CS779 – WEB SERVICES

ONLINE SHOPPING PORTAL

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We created an online shopping portal that utilizes the services of eBay. The online portal allows a user to search and browse for items or products from the web.

The shopping portal that we have implemented makes use of Ebay API's, namely The Ebay Finding API, Ebay Shopping API and a web service of our own.

In order to utilize the Ebay APIs, one has to first register as an ebay user on the developers.ebay.com web site. Once registered the user is provided with a keyset to use. This keyset allows a user to make a limited amount of API calls per day.

The Ebay APIs allow us to search across an Ebay domain and retrieve real time data about products from the Ebay datastore.

The admin is responsible for adding and deleting web services to and from the UDDI registry through the web portal. Once registered, the client can invoke any one of these services to perform different tasks.

Our Web portal allows a user to search for products using the Ebay APIs. Once searched, A client can then invoke functions such as add to cart, view cart, Buy.

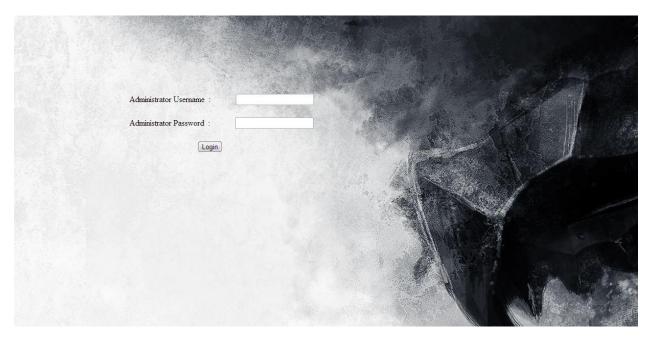
2. DESIGN



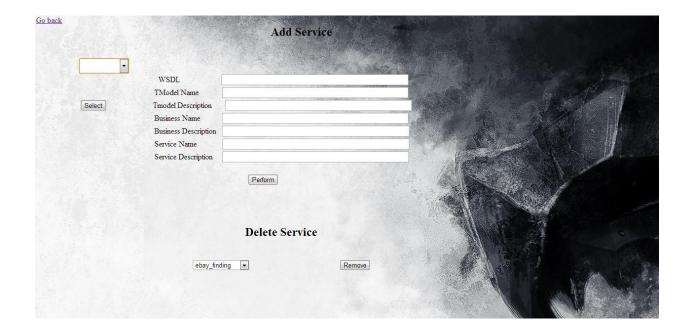
The first page of the portal contains the admin and the client login. The Client can also register as a first time user.



The user register page allows a user to register by providing his or her credentials.

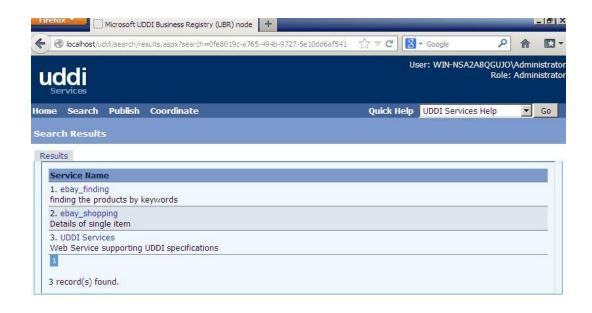


The Admin logs in using his or her username and password.

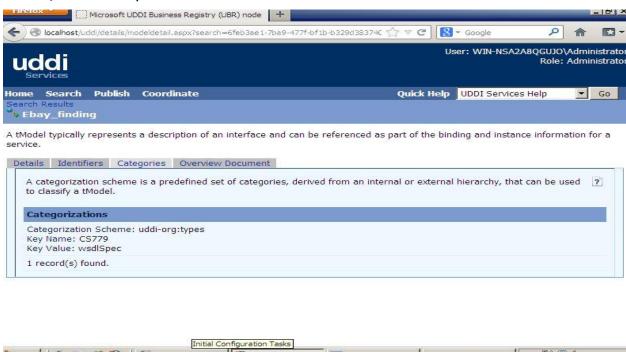


Once logged in, the admin can either add or delete services to and from the UDDI registry.

When adding a web service the admin needs to provide information such as the WSDL, Tmodel name, Business Name, Service Name etc. Once added, the service gets registered into the UDDI registry.



After adding services, the UDDI registry looks like this (above), When deleting a service, the admin provides the service name of the service to be deleted.



While registering a service, the admin provides the category name as CS779. The web service gets registered under the category CS779.

Welcomeshashank Logout	View Account Details					
shoo	d Products es t Details of a Product use Provide Item ID:		Search Get Single	ltem .		
ItemII	D ItemTitle	Image	Add to Cart			
22118682*	7493 Womens Shoes Heels Sandals Black Size 9		Add to Cart			
140917075	5550 Women's shoes size 7	S	Add to Cart			
330871158	**New** Unlisted By 8641 Kenneth Cole Brown Multi Heels - Size 6	mistari .	Add to Cart			

A client first invokes a web service by selecting it from the drop down list. Once selected, the client can invoke the services provided by it.

The Ebay Finding API allows a client to search for real time product information from the Ebay web site. The Ebay Shopping API allows a client to retrieve details for a single product.

Our web service allows a client to add items to a shopping cart, view the shopping cart and buy items.



While invoking the Shopping API, we use the FindSingleItem() method to retrieve details for a single product.

IMPLEMENTATION

Our implementation is a .NET based web portal. The admin and the client have access through this web portal. The web services are deployed on a UDDI registry locally on a Windows Server 2008 machine.

Workload Distribution

Shashank Menon, Samaresh Sridhar - Invoking Ebay APIs, our own Web service, configuring UDDI and creating user interface pages.

Ramnath Anantharaman - Database Connectivity and User Interface pages

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