## Background

While doing packing in the warehouse, Assure system requires to get the invoice PDF, so that it can be printed and sent along with the package. It is necessary that invoice PDF gets generated at the e-commerce portal side, so that

* The invoice PDF can be sent to the customer by the portal via email
* The invoice format can be customized as per the client’s choice.
* The tax computation can be done as per the client’s choice. E.g. whether to include shipping charges or not during tax computation etc.

This code has been created to create invoice PDF in the web portal. This code is in PHP. It first computes GST tax breakup and then prints the invoice PDF to local file

For logic of tax computation, please read

<https://www.axisbank.com/progress-with-us/money-matters/what-is-cgst-sgst-utgst-igst>

## Assure Integration

Assure system can be integrated to an e-commerce portal using REST calls

1. ASSURE 🡨 REST 🡪 E-Commerce Portal
2. At the time of packing, assure makes call to the portal to get the invoice PDF. The portal must respond by sending a **Base64Encoded** PDF string

|  |  |  |
| --- | --- | --- |
| Assure | Request 🡪 orderId | Portal |
| Response 🡨 Base64Encoded Invoice PDF  200 OK status |

## Portal Side Flow

1. Take the **orderId** as the input.
2. Fetch Order and Line Item Details from the DB
3. Invoke **computeGST()** method in **gst.php**
4. Invoke **createInvoicePdf()** method in **invoice-pdf.gst**
5. This will create a PDF file
6. Return this PDF file as a **Base64Encoded** string

## Additional Info

### State codes

The **computeGST()** and **createInvoicePdf()** methods take an instance of the **Order** class. This class has two fields:

* fromState (e.g. MP)
* toState (e.g. DL)

Both these fields are in uppercase State Codes. E.g. KA (for Karnataka), AN (for Andaman).

Following states are assumed to be Union Territories (coded in **gst.php**)

"AN", "DN", "CH", "LD", "DD"

### HSN codes

The **Order** class takes a list of **OrderItem** as an array. Every line consists of the following fields, which must be passed:

* public $sku;
* public $mrp;
* public $hsn;
* public $name;
* public $sellingPrice=0;
* public $quantity=0;

Note that an HSN code must be provided with every **OrderItem** instance.

## Tables Required

For enabling above points following additional tables would be required

State Mapping

|  |  |
| --- | --- |
| State | Code |
| Madhya Pradesh | MP |
| Andaman and Nicobar | AN |

A full list of states and mapping can be found here:

<https://kb.bullseyelocations.com/support/solutions/articles/5000695302-india-state-codes>

## Further Code & Installation Related Information

Please read **README.txt** supplied with the code