**CMS Manhattan API and Design document**

DRAFT.

1. **Project description**

CMS Manhattan is sales application engine with Marketplaces functionality. J2EE Standards

1. **System Design for Amazon Cloud.**

A diagram of a computer

Description automatically generated

1. Application Design.

**3.1 Buy Flow Components**

BuyFlow Component diagram

The MVC diagram describes main components for buy flow process of application.

A screenshot of a computer screen

Description automatically generated

* 1. **Publish item Components.**

Publish Items Component diagram

The MVC diagram describes main components for publish data process of application.

**A screenshot of a computer screen

Description automatically generated**

1. **CMS MVC Framework**

There are 4 parts that represent CMS MVC Framework

**MVC - VEW** : implemented via JSP and XSLT .

So JSP provides data to display in XML format then XSLT can transform to HTML or JSON or ANOTHER format.

So assign VIEW developer must use **@PageController** **annotation**

**@PageController( jspName = "AccountHistory.jsp" )**

**public class AccountHistoryAction extends TemplateAction {**

**}**

And VIEW transformation via **@PageXsltView for model class.**

**@PageXsltView( jspName = "AccountHistory.jsp" , xsltName="accounthistory.xsl" , responseType= Type.XML )**

**public class AccountHistoryBean extends com.cbsinc.cms.WebControls implements java.io.Serializable {**

**}**

Then Maven build script will add the MVC component in configuration file .

**MVC – CONTROLLER**: implemented via java class.

So since developer assigned @PageController **annotation then**

Maven builds script will add the MVC component in configuration file.

**@PageController( jspName = "AccountHistory.jsp" )**

**public class AccountHistoryAction extends TemplateAction {**

**}**

**MVC-MODEL:** implemented via java class.

So since developer assigned @PageModel **annotation then**

Maven builds script will add the MVC component in configuration file.

**@PageXsltView( jspName = "AccountHistory.jsp" , xsltName="accounthistory.xsl" , responseType= Type.XML )**

**@PageModel( Id="accountHistoryBeanId" , scope=Scope.SESSION )**

**public class AccountHistoryBean extends com.cbsinc.cms.WebControls implements java.io.Serializable {**

**}**

1. **CMS MVC API**

CATALOG COMPOMENT – Product list

ProductlistAction . java is Controller

Get requests API

Default request URL - Productlist.jsp?**catalog**\_id=-2

Scroll result set cursor for request URL - Productlist.jsp?catalog\_id=-2& **offset**=10

Use “**offset**” for every request for every page .

Open a catalog by catalog\_id request URL - Productlist.jsp?catalog\_id=-101

Search via search key words by catalog\_id request URL - Productlist.jsp?**creteria1**\_id=211&**creteria2**\_id=7895&creteria3\_id=235&creteria4\_id=775&creteria5\_id=115&creteria6\_id=577&creteria1\_i7=25

Scroll result set cursor for Productlist.jsp?**creteria1**\_id=211&**creteria2**\_id=7895&creteria3\_id=235&creteria4\_id=775&creteria5\_id=115&creteria6\_id=577&creteria1\_i7=25& **offset**=10

Setup currency for items from catalog request URL - Productlist.jsp? currency\_cd=USD

Search via between dates :

Productlist.jsp?dayfrom\_id=1

Productlist.jsp?mountfrom\_id=1

Productlist.jsp?yearfrom\_id=2006

Productlist.jsp?dayto\_id=1

Productlist.jsp?mountto\_id=1

Productlist.jsp?yearto\_id=2006

POST requests

So **offset** avoid pulling big data set to avoid fill all memory

Search by text request .

<form name="searchform" action="Productlist.jsp" method="POST">

<input name="search\_value" type="text" size="20 value="">

<input name="search\_char" value=”” type="hidden">

<input name="**searchquery**" type="hidden" value="**1**" >

<input type="HIDDEN" name="**offset**" value="0">

</form>

Search via search key words

<form name="searchform" action="Productlist.jsp" method="POST">

<input name="search\_value" type="text" size="20 value="">

<input name="search\_char" value=”” type="hidden">

<input name="**searchquery**" type="hidden" value="**3**" >

<input type="HIDDEN" name="**offset**" value="0">

</form>

Search via char

<form name="searchform" action="Productlist.jsp" method="POST">

<input name="search\_value" type="text" size="20 value="">

<input name="search\_char" value=”” type="hidden">

<input name="**searchquery**" type="hidden" value="**2**" >

<input type="HIDDEN" name="**offset**" value="0">

</form>

Catalog Response in XML Format .



PRODUCT INFORMATION – Product full description

ProductInfoAction.java – Controller

Get requests API

Default request URL - ProductInfo.jsp?policy\_byproductid=982

ADD ITEM TO CART

<form name="order" action="Order.jsp" method="POST>

<input autocomplete="off" type="HIDDEN" name="position" value="23316050137317597">

<input autocomplete="off" type="HIDDEN" name="action" value="add">

<input autocomplete="off" type="number" size="6" min="1" max="90000" name="quantity" value="1>

<input class="button" autocomplete="off" type="Submit" name="Submit" alt="Add to cart" value="Add to cart>

</form>

Product information - Response in XML Format.



ORDER – Shopping cart



ORDER LIST – Purchase History



AUTHORIZATION - Registration and Authorization page

<form action="Authorization.jsp" method="post" id="form-login" class="form-login">

<input autocomplete="off" type="TEXT" name="Login" value="user">

<input autocomplete="off" type="PASSWORD" name="Passwd1">

<input class="button" type="submit" value="Enter" name="Submit"></div>

</form>

