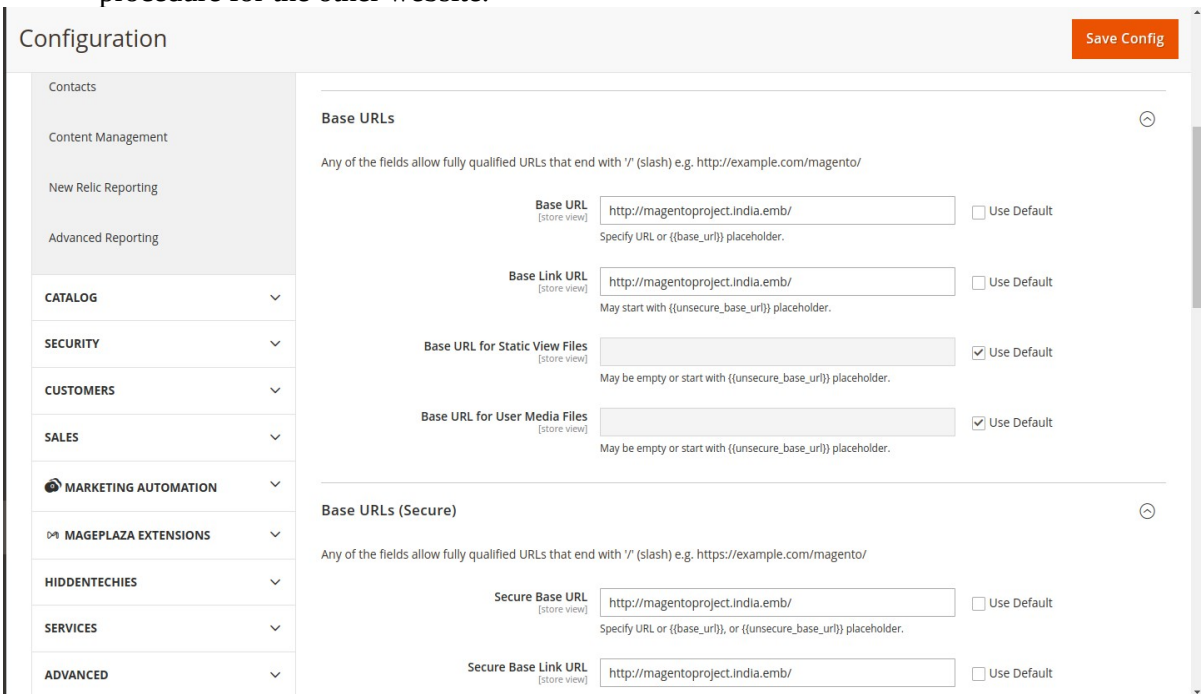



**2. 4 Configure the Store URL:** To map the websites with the domain name here're the steps:

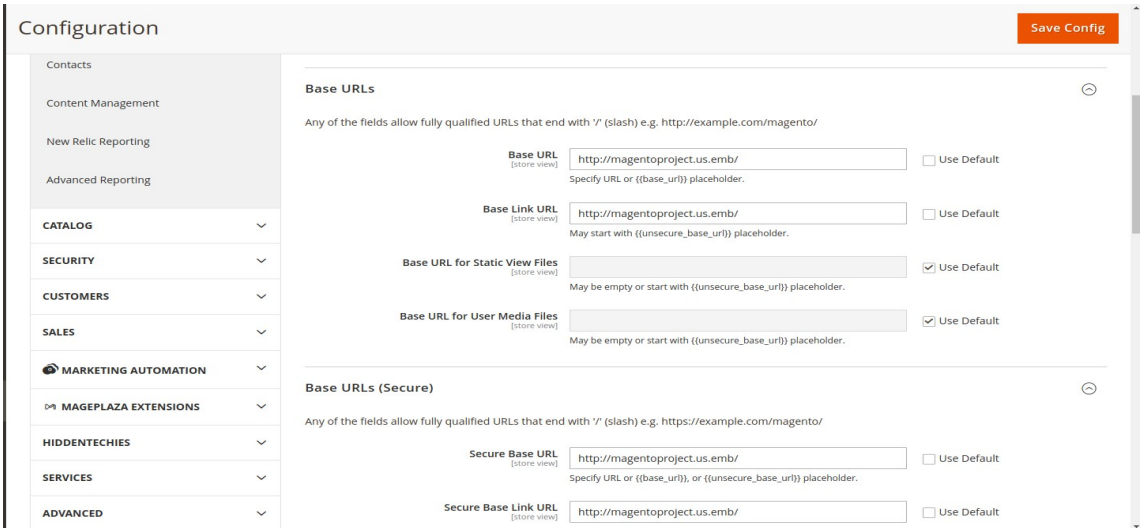
- Configure the base URL. Keeping the default Magento 2 Stores including Main Website, Main Store and The Main Store View unchanged.

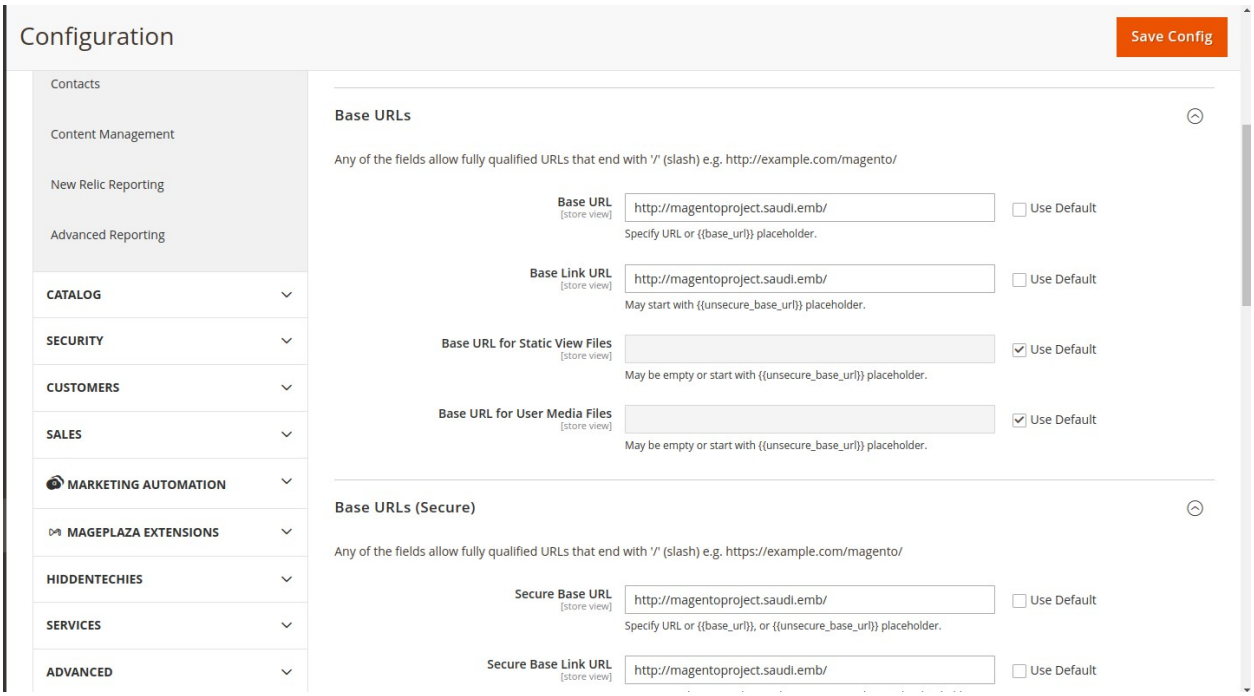


- Configure the Store URL for the three websites — magentoproject.india.com, magentoproject.saudi.com and magentoproject.us.com.
- Go to Stores | Configuration | (General) Web | Base URLs. Change the Store View scope at the top to the magentoproject.india.com.
- Now uncheck the checkbox called Use system value from the Base URL and Base Link URL fields and commit your domain name. Now click Save Config and continue the same procedure for the other website.




- Apply the same steps to configure the base URL for the magentoproject.us.com and magentoproject.saudi.com.

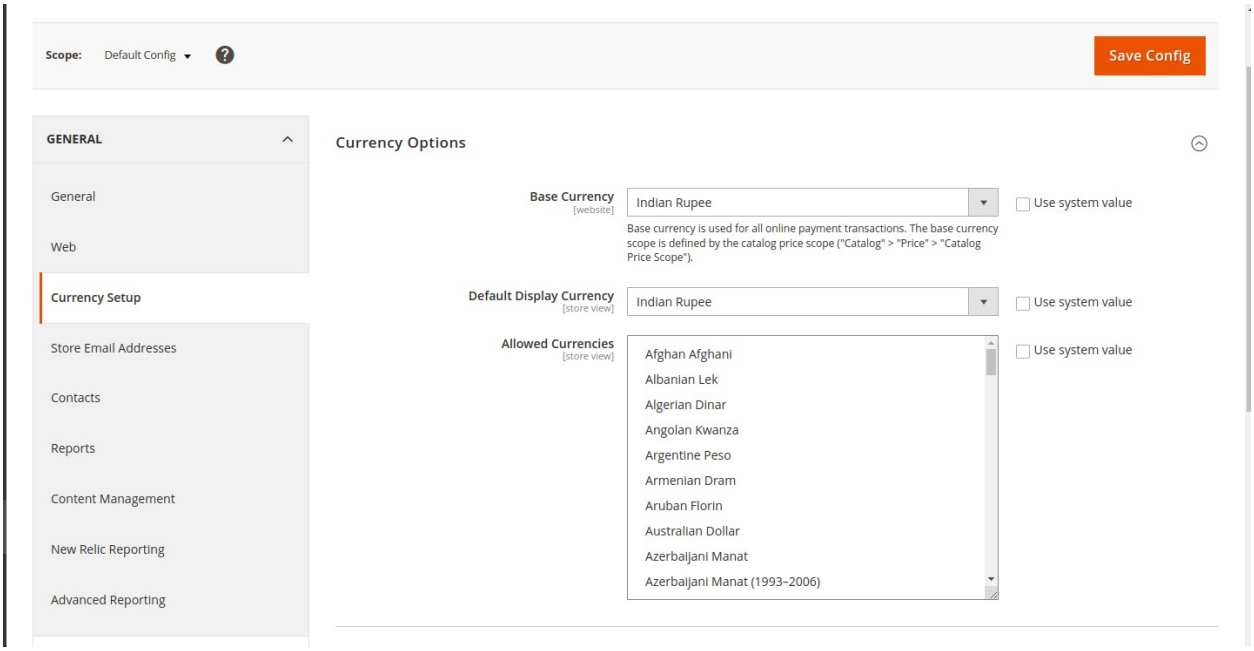





- Once done, save entire configuration

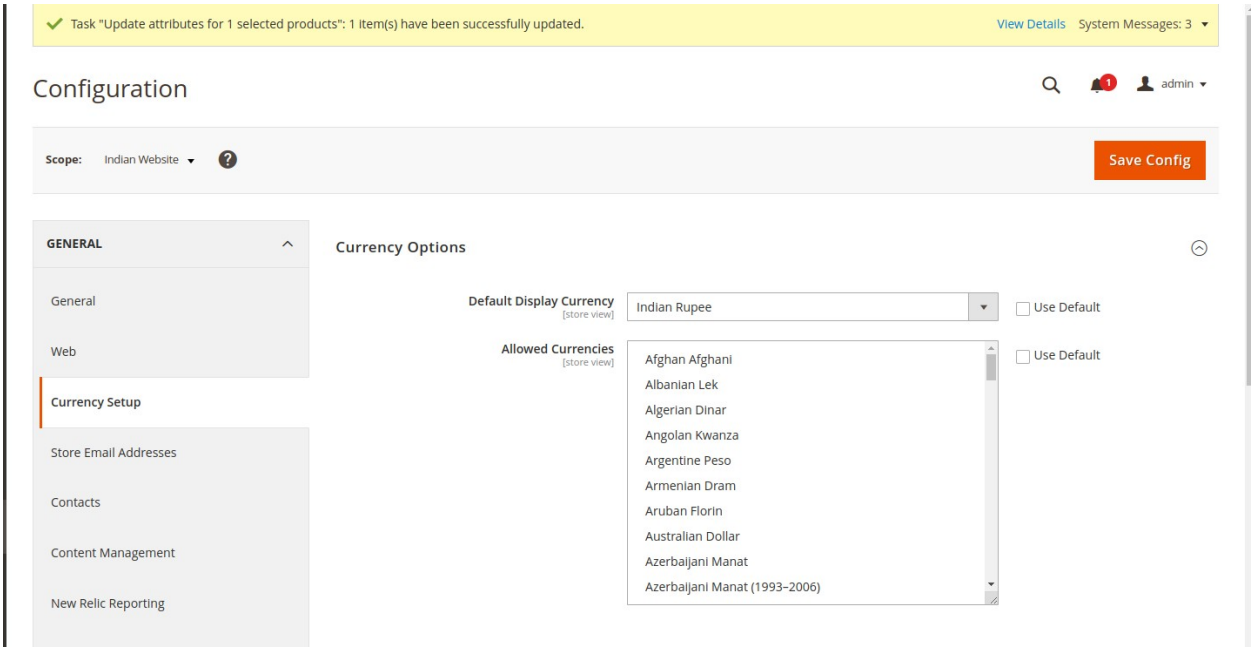
### 3. Setup Currency Rates in Configuration.

### 3. 1 Default Website

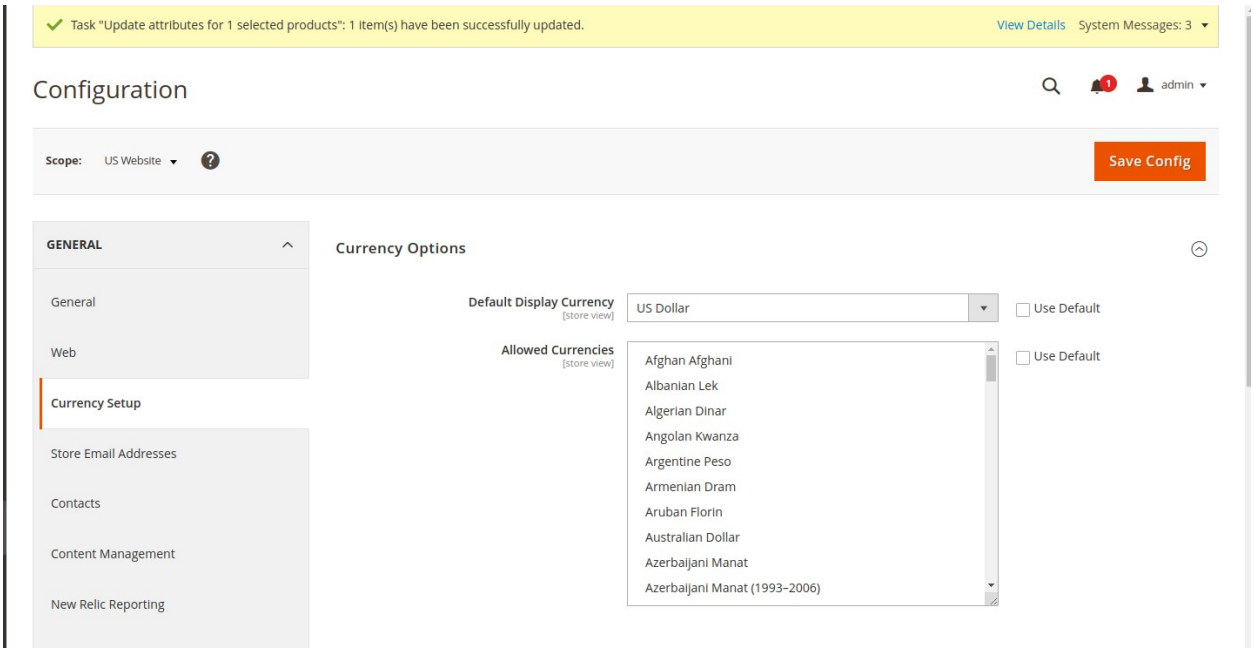



Above image shows the base currency.

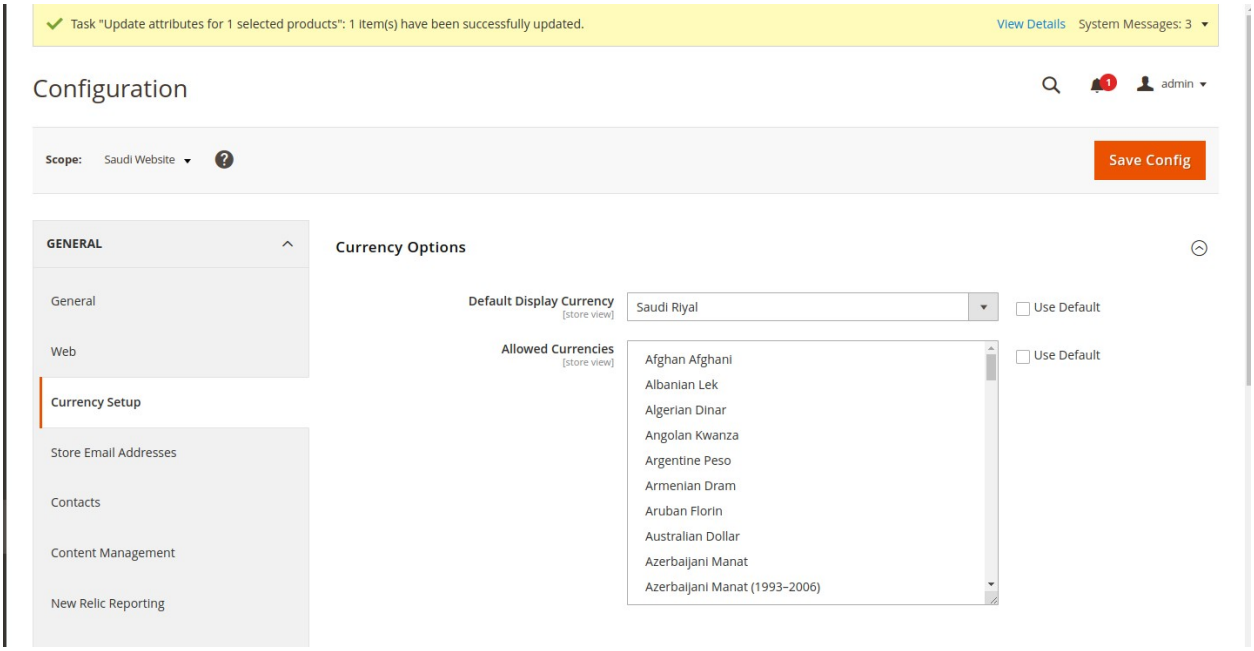
## 3. 2 Currency for Indian Website in INR(Indian Rupee)



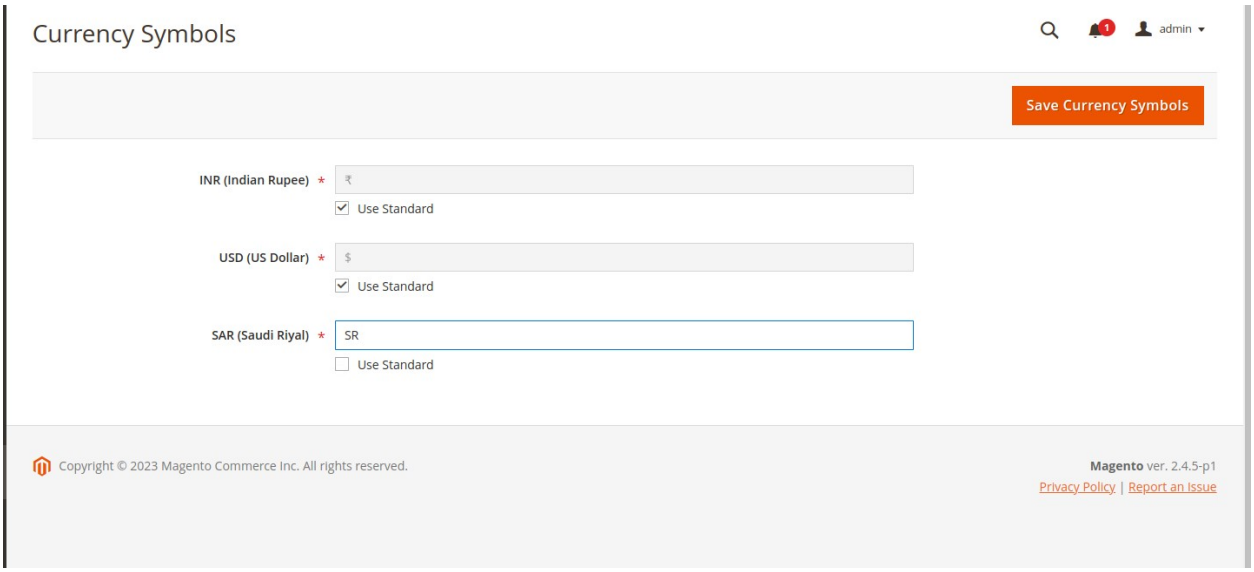

## 3. 3 Currency for US Website in  $ (Dollar)



### 3. 4 Currency for Saudi Website in SR(Saudi Riyal)

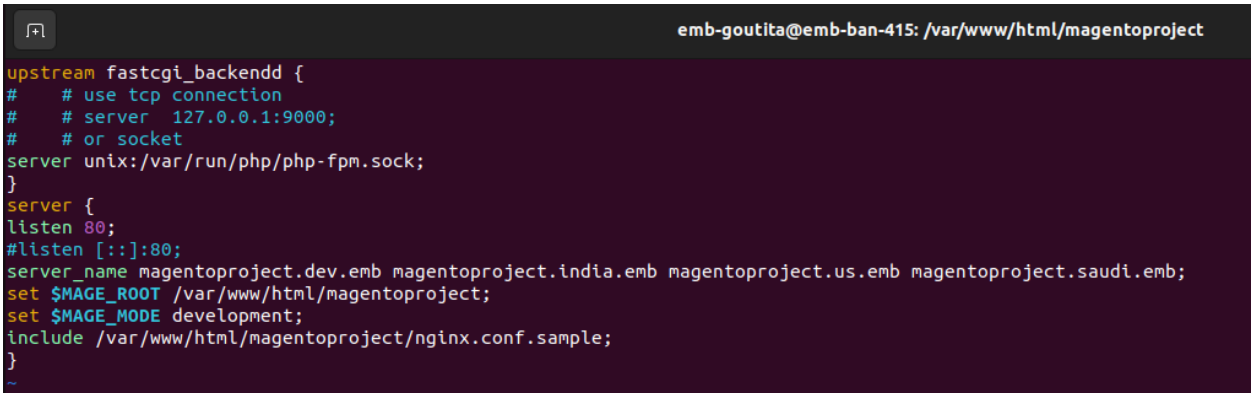



### 3. 5 Currency Symbols are as follows for the website.



## 4. Configure a Virtual Host (vhost) NGINX.

### 4.1 Adding Server in NGINX



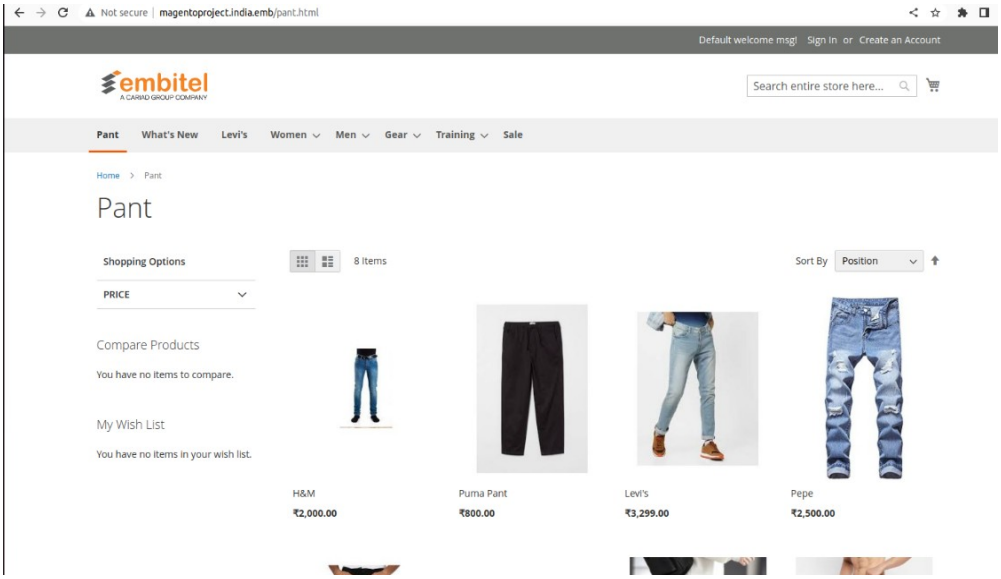

### 4.2 Creating virtual hosts in NGINX

### 4. 3 Editing the index.php file

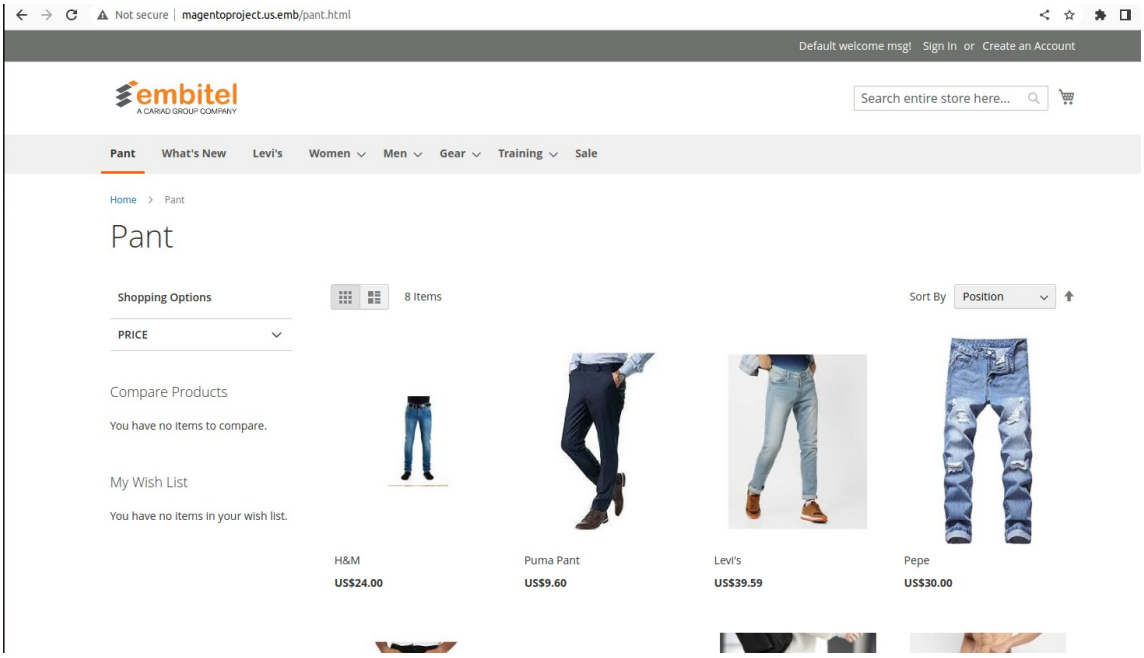
- Open up the file index.php in pub directory of Magento 2 root and add below code before “$bootstrap = Bootstrap::create(BP, $_SERVER);” line.
- Case ‘’: refers to your custom testing domain
- $runType: The sample setup above uses the $runType ‘website’ variable. You may change website to ‘store’, at your discretion.
- $runCode: refers to the unique code for the website that you specify when creating your Website. This code will be used on the server to point to the domain.
- If you set $runType ‘website’, the $runCode should be your Website code
- If you set $runType ‘store’, the $runCode should be your Store View code.

```php
$params = $_SERVER;

$domainName = $_SERVER['HTTP_HOST'];

switch ($domainName) {
case 'magentoproject.india.emb':
$runType = 'website';
$runCode = 'india';
break;

case 'magentoproject.saudi.emb':
$runType = 'website';
$runCode = 'saudi';
break;

case 'magentoproject.us.emb':
$runType = 'website';
$runCode = 'us';
break;


default:
$runType = 'website';
$runCode = 'base';
}

$params[\Magento\Store\Model\StoreManager::PARAM_RUN_CODE] = $runCode;
$params[\Magento\Store\Model\StoreManager::PARAM_RUN_TYPE] = $runType;

$bootstrap = \Magento\Framework\App\Bootstrap::create(BP, $params);

```

Now lets check the Indian website url in the browser: http://magentoproject.india.emb

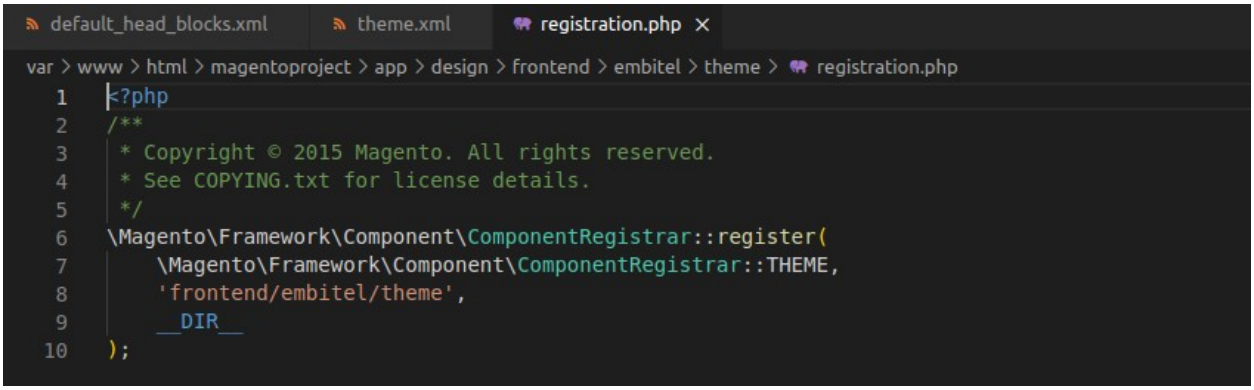


US Website url in the browser: http://magentoproject.us.emb




**Installing and Implementing Arabic Language for Saudi Website**

- Created custom theme for Saudi website and applied. Vendor name is Embitel and Theme name is theme.
  Path: App/design/frontend/embitel/theme/registration.php



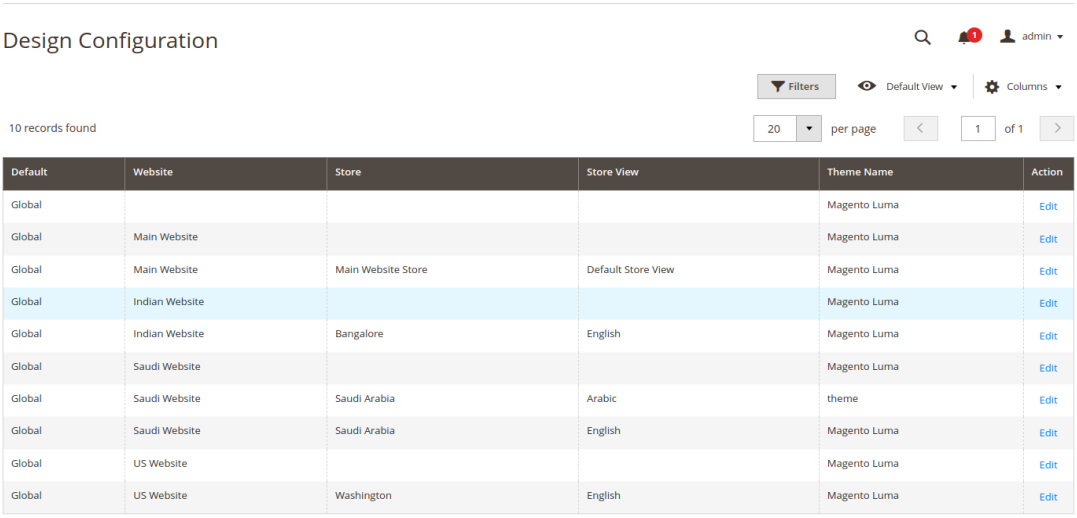

Path: App/design/frontend/embitel/theme/theme.xml

default_head_blocks.xml | theme.xml

var > www > html > magentoproject > app > design > frontend > embitel > theme > theme.xml

```
<theme xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
       xsi:noNamespaceSchemaLocation="urn:magento:framework:Config/etc/theme.xsd">
    <title>theme</title>
    <parent>Magento/luma</parent>
    <media>
        <preview_image>web/emb.jpeg</preview_image>
    </media>
</theme>
```

- Installed Arabic language package from internet source to theme of Saudi Website.
- Then implemented in Saudi website from Content > Configuration > Applied Theme.



Design Configuration

admin

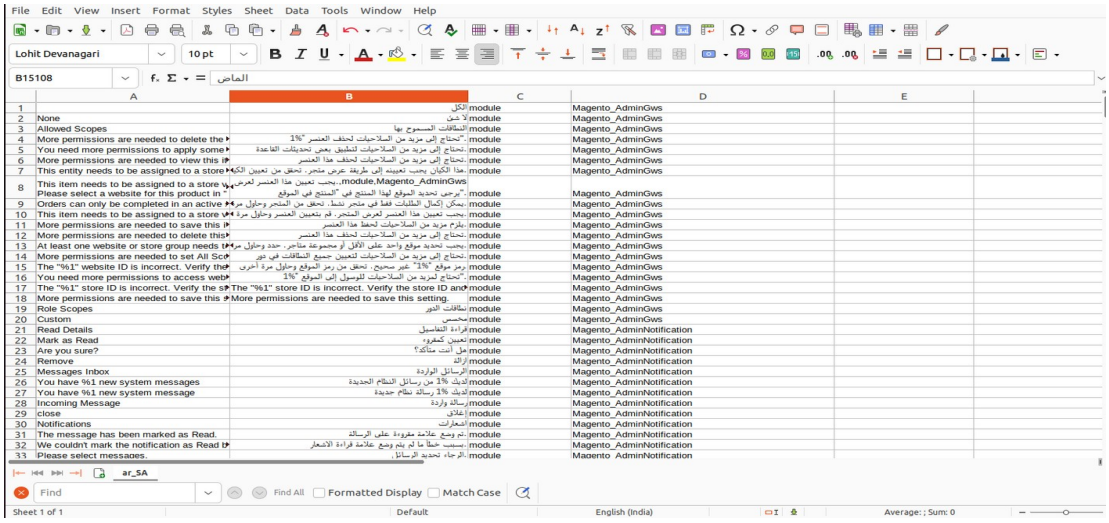
Filters | Default View | Columns

10 records found

20 per page | 1 of 1

| Default | Website | Store | Store View | Theme Name | Action |
|---|---|---|---|---|---|
| Global | | | | Magento Luma | Edit |
| Global | Main Website | | | Magento Luma | Edit |
| Global | Main Website | Main Website Store | Default Store View | Magento Luma | Edit |
| Global | Indian Website | | | Magento Luma | Edit |
| Global | Indian Website | Bangalore | English | Magento Luma | Edit |
| Global | Saudi Website | | | Magento Luma | Edit |
| Global | Saudi Website | Saudi Arabia | Arabic | theme | Edit |
| Global | Saudi Website | Saudi Arabia | English | Magento Luma | Edit |
| Global | US Website | | | Magento Luma | Edit |
| Global | US Website | Washington | English | Magento Luma | Edit |

- Translated English text to Arabic language in CSV File.



File Edit View Insert Format Styles Sheet Data Tools Window Help

| | A | B | C | D | E |
|---|---|---|---|---|---|
| 1 | | الكل | module | Magento_AdminGws | |
| 2 | None | لا شئ | module | Magento_AdminGws | |
| 3 | Allowed Scopes | النطاقات المسموح بها | module | Magento_AdminGws | |
| 4 | More permissions are needed to delete the | "تحتاج إلى مزيد من الصلاحيات لحذف العنصر "%1 | module | Magento_AdminGws | |
| 5 | You need more permissions to apply some | تحتاج إلى مزيد من الصلاحيات لتطبيق بعض تحديثات القاعدة. | module | Magento_AdminGws | |
| 6 | More permissions are needed to view this i | تحتاج إلى مزيد من الصلاحيات لحذف هذا العنصر. | module | Magento_AdminGws | |
| 7 | This entity needs to be assigned to a store | هذا الكيان يجب تعيينه إلى طريقة عرض متجر. تحقق من تعيين الكيا | module | Magento_AdminGws | |
| 8 | This item needs to be assigned to a store v<br>Please select a website for this product in " | يجب تعيين هذا العنصر لعرض module.Magento_AdminGws.<br>"يرجى تحديد الموقع لهذا المنتج في "المنتج في الموقع | module | Magento_AdminGws | |
| 9 | Orders can only be completed in an active | يمكن إكمال الطلبات فقط في متجر نشط. تحقق من المتجر وحاول مر | module | Magento_AdminGws | |
| 10 | This item needs to be assigned to a store v | يجب تعيين هذا العنصر لعرض المتجر. قم بتعيين العنصر وحاول مرة | module | Magento_AdminGws | |
| 11 | More permissions are needed to save this i | يلزم مزيد من الصلاحيات لحفظ هذا العنصر. | module | Magento_AdminGws | |
| 12 | More permissions are needed to delete this | تحتاج إلى مزيد من الصلاحيات لحذف هذا العنصر. | module | Magento_AdminGws | |
| 13 | At least one website or store group needs t | يجب تحديد موقع واحد على الأقل أو مجموعة متاجر. حدد وحاول مر | module | Magento_AdminGws | |
| 14 | More permissions are needed to set All Sco | تحتاج إلى مزيد من الصلاحيات لتعيين جميع النطاقات في دور | module | Magento_AdminGws | |
| 15 | The "%1" website ID is incorrect. Verify the | رمز موقع "%1" غير صحيح. تحقق من رمز الموقع وحاول مرة أخرى. | module | Magento_AdminGws | |
| 16 | You need more permissions to access web | "تحتاج لمزيد من الصلاحيات للوصول إلى الموقع "%1 | module | Magento_AdminGws | |
| 17 | The "%1" store ID is incorrect. Verify the s | The "%1" store ID is incorrect. Verify the store ID and | module | Magento_AdminGws | |
| 18 | More permissions are needed to save this s | More permissions are needed to save this setting. | module | Magento_AdminGws | |
| 19 | Role Scopes | نطاقات الدور | module | Magento_AdminGws | |
| 20 | Custom | مخصص | module | Magento_AdminGws | |
| 21 | Read Details | قراءة التفاصيل | module | Magento_AdminNotification | |
| 22 | Mark as Read | تعيين كمقروء | module | Magento_AdminNotification | |
| 23 | Are you sure? | هل أنت متأكد؟ | module | Magento_AdminNotification | |
| 24 | Remove | إزالة | module | Magento_AdminNotification | |
| 25 | Messages Inbox | الرسائل الواردة | module | Magento_AdminNotification | |
| 26 | You have %1 new system messages | لديك 1% من رسائل النظام الجديدة | module | Magento_AdminNotification | |
| 27 | You have %1 new system message | لديك 1% رسالة نظام جديدة | module | Magento_AdminNotification | |
| 28 | Incoming Message | رسالة واردة | module | Magento_AdminNotification | |
| 29 | close | إغلاق | module | Magento_AdminNotification | |
| 30 | Notifications | المعارف | module | Magento_AdminNotification | |
| 31 | The message has been marked as Read. | تم وضع علامة مقروءة على الرسالة. | module | Magento_AdminNotification | |
| 32 | We couldn't mark the notification as Read b | بسبب خطأ ما لم يتم وضع علامة قراءة الاشعار. | module | Magento_AdminNotification | |
| 33 | Please select messages. | الرجاء تحديد الرسائل. | module | Magento_AdminNotification | |

ar_SA

Find | Find All | Formatted Display | Match Case

Sheet 1 of 1 | Default | English (India) | Average: ; Sum: 0

**RTL:**

- RTL stands for "right-to-left" and refers to the direction of writing and reading in languages that are written from right to left, such as Arabic, Hebrew, and Persian.
- Applied RTL to the Saudi Website by writing CSS files in the Theme folder.

default_head_blocks.xml

var > www > html > magentoproject > app > design > frontend > embitel > theme > Magento_Theme > layout > default_head_blocks.xml

```
<page xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      layout="2columns-left"
      xsi:noNamespaceSchemaLocation="urn:magento:framework:View/Layout/etc/page_configuration.xsd">
    <head>
        <css src="css/custom.css" />
    </head>
</page>
```

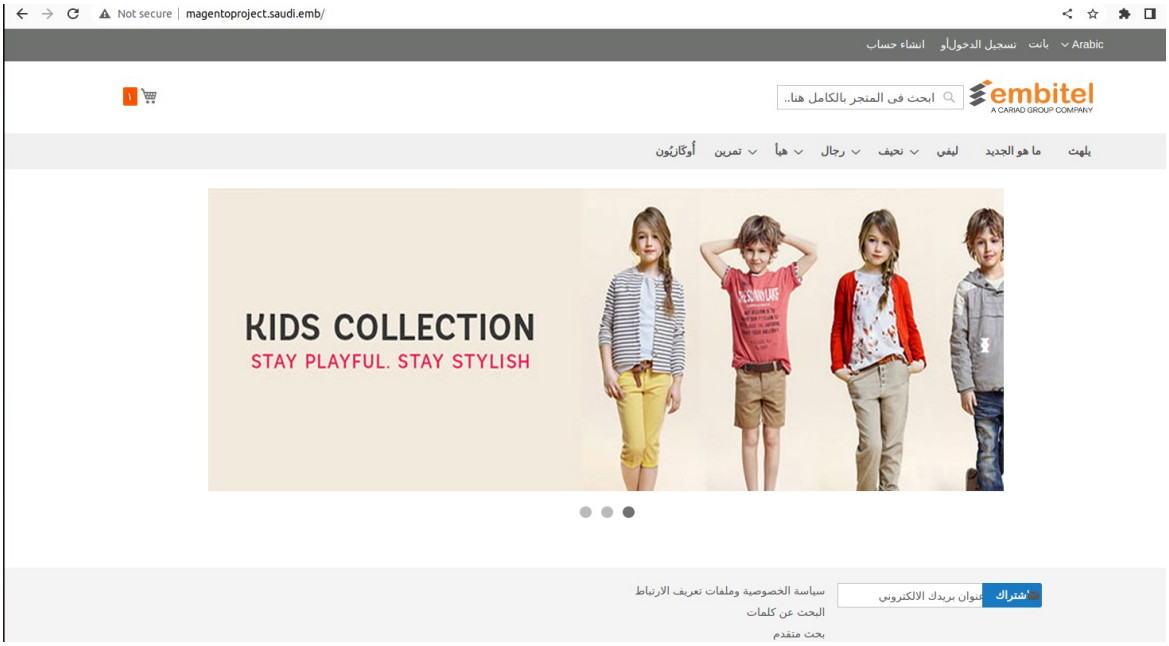
Path: web/css/Custom.css

custom.css

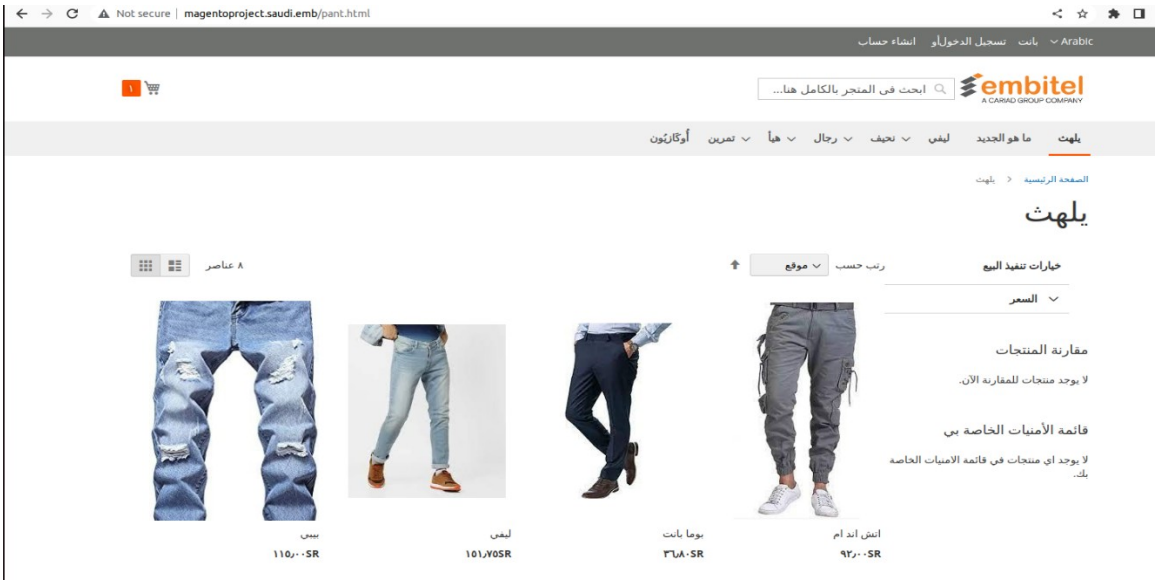
var > www > html > magentoproject > app > design > frontend > embitel > theme > web > css > custom.css > body

```
body
{

    direction: rtl;


}


.control{
    float:left;
}

.product-section-title{
    direction: rtl;
}









.block-search {
    float: left;
}


.cart-summary {
    float:left;
};

@media only screen and (min-width: 768px){
    .product-info-main {
        float: left;
}
}*/
.columns {
    padding: left;
```

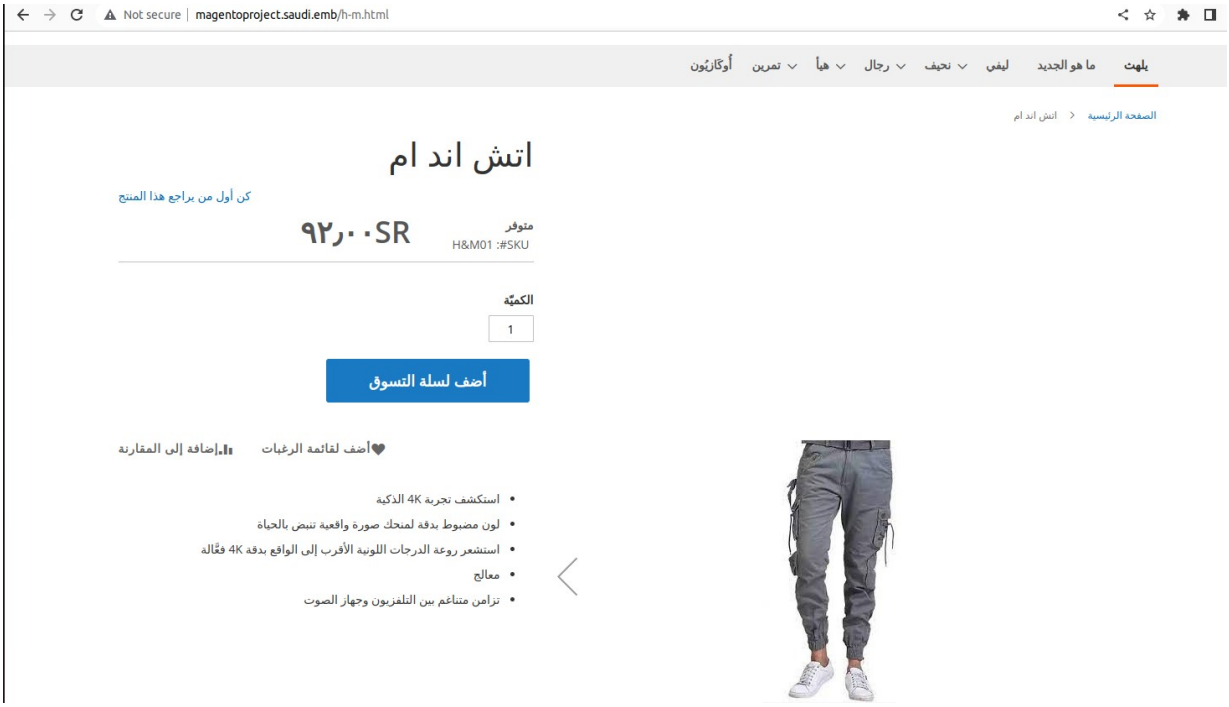
- RTL Site is Shown Below:




- Product Listing Page:

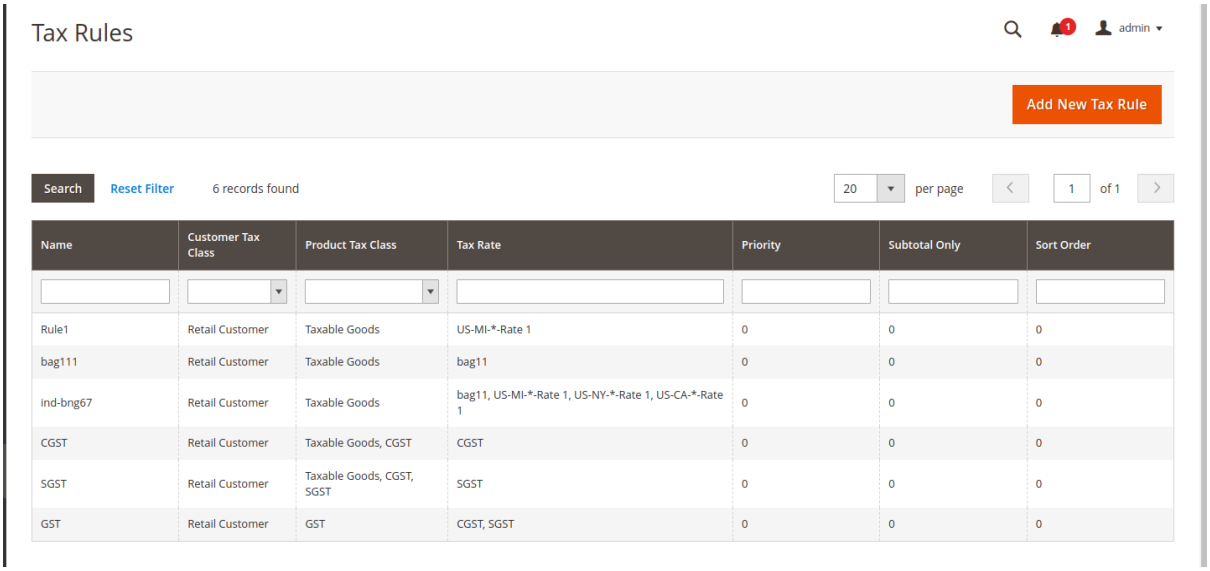


- Product Details Page is Shown below




## 5 GST for Indian Website

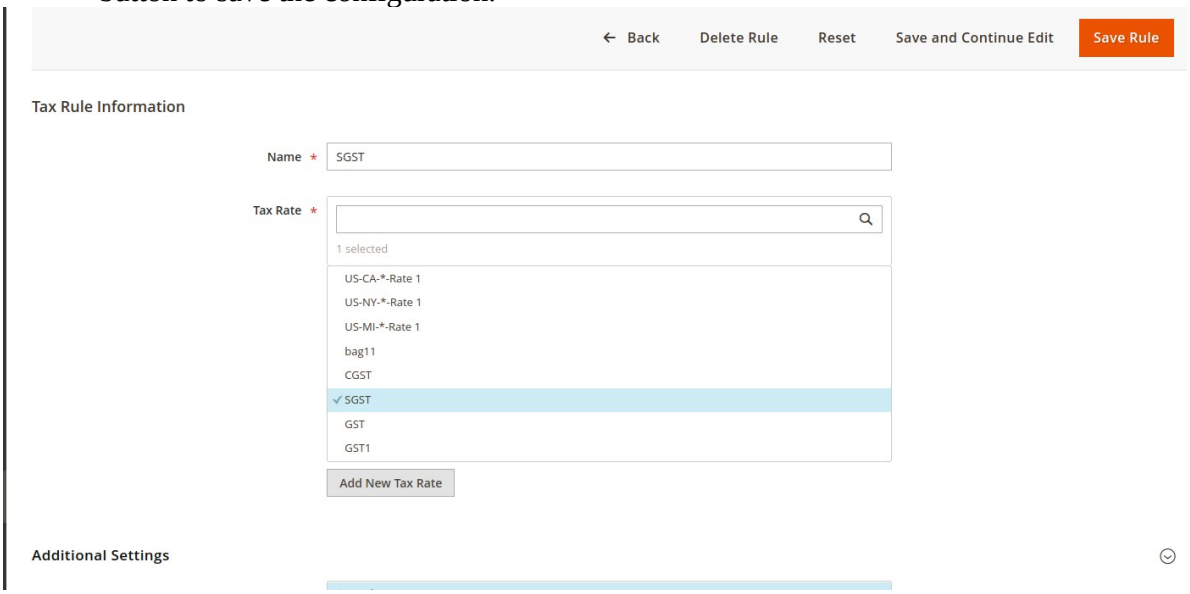
### 5. 1 Enable GST: Go to Stores > Configuration > Sales > Tax Rules > Add new tax rules.



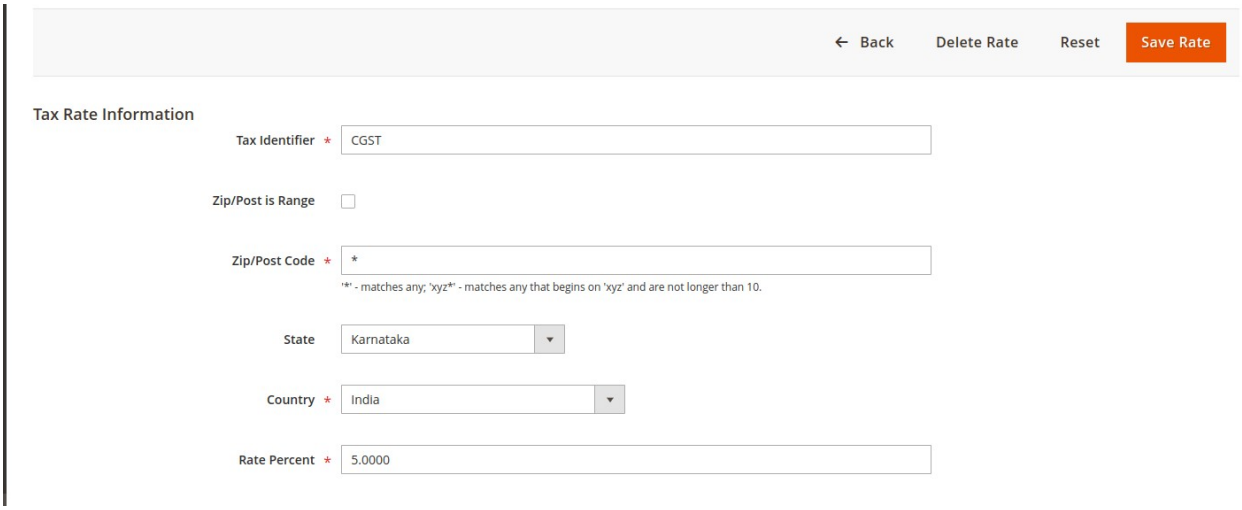

| Name | Customer Tax Class | Product Tax Class | Tax Rate | Priority | Subtotal Only | Sort Order |
|---|---|---|---|---|---|---|
| Rule1 | Retail Customer | Taxable Goods | US-MI-*-Rate 1 | 0 | 0 | 0 |
| bag111 | Retail Customer | Taxable Goods | bag11 | 0 | 0 | 0 |
| ind-bng67 | Retail Customer | Taxable Goods | bag11, US-MI-*-Rate 1, US-NY-*-Rate 1, US-CA-*-Rate 1 | 0 | 0 | 0 |
| CGST | Retail Customer | Taxable Goods, CGST | CGST | 0 | 0 | 0 |
| SGST | Retail Customer | Taxable Goods, CGST, SGST | SGST | 0 | 0 | 0 |
| GST | Retail Customer | GST | CGST, SGST | 0 | 0 | 0 |

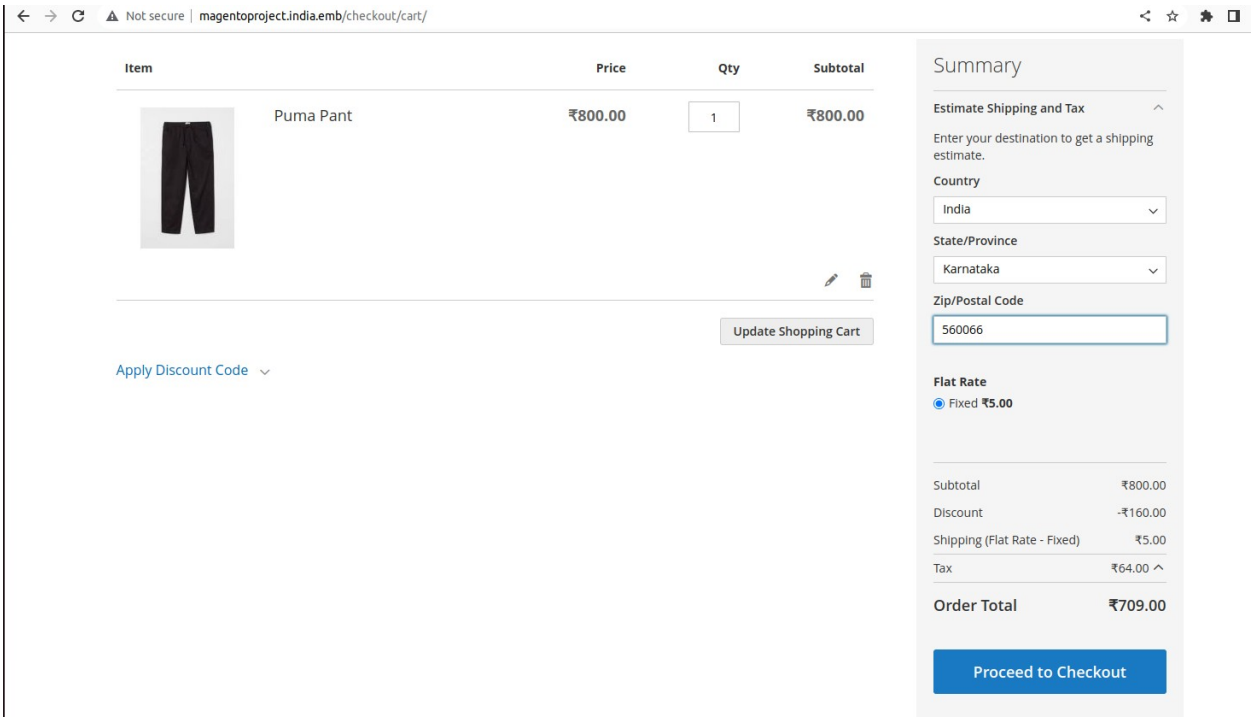
- Set GST settings: Under the "GST" section, can configure the following settings:
- Display Product Prices in Catalog: Choose whether to display product prices in the catalog including or excluding GST.

- Set GST Classes: Under the "GST Classes" section, you can create or edit GST classes for products and customers. You can create separate classes for different types of products or customers, such as taxable goods, non-taxable goods.
- Set GST Rates: Under the "GST Rates" section, you can set the GST rate for each tax class. Set the rate for different regions or apply a single rate for all regions.
- Save Configuration: Once you have configured all the settings, click the "Save Config" button to save the configuration.




Adding Tax Rate:




Indian Website is show below with applied Custom Tax.

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