

# MVP of system which is responsible for handling the creation of orders

## Message Description

### Request

| Element        | Description                           | Remarks                          |
|----------------|---------------------------------------|----------------------------------|
| product_list   | list of products (including quantity) | required                         |
| country_code   | FI/PL/NL/IE                           | required                         |
| invoice_format | JSON/HTML                             | required                         |
| return_type    | EMAIL/JSON                            | required                         |
| email          |                                       | required if return_type is EMAIL |

Eg: Request

```
http://{localhost:8000}/orderhandling/getproduct.php
{
  "product_list": {
    "Milk":2,
    "Salt":3
  },
  "country_code": "FI",
  "invoice_format" : "JSON",
  "return_type" : "JSON",
  "email" : "sandesh.hyoju@gmail.comm"
}
```

## MySQL Table and Dummy data

```
CREATE TABLE IF NOT EXISTS country (
  country_id INT NOT NULL AUTO_INCREMENT,
  name VARCHAR(255) NOT NULL UNIQUE,
  short_name VARCHAR(4) NOT NULL UNIQUE,
  currency_code VARCHAR(10) NOT NULL,
  currency_symbol VARCHAR(10) NOT NULL,
  PRIMARY KEY (country_id)
) ENGINE=INNODB;

CREATE TABLE IF NOT EXISTS tax_category (
  tax_category_id INT NOT NULL AUTO_INCREMENT,
```

```
    name VARCHAR(255) NOT NULL UNIQUE,  
    PRIMARY KEY (tax_category_id)  
) ENGINE=INNODB;
```

```
CREATE TABLE IF NOT EXISTS tax_rate (  
    tax_rate_id INT NOT NULL AUTO_INCREMENT,  
    country_id INT NOT NULL,  
    tax_category_id INT NOT NULL,  
    tax_rate INT NOT NULL,  
    PRIMARY KEY (tax_rate_id),  
    FOREIGN KEY (country_id) REFERENCES country (country_id),  
    FOREIGN KEY (tax_category_id) REFERENCES tax_category (tax_category_id)  
) ENGINE=INNODB;
```

```
CREATE TABLE IF NOT EXISTS product_category (  
    product_category_id INT NOT NULL AUTO_INCREMENT,  
    name VARCHAR(255) NOT NULL,  
    PRIMARY KEY (product_category_id)  
) ENGINE=INNODB;
```

```
CREATE TABLE IF NOT EXISTS product (  
    product_id INT NOT NULL AUTO_INCREMENT,  
    name VARCHAR(255) NOT NULL,  
    code VARCHAR(50) NOT NULL,  
    product_category_id INT NOT NULL,  
    tax_category_id INT NOT NULL,  
    PRIMARY KEY (product_id),  
    CONSTRAINT product_name_code_unique UNIQUE(name, code),  
    FOREIGN KEY (product_category_id) REFERENCES product_category  
(product_category_id),  
    FOREIGN KEY (tax_category_id) REFERENCES tax_category (tax_category_id)  
) ENGINE=INNODB;
```

```
CREATE TABLE IF NOT EXISTS product_price (  
    product_price_id INT NOT NULL AUTO_INCREMENT,  
    country_id INT NOT NULL,  
    product_id INT NOT NULL,  
    price FLOAT NOT NULL,  
    PRIMARY KEY (product_price_id),  
    FOREIGN KEY (country_id) REFERENCES country (country_id),  
    FOREIGN KEY (product_id) REFERENCES product (product_id)  
) ENGINE=INNODB;
```

```
INSERT INTO country VALUES
(1, 'Finland', 'FI', 'EUR', '&euro;'),
(2, 'Poland', 'PL', 'PLN', 'zł'),
(3, 'Ireland', 'IE', 'EUR', '&euro;'),
(4, 'Neatherland', 'NL', 'EUR', '&euro;');
```

```
INSERT INTO tax_category VALUES
(1, 'Category 1'),
(2, 'Category 2'),
(3, 'Category 3'),
(4, 'Category 4');
```

```
INSERT INTO tax_rate VALUES
```

```
(1, 1, 1, 14),
(2, 1, 2, 20),
(3, 1, 3, 22),
(4, 1, 4, 24),
```

```
(5, 2, 1, 5),
(6, 2, 2, 5),
(7, 2, 3, 9),
(8, 2, 4, 13),
```

```
(9, 3, 1, 1),
(10, 3, 2, 6),
(11, 3, 3, 8),
(12, 3, 4, 12),
```

```
(13, 4, 1, 0),
(14, 4, 2, 3),
(15, 4, 3, 8),
(16, 4, 4, 10);
```

```
INSERT INTO product_category VALUES
```

```
(1, 'Grocery'),
(2, 'Electronics'),
(3, 'Clothes');
```

```
INSERT INTO product VALUES
```

```
(1, 'Milk', 'C2-123456', 1, 1),
(2, 'Salt', 'C1-234567', 1, 1),
(3, 'Sugar', 'C1-345678', 1, 1),
```

```
(4, 'Oil', 'C1-456789', 1, 1),
(5, 'RAM', 'C4-987654', 2, 4),
(6, 'Mobile-1', 'C4-876543', 2, 4),
(7, 'Mobile-2', 'C4-765432', 2, 4),
(8, 'Computer-1', 'C4-654321', 2, 4),
(9, 'Computer-2', 'C4-543210', 2, 4),
(10, 'T-shirt', 'C3-159264', 3, 3),
(11, 'Shirt', 'C3-489516', 3, 3),
(12, 'Pant', 'C3-753426', 3, 3),
(13, 'Cheese', 'C2-654984', 1, 2),
(14, 'Meat product', 'C3-963547', 1, 3),
(15, 'Fresh vegetable', 'C2-689325', 1, 2),
(16, 'Soap', 'C1-698563', 1, 1),
(17, 'Hard disk', 'C4-998875', 2, 4),
(18, 'Pen drive', 'C4-658895', 2, 4),
(19, 'Jacket', 'C3-665245', 3, 3),
(20, 'Sock', 'C2-365985', 3, 2);
```

```
INSERT INTO product_price VALUES
```

```
(1, 1, 1, 1),
(2, 1, 2, 2),
(3, 1, 3, 3),
(4, 1, 4, 4),
(5, 1, 5, 5),
(6, 1, 6, 6),
(7, 1, 7, 7),
(8, 1, 8, 8),
(9, 1, 9, 9),
(10, 1, 10, 10),
(11, 1, 11, 11),
(12, 1, 12, 12),
(13, 1, 13, 13),
(14, 1, 14, 14),
(15, 1, 15, 15),
(16, 1, 16, 16),
(17, 1, 17, 17),
(18, 1, 18, 18),
(19, 1, 19, 19),
(20, 1, 20, 20),

(21, 2, 1, 11),
(22, 2, 2, 12),
(23, 2, 3, 13),
(24, 2, 4, 14),
(25, 2, 5, 15),
(26, 2, 6, 16),
(27, 2, 7, 17),
(28, 2, 8, 18),
(29, 2, 9, 19),
(30, 2, 10, 20),
(31, 2, 11, 21),
```

(32, 2, 12, 22),  
(33, 2, 13, 23),  
(34, 2, 14, 24),  
(35, 2, 15, 25),  
(36, 2, 16, 26),  
(37, 2, 17, 27),  
(38, 2, 18, 28),  
(39, 2, 19, 29),  
(40, 2, 20, 30),

(41, 3, 1, 21),  
(42, 3, 2, 22),  
(43, 3, 3, 23),  
(44, 3, 4, 24),  
(45, 3, 5, 25),  
(46, 3, 6, 26),  
(47, 3, 7, 27),  
(48, 3, 8, 28),  
(49, 3, 9, 29),  
(50, 3, 10, 30),  
(51, 3, 11, 31),  
(52, 3, 12, 32),  
(53, 3, 13, 33),  
(54, 3, 14, 34),  
(55, 3, 15, 35),  
(56, 3, 16, 36),  
(57, 3, 17, 37),  
(58, 3, 18, 38),  
(59, 3, 19, 39),  
(60, 3, 20, 40),

(61, 4, 1, 31),  
(62, 4, 2, 32),  
(63, 4, 3, 33),  
(64, 4, 4, 34),  
(65, 4, 5, 35),  
(66, 4, 6, 36),  
(67, 4, 7, 37),  
(68, 4, 8, 38),  
(69, 4, 9, 39),  
(70, 4, 10, 40),  
(71, 4, 11, 41),  
(72, 4, 12, 42),  
(73, 4, 13, 43),  
(74, 4, 14, 44),  
(75, 4, 15, 45),  
(76, 4, 16, 46),  
(77, 4, 17, 47),  
(78, 4, 18, 48),  
(79, 4, 19, 49),  
(80, 4, 20, 50);

