# INFORM8 SPECIFICATION

### LOVE JK Wholesale System

|  |
| --- |
| © Copyright Inform8 2011  This document is confidential; if you have received this document without permission please discard immediately. |

*Revisions*

|  |  |  |
| --- | --- | --- |
| 0.1 | RH - |  |
|  |  |  |
|  |  |  |
|  |  |  |

INFORM8 SPECIFICATION 1

SaS Retail SYSTEM 1

INFORM8 / LOVE JK 1

1 Overview 3

2 Data Model (RetailDB) 3

3 API Business Requirements 3

3.1 Authentication (AU) 3

3.2 Categories (CA) 4

3.3 Sub Categories (SC) 4

3.4 Product Colour (PC) 5

3.5 Product Size (PS) 5

3.6 Product Range (PR) 5

3.7 Product Link (PL) 5

3.8 Product Subcategory (PSC) 5

3.9 Product (P) 6

3.10 Product Option (PO) 7

3.11 Product Image (PI) 7

3.12 Address (AD) 7

3.13 Country (CY) 7

3.14 Address Type (AT) 7

3.15 Contact (CO) 7

3.16 Customer (C) 7

3.17 Customer Address (CA) 7

3.18 Customer Login History (CLH) 7

3.19 Customer Order (CO) 8

3.20 Guest Order (GO) 8

3.21 Sales Order (S) 8

3.22 Order Item (OI) 8

3.23 Order Notes (ON) 8

3.24 Order Payment (OP) 8

3.25 Configuration (CFG) 8

3.26 Wholesaler (W) 8

4 REST API 9

4.1 Authentication 10

4.1.1 Session Services 10

4.1.2 Retail DB Tables 10

4.1.3 Logon Service 10

4.1.4 Logoff Service 10

4.1.5 Token 11

4.2 Product Type Services 12

4.2.1 Retail DB Tables 12

4.2.2 List Product Types 12

4.3 Category Services 13

4.3.1 Retail DB Tables 13

4.3.2 List categories 13

4.4 Product Services 15

4.4.1 Retail DB Tables 15

4.4.2 Get Products By Category 15

4.5 Orders 16

4.6 Drop Ship 16

5 Rest API – Complex Objects 16

5.1 Product Type 16

5.2 Category 16

5.3 Product - Summary 16

6 Wholesale Store Business Requirements 17

7 Wholesale Store User Roles 17

8 Wholesale Store Tech Spec 17

9 Wholesale Store Design 17

10 Consumer Store 17

11 Appendix 1 – API Error Codes 17

# Overview

A web based system to support Love JK retailers.

Supports

* Placing & Monitoring Orders
* Drop ship orders
* Retailer Digital Resources
* User Management
* Product API
* Orders API
* Drop ship API

## Version 0.1

Wholesale web app.

* Viewing Products
* Wholesaler order
* Dropship ordering

# Data Model

Currently based on Picaadilly

# API Business Requirements

## Authentication (AU)

|  |  |  |
| --- | --- | --- |
| Id | Requirement | Details |
| AU1 | Logon | The API should be able to logon a user. |
| AU2 | Logoff | The API should be able to logoff a user. |
| AU3 | My Details | Get the logged in users details. |

## Categories (CA)

|  |  |  |  |
| --- | --- | --- | --- |
| Id | Requirement | Details | |
| CA3 | List Wholesale Categories | | The API should be able to list all wholesale categories in the system |
| CA6 | List with sub-categories | | List all categories including sub-categories in summary format. |

## Product (P)

|  |  |  |
| --- | --- | --- |
| Id | Requirement | Details |
| P6 | List all wholesale products by subcategory | Retrieves a list of all products which are enabled for wholesale and are linked to the specified sub-category |
| P8 | List in summary format | Must be able to list products in a summary format.  To support basic product display, mainly product sub-category display. |
| P9 | List in detailed format | Must be able to list products in a detailed format.  To support product page display. |

## Country (CY)

|  |  |  |
| --- | --- | --- |
| Id | Requirement | Details |
| CY1 | List Countries | Gets the list of countries |

## Sales Order (SO)

|  |  |  |
| --- | --- | --- |
| Id | Requirement | Details |
| SO100 | Get an Order | The main order object |
| SO101 | Update an Order | Updates the orders details |

## Wholesale Order (WO)

|  |  |  |
| --- | --- | --- |
| Id | Requirement | Details |
| WO1 | Get Orders for wholesaler | Returns a list of wholesale orders in summary or detailed format. |
| WO2 | Get an order in summary format | Returns the order in a summary format. |
| WO3 | Get an order in detailed format | Returns an order in detaied format. |
| W100 | Create a new Order |  |
| W101 | Get an Order |  |
| W110 | Get Sales Order from Order | Gets the underlying sales order |

## Order Item (OI)

|  |  |  |
| --- | --- | --- |
| Id | Requirement | Details |
| OI1 | Get Order Items for an order | Details of the order item |
| OI3 | Get details in detailed format | Details of the order item in detailed format |
| OI100 | Create an order item |  |
| OI101 | Get an order item |  |

## Order Payment (OP)

|  |  |  |
| --- | --- | --- |
| Id | Requirement | Details |
| OP1 | Get Payments for an order |  |
| OP2 | Create an order payment |  |

## Configuration (CFG)

|  |  |  |
| --- | --- | --- |
| Id | Requirement | Details |
|  |  |  |
|  |  |  |

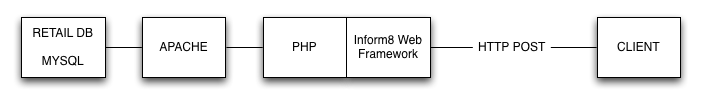
## Wholesaler (W)

|  |  |  |
| --- | --- | --- |
| Id | Requirement | Details |
| W2 | Get details in summary format | Basic wholesaler details |
| W3 | Get details in detailed format | Full wholesaler account details |
| W101 | Get a wholesalers details |  |
| W102 | Update a wholesalers details |  |

## Wholesaler Address (WA)

|  |  |  |
| --- | --- | --- |
| Id | Requirement | Details |
| WA1 | Get all addresses for a wholesaler |  |
| WA101 | Get a wholesalers address details |  |
| WA102 | Update a wholesalers address details |  |
| WA103 | Delete a wholesalers address |  |

# REST API



## Authentication

A user can authenticate in one of two ways. Session based authentication. Each authentication model is linked to an API account and this account has valid IP addresses the API can be accessed over.

### Session Services

The user logs in with a username and password and a cookie is used to track the user.

### Retail DB Tables

|  |  |
| --- | --- |
| RetailDB Tables | |
|  |  |

### Logon Service

|  |  |  |
| --- | --- | --- |
| Logon | | |
| api/auth/session/logon | | |
| Field | **Required** | **Description** |
| Username | yes | The API username |
| Password | yes | The API password |
| RETURNS |  |  |
| Field | **Type** | **Description** |
| result | Boolean | Logged on |
| errorCode | String | Error code |

### Logoff Service

|  |  |  |
| --- | --- | --- |
| Logoff | | |
| api/auth/session/logoff | | |
| Field | **Required** | **Description** |
| No parameters required |  |  |
| RETURNS |  |  |
| Field | **Type** | **Description** |
| result | Boolean | Logged Off |

### Token

The API user supplies a long token string to authenticate with.

In this mode the user does not authenticate directly however, they pass the token with each call

## Category Services

Category and subcategory services.

### Retail DB Tables

|  |  |
| --- | --- |
| RetailDB Tables | |
| Category  Subcategory |  |

### List categories with Subcategories

|  |  |  |  |
| --- | --- | --- | --- |
| List Categories With Subcategories  CA6 | | | |
| api/category/listEnabledWithSubCategories  (List all Categories, with subcategories) | | | |
| Field | **Required** | | **Description** |
|  |  | |  |
| RETURNS | |  |  |
| Field | | **Type** | **Description** |
| Array ( | | Array |  |
| Category | | Category Object | A category object with embedded sub categories |
| ) | |  |  |
|  | |  |  |

### 

## Product Services

Retrieve Product Information in summary or detailed format.

### Retail DB Tables

|  |  |
| --- | --- |
| RetailDB Tables | |
| Product  ProductOption  ProductColour  ProductSize  ProductType  ProductLink  ProductWebImage  ProductSubcategory  ProductSizeGroup  ProductRange  Subcategory  Category |  |

### Get Products By Sub Category

|  |  |  |  |
| --- | --- | --- | --- |
| List by Sub Category | | | |
| api/product/subCategoryList | | | |
| Field | **Required** | | **Description** |
| subCategoryId | Yes | | The sub category to search by |
| detailed | No  Default: false | | Set to true to retrieve a product in detailed mode. |
| RETURNS | |  |  |
| Field | | **Type** | **Description** |
| Array ( | | Array |  |
| Product | | Product Object  (Detailed or Summary) | A product object in it’s summary form or detailed form. |
| ) | |  |  |

## Orders

## Drop Ship

# Rest API – Complex Objects

## Product - Detail Format

|  |  |  |
| --- | --- | --- |
| Product |  |  |
| Field | **Type** | **Description** |
| id | Integer | Product identifier |
| name | String | Product name |
| shortUrl | String | Product shortUrl |
| options | ProductOption Array | The Product options |
| images | Image Object Array | The product Images |
| productType | ProductType Object | The type product |
| retailActive | Boolean | Active for retail |
| wholesaleActive | Boolean | Active for wholesale |
| description | Text | Product description |
| materials | Text | Describes the product materials |

## Product - Summary Format

|  |  |  |
| --- | --- | --- |
| Product |  |  |
| Field | **Type** | **Description** |
| Id | Integer | Product identifier |
| name | String | Product name |
| shortUrl | String | Product shortUrl |
| priceLow | Decimal | Lowest price |
| priceHigh | Decimal | Highest price |
| image | Image url. |  |
| retailActive | Boolean | Active for retail |
| wholesaleActive | Boolean | Active for wholesale |

## Product Image

|  |  |  |
| --- | --- | --- |
| Product Image |  |  |
| Field | **Type** | **Description** |
| id | Integer | Product image identifier |
| url | String | url to theimage |
| displayOrder | Integer | Display order |

## Product Colour

|  |  |  |
| --- | --- | --- |
| Product Colour |  |  |
| Field | **Type** | **Description** |
| id | int | Product Colour Identifier |
| name | String | Product Colour name |

## Product Size

|  |  |  |
| --- | --- | --- |
| Product Size |  |  |
| Field | **Type** | **Description** |
| id | int | Product Size Identifier |
| name | String | Product Size name |
| sizeOrder | int | Size Display Order |

## Product Option

|  |  |  |
| --- | --- | --- |
| Product Option |  |  |
| Field | **Type** | **Description** |
| Id | Integer | Product identifier |
| retailActive | Boolean | Active for retail |
| wholesaleActive | Boolean | Active for wholesale |
| size | Product Size Object | Product Size Object |
| colour | Product Colour Object | Product Colour |
| price | Decimal | Wholesale price to pay |
| rrp | Decimal | The price it retails for |
| onSale | Decimal | Is the product on sale ? |

## Product Type

|  |  |  |
| --- | --- | --- |
| ProductType |  |  |
| Field | **Type** | **Description** |
| id | Integer | Product Type identifier |
| enabled | Boolean | Is the Product Type enabled |
| name | String | Product Type name |
| code | String | The Product Type code |
| *description* (Optional) | String | The Product Type Description. |

## Category

|  |  |  |
| --- | --- | --- |
| Category |  |  |
| Field | **Type** | **Description** |
| id | Integer | Category identifier |
| enabled | Boolean | Is the category enabled |
| name | String | Category name |
| shortUrl | String | Short URL identifier |

# Wholesale Store Business Requirements

# Wholesale Store User Roles

# Wholesale Store Tech Spec

# Wholesale Store Design

# Appendix 1 – API Error Codes

|  |  |
| --- | --- |
| Code | Description |
| AU001 | Not Authorised |
|  |  |
| AU010 | Not authenticated |
| AU011 | Invalid username/password |
| AU012 | Inactive User |
| AU013 | Invalid Token |
|  |  |
|  |  |