# Design 1.1

**Introduction**

This document outlines the design for a **Mac OS X / Cocoa** based application for managing contacts using the **mydigitalstructure.com** platform.

**Covering:**

* User logon
* Contact Search
* Contact add and updating

The application is to be used as a developer example of how the RESTful mydigitalstructure.com platform service can be used with the Apple Mac OS X environment.

The proposed interface has been designed so it can easily be extended with more functional components.

The developer documentation for the platform can be found at <http://mydigitalstructure.com>.

**Overview**

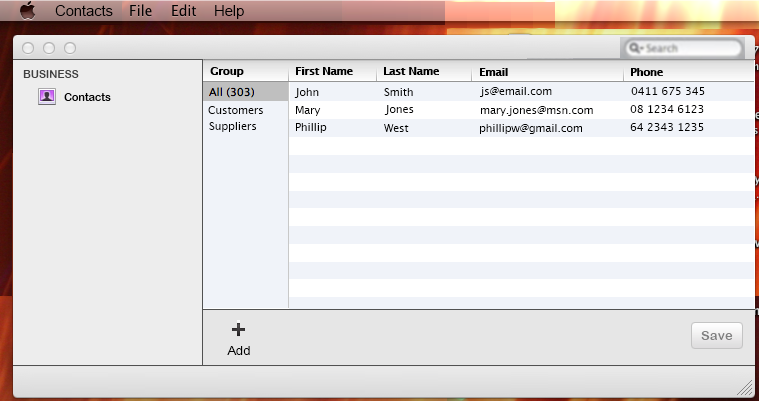
The interface works live of the mydigitalstructure.com platform.

The first step is to authenticate the user with a logon page – similar to using iTunes Store.  
  
Once authenticated then the main interface can be used to search contacts.

**Interface**

Images shown are conceptual only. All interface elements to be “Apple Theme” compliant.

Quit



Status

Main information and edit zone

Search for contacts

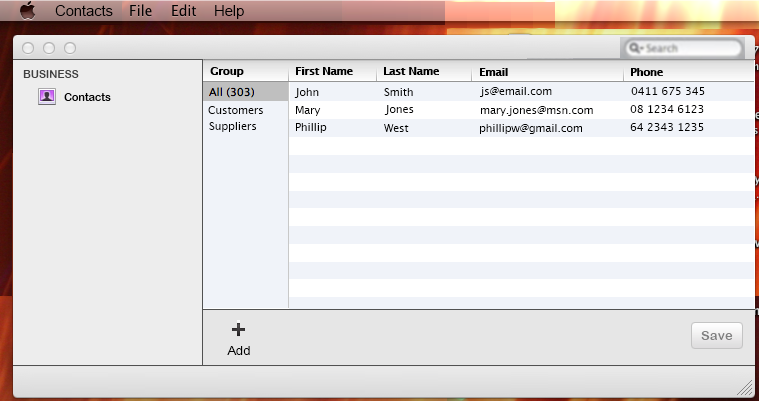
About

Save

Cut, Copy, Paste

New,

Save

**Interfaces – Processes Key**Processes

C

B

E

D

A

The RESTful calls are shown with rf=XML, if you wish you can change this to me rf=JSON.

|  |  |  |
| --- | --- | --- |
| Ref | **Layer** | **Description/method POST** |
| - | Logon | Logon name and password is sent using method:  url: https://secure.mydigitalspacelive.com/ondemand/ logon/  post: logon=[logon name]&password=[password]  The sid (session ID) needs to be extracted from the return and used in subsequent calls. |
| A | Get Contact Groups | This list has a default of All with a total contacts count next to it.  Custom groups are then displayed using:  url: https://secure.mydigitalspacelive.com/ondemand/ setup/?method=SETUP\_CONTACT\_PERSON\_GROUP\_SEARCH&rf=XML  post: sid=[sid from Logon] |
| B | Get Contacts based on group. | Search contacts based on the selected group.  This search uses the platform’s advanced search feature. See <http://mydigitalstructure.com/advancedsearch> for more details.  url: https://secure.mydigitalspacelive.com/ondemand/ setup/?method=CONTACT\_PERSON\_SEARCH&advanced=1&rf=XML& sid=[sid from Logon]  post: <advancedSearch>  <field>  <name>firstname</name>  </field>  <field>  <name>surname</name>  </field>  <field>  <name>email</name>  </field>  <field>  <name>phone</name>  </field>  <summaryField>  <name>count contactcount</name>  </summaryField>  <filter>  <name>persongroup</name>  <comparison>EQUAL\_TO</comparison>  <value1>[id from group list]</value1>  <value2/>  </filter>  <options>  <rf>xml</rf>  <startrow>0</startrow>  <rows>20</rows>  <returnparameters>false</returnparameters>  </options>  </advancedSearch> |

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| --- | --- | --- |
| Ref | **Layer** | **Description/method POST** |
| C | Get contacts based on group and text search | Search contacts based on the selected group and also the text entered in the search text box.  url: https://secure.mydigitalspacelive.com/ondemand/ setup/?method=CONTACT\_PERSON\_SEARCH&advanced=1&rf=XML& sid=[sid from Logon]  post: <advancedSearch>  <field>  <name>firstname</name>  </field>  <field>  <name>surname</name>  </field>  <field>  <name>email</name>  </field>  <field>  <name>phone</name>  </field>  <summaryField>  <name>count contactcount</name>  </summaryField>  <filter>  <name>persongroup</name>  <comparison>EQUAL\_TO</comparison>  <value1>[id from group list]</value1>  <value2/>  </filter>  <filter>  <name>quicksearch</name>  <comparison>TEXT\_IS\_LIKE</comparison>  <value1>[as entered in search box]</value1>  <value2/>  </filter>  <options>  <rf>xml</rf>  <startrow>0</startrow>  <rows>20</rows>  <returnparameters>false</returnparameters>  </options>  </advancedSearch> |
| D | Add a new contact | Display in the main edit area entry fields for first name, last name, email and phone.  Then /ondemand/contact/?method=CONTACT\_PERSON\_MANAGE to add the contact. |

|  |  |  |
| --- | --- | --- |
| Ref | **Layer** | **Description/method POST** |
| E | Editing an existing contact | Click on the contact in the list and then display edit fields with values filled in and use /ondemand/contact/?method=CONTACT\_PERSON\_MANAGE with &id=[contact ID] to update the contact.  To search for the contact use:  <advancedSearch>  <field>  <name>firstname</name>  </field>  <field>  <name>surname</name>  </field>  <field>  <name>email</name>  </field>  <field>  <name>phone</name>  </field>  <filter>  <name>id</name>  <comparison>EQUAL\_TO</comparison>  <value1>[id from contact list]</value1>  <value2/>  </filter>  <options>  <rf>xml</rf>  <startrow>0</startrow>  <rows>20</rows>  <returnparameters>false</returnparameters>  </options>  </advancedSearch> |