



API Developer Tool

The API Developer Tool is the main application that has been created to help web developers understand the API documentation and to provide some examples on how to retrieve and parse information returned from an API call to the FirstClass server.

Introduction

FirstClass 12 API Developer Tool v1.1

Unread Mail Items Log Off Cancel

Post/Get

http://www.firstclassdemo.com:8000/FCP/?TypedFolder=1&Filter=0x8000&ReplyAsJSON

Data Received

```
{
  "13074": 2,
  "13082": 16,
  },
  "MLDS": [
    {
      "9": "Paulo Coelho, Chiquinquir Delgado, and 4 others have Tweets for you",
      "37": {
        "b64": "YBQ="
      },
      "38": "3B9ACA0028D6DACB",
      "39": "3B9ACA00CBAD628",
      "40": 245636,
      "46": 1,
      "51": "20000000",
      "8010": "<n-wfpuzb=svefgpynffqrzb.pbz-25bbd@postmaster.twitter.com>",
      "8098": 1000000000,
      "8142": {

```

Information / Sample Parsed Data

noreply <noreply@facebookmail.com>
Do you know Leif Jaederfeldt, Nathalie Mark-Yam and 3 others?
Sun Mar 17 2013 16:21:25 GMT-0700 (PDT)

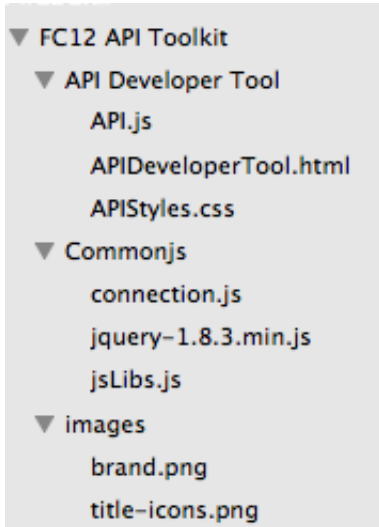
Emily Heidrich
Hi Jo!
Tue Jan 22 2013 11:20:20 GMT-0800 (PST)

Emily Heidrich
New Year Projections
Thu Feb 21 2013 08:07:19 GMT-0800 (PST)

Stewart Lynch <slynch@opentext.com>
Greetings from OpenText
Thu Jan 03 2013 07:42:05 GMT-0800 (PST)

The API Developer tool provides the most visual information on how to use the API.

Required Files



The API Developer tool uses the following Files

- API Developer Tool/**APIDeveloperTool.html** (the primary html file)
- API Developer Tool/**API.js** (the primary javascript file)
- API Developer Tool/**APIStyles.css** (the primary css file)
- Commonjs/**connection.js**
- Commonjs/**jquery-1.8.3.min.js**
- Commonjs/**jsLibs.js**
- Images/**brand.png**
- images.**title-icons.png**

Logging In

The screenshot shows the API Developer Tool interface. At the top, there's a browser window with the URL `http://www.firstclassdemo.com:8000/?ReplyAsJSON`. Below the browser window, there's a login form with fields for `UserID` (containing `jschmo`) and `Password` (containing `*****`). There are radio buttons for `sha 512 hash` (selected) and `Clear Text`. A `Login` button is present. Below the login form, there's a `Select an Option` dropdown and a `Log Off` button.

1. The `Post/Get` tab shows the request details:

```
http://www.firstclassdemo.com:8000/?ReplyAsJSON
Data Sent: JSON={"login": {"userid": "jschmo", "sha512digest": "Y2ZkOGI5NjcyYTcwYTg0YmMyNTJmMzZiYzVjOGNhZGI5ODg3ZmZlOTE1M"}}
```

2. The `Data Received` tab shows the raw JSON response:

```
{
  "LOGINREPLY": {
    "DeskObjID": 0,
    "LastLogin": 3448883263,
    "TotalConnect": 1141764,
    "DailyRemaining": 846083879,
    "AutoRegAvail": 0,
    "LinkVersion": 13,
    "ServerVersion": 11242,
    "PrefBits": 52256,
    "ServerTZ": 6554336,
    "PrefByte1": 0,
    "Features": 2145107639,
    "SysCharSet": 65001,
    "ServerTime": 3448883416,
    "Features2": 4293391328,
    "RemoteSiteID": 18840287,
    "WebSocketEnabled": 1,
    "SiteName": "FirstClass Demo",
    "DesktopWebID": "Desktop00000000000000000000",
    "pwSeed": "",
    "FCWSVersion": "OpenText FC WebServer 12.0.011 (FC WebAPI 1) (Windows)",
    "VKEYS": [

```

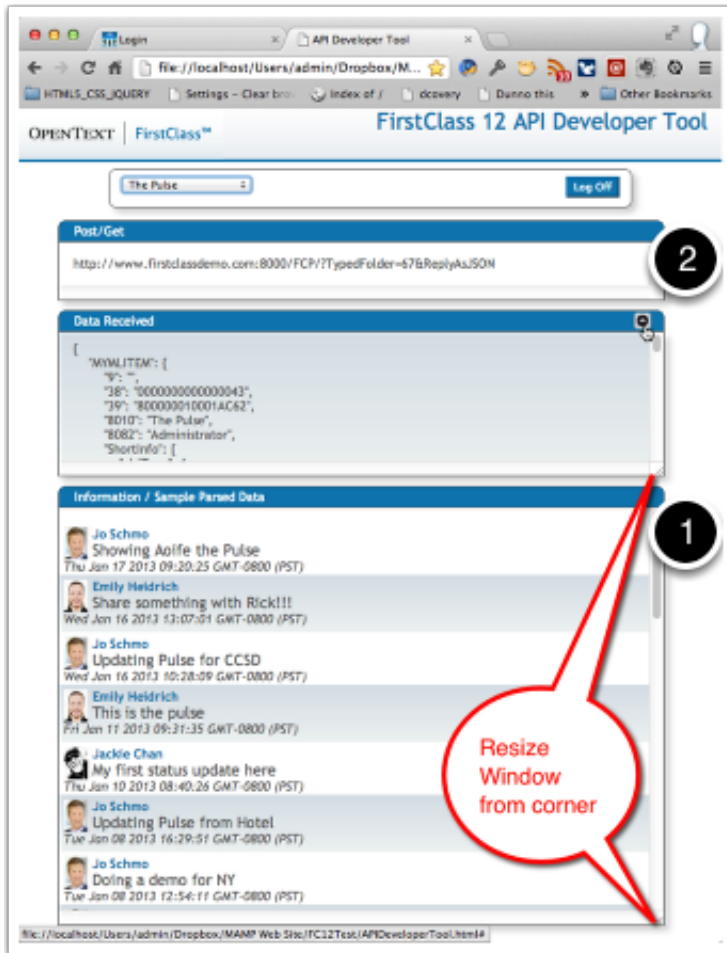
3. The `Information / Sample Parsed Data` tab shows a table of parsed data:

Logged in to SiteID:	18840287
SiteName:	FirstClass Demo
FCWS Version:	OpenText FC WebServer 12.0.011 (FC WebAPI 1) (Windows)
Total time logged:	13 days, 5 hrs, 9 min, 24 secs
Last Login:	Mon Apr 15 2013 15:07:43 GMT-0700 (PDT)
Server Version:	11.242
Server Time:	Mon Apr 15 2013 15:10:16 GMT-0700 (PDT)
Daily time remaining:	Unlimited

The current implementation of the API requires an authenticated login. The tool allows you to choose between a **base64 sha 512 hash encrypted** or a **clear text** password. After clicking the Login button, you will see the following:

1. The URL that is sent to the server along with any POST data that accompanies the request.
2. The data that is returned from the server in its raw JSON form.
3. A sample of how a web developer may wish to parse and display the returned data.

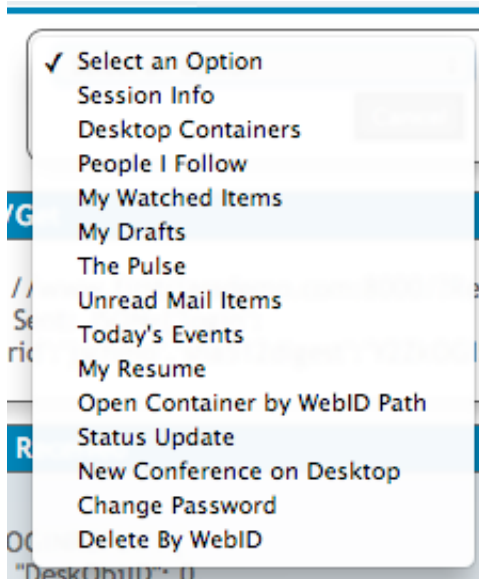
The Interface



The tool has a simple interface that allows you to expand and shrink the Data Received and Information / Sample Parsed Data sections so you can better view the content.

1. Each window has a resizing corner that you can use to increase or reduce the height.
2. You can dismiss the **Data Received** window entirely by clicking on the collapse button. This is a toggle so clicking again will expand it back to its previous size.

Options



A number of different options are available once logged in. An effort has been made to provide developers with a range of examples that might prove useful if they are trying to incorporate FirstClass content within their own web applications.

Session Info

FirstClass 12 API Developer Tool v1.1

Session Info Log Off Cancel

Post/Get

http://www.firstclassdemo.com:8000/FCP/?KnownObject=-3&ReplyAsJSON

Data Received

```
{
  "7003": "Schmo",
  "7004": "FirstClassDemo.com",
  "7005": 1800,
  "7006": 2175,
  "7007": 6554336,
  "7008": 6554336,
  "7009": 14969,
  "7010": 50000000,
  "7012": "jschmo",
  "7013": "www.firstclassdemo.com",
  "7014": "-jschmo",
  "7018": 1252,
  "7020": "A Great Day for FirstClass",
  "7024": "846082247"
}
```

Information / Sample Parsed Data

fcplLoginConnAddress:	184.70.15.34
fcplGUIOption:	1
fcplFirstName:	Jo
fcplInitials:	K
fcplLastName:	Schmo
fcplExposedGroups:	Staffer,Big Whig
fcplPrimaryDomainName:	FirstClassDemo.com
fcplLogoffTimer:	1800
fcplSessionCID:	2175
fcplUserTimeZone:	6554336
fcplServerTimeZone:	6554336
fcplCurrentDiskUsed:	14969k
fcplCurrentDiskQuota:	50000000k
fcplUserID:	jschmo
fcplWebDomainName:	www.firstclassdemo.com
fcplHomePageRoot:	-jschmo
fcplPreviousCharSet:	1252
fcplPersonalMessage:	A Great Day for FirstClass
fcplPersonalMessageTime:	Mon Apr 15 2013 15:37:34 GMT-0700 (PDT)
fcplBFDomainName:	otsw.firstclassdemo.com
fcplSysUsersTotal:	193

Desktop Containers



the general call to open the user's desktop, fetching everything that is stored on the user's home screen. This includes items that are invisible to the user. To display containers only, this section filters out and displays only visible containers to the viewer.

People I Follow

The screenshot displays the FirstClass 12 API Developer Tool v1.1 interface. At the top, there's a browser window with the address bar showing a file path. Below the browser window, the tool's header includes the OpenText logo and the text 'FirstClass™'. A dropdown menu labeled 'People I Follow' is open, showing a 'Cancel' button and a 'Log Off' button. Below the dropdown, there's a 'Post/Get' section with a URL and a message: 'Desktop data is filtered after return to show only requested items.' The 'Data Received' section shows a JSON object representing a user's profile. The 'Information / Sample Parsed Data' section displays a list of four users followed by the current user, each with a profile picture, name, and a status update.

People I Follow [Cancel] [Log Off]

Post/Get
 http://www.firstclassdemo.com:8000/FCP/Desktop00000000000000000000?ReplyAsJSON
 Desktop data is filtered after return to show only requested items.

Data Received

```
{
  "MYMLITEM": {
    "9": "",
    "8010": "",
    "ShortInfo": {
      "objType": 0,
      "subType": 0,
      "modDate": 0,
      "status": 0,
      "locationV": 0,
      "locationH": 0,
      "iconID": 0,
      "size": 0,
      "unreadCount": 0
    }
  }
}
```

Information / Sample Parsed Data

	Following this Person I'm looking forward to Stewart's demo
	Following this Person My New Status Again
	Following this Person I'm at Apple as well!
	Following this Person Looking forward to a great holiday season

As mentioned above, retrieving the desktop retrieves everything that is stored on the user's home screen including items that are invisible to the user. To retrieve the **People I follow**, the desktop is retrieved and the developer must filter the results to display only people.

My Watched Items

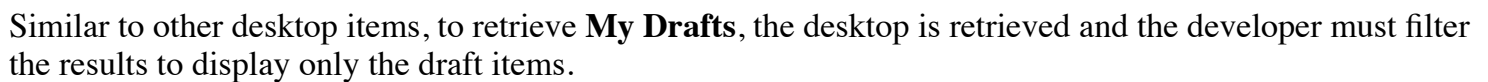
The screenshot displays the FirstClass 12 API Developer Tool v1.1 interface. At the top, there's a browser window with tabs for 'FirstClass 12 API' and 'API Developer Tool'. The address bar shows a file path. Below the browser window, the tool's header includes 'OPENTEXT | FirstClass™' and 'FirstClass 12 API Developer Tool v1.1'. A search bar labeled 'My Watched Items' is present, along with a 'Log Off' button and a 'Cancel' button. The main content area is divided into three sections:

- Post/Get**: Shows a URL: `http://www.firstclassdemo.com:8000/FCP/DeskTop0000000000000000000000?ReplyAs.JSON`. Below the URL, a red message states: 'Desktop data is filtered after return to show only requested items.'
- Data Received**: Displays a JSON object:


```
{
  "MYMLITEM": {
    "g": "",
    "8010": "",
    "ShortInfo": {
      "objType": 0,
      "subType": 0,
      "modDate": 0,
      "status": 0,
      "locationV": 0,
      "locationH": 0,
      "iconID": 0,
      "size": 0,
      "unreadCount": 0
    },
    "parentid": "None",
  }
}
```
- Information / Sample Parsed Data**: Shows a list of items with icons and text:
 - In Budget Planning
 - 2013 Budget
 - In Staff Discussions
 - Year end

Similar to other desktop items, to retrieve **My Watched Items**, the desktop is retrieved and the developer

My Drafts



The Pulse

FirstClass 12 API Developer Tool v1.1

OPENTEXT | FirstClass™

The Pulse Log Off Cancel

Post/Get

http://www.firstclassdemo.com:8000/FCP/?TypedFolder=67&ReplyAsJSON

Data Received

```
{
  "MYMLITEM": {
    "g": "",
    "38": "0000000000000043",
    "39": "800000010001AC62",
    "8010": "The Pulse",
    "8082": "Administrator",
    "8142": {
      "b64": "Txb49Ue0fZirAEAAQAAAA=="
    },
    "ShortInfo": {
      "objType": 1,
      "subType": 67
    }
  }
}
```

Information / Sample Parsed Data

Emily Heidrich
I'm looking forward to Stewart's demo
Mon Apr 08 2013 05:19:11 GMT-0700 (PDT)

Jo K. Schmo
Jo K. Schmo has posted a blog update: My new Blo
Thu Apr 04 2013 17:08:05 GMT-0700 (PDT)

Jo K. Schmo
Let's start conversing
Wed Apr 03 2013 17:06:22 GMT-0700 (PDT)

Emily Heidrich
Emily Heidrich has posted a blog update: Maui
Wed Mar 27 2013 07:25:48 GMT-0700 (PDT)

Jo K. Schmo
Jo K. Schmo has posted a blog update: Great things are in the works
Wed Mar 27 2013 07:18:48 GMT-0700 (PDT)

Jo K. Schmo
I am looking forward to joining it.
Thu Mar 21 2013 14:48:56 GMT-0700 (PDT)

The **Pulse** returns and displays the current pulse entries for the logged in user.

Unread Mail Items

FirstClass 12 API Developer Tool v1.1

Unread Mail Items Log Off Cancel

Post/Get

http://www.firstclassdemo.com:8000/FCP/?TypedFolder=1&Filter=0x8000&ReplyAsJSON

Data Received

```
{
  "MYMLITEM": {
    "g": "",
    "38": "0000000000000001",
    "39": "800000010001224D",
    "8010": "Mailbox",
    "8021": "dsfsdfsdfs",
    "8142": {
      "b64": "5zLoNXJgC81NlgEAAQAAAA=="
    },
    "ShortInfo": {
      "objType": 24,
      "subType": 1
    }
  }
}
```

Information / Sample Parsed Data

Do you know Kristina Guin, Alison Bishop and 8 others?
Wed Mar 27 2013 12:11:43 GMT-0700 (PDT)

noreply <noreply@facebookmail.com>
Do you know Fay Tremblay, Yoriko Todd and 8 others?
Fri Mar 22 2013 09:10:54 GMT-0700 (PDT)

Emily Heidrich
Re: Can you prepare the budget?
Thu Mar 21 2013 16:29:22 GMT-0700 (PDT)

noreply <noreply@facebookmail.com>
Do you know Leif Jaederfeldt, Nathalie Mark-Yam and 3 others?
Sun Mar 17 2013 16:21:25 GMT-0700 (PDT)

Emily Heidrich
Hi Jo!
Tue Jan 22 2013 11:20:20 GMT-0800 (PST)

Emily Heidrich
New Year Projections
Thu Feb 21 2013 08:07:19 GMT-0800 (PST)

Stewart Lynch <slynch@opentext.com>
Greetings from OpenText
Thu Jan 23 2013 07:43:05 GMT-0800 (PST)

This **Unread Mail Items** option will list all of the unread mail items for the currently logged in user.

Today's Events

FirstClass 12 API Developer Tool v1.1

Today's Events Log Off Cancel

Post/Get

http://www.firstclassdemo.com:8000/FCP/?
TypedFolder=21&Date=20130415&flags=2&View=day&ReplyAsJSON

Data Received

```
{
  "MYMLITEM": {
    "9": "",
    "38": "0000000000000015",
    "39": "800000010001224E",
    "51": "02000000",
    "8010": "Calendar",
    "8098": 2175,
    "8142": {
      "b64": "BxaFLGOpvR0IgEAAQAAAA=="
    },
    "ShortInfo": {
      "objType": 1
    }
  }
}
```

Information / Sample Parsed Data

Dentist Appointment
3:00 PM - 4:00 PM

Pick up Laundry

Today's Events returns a list of both events and tasks that are scheduled for the current day.

My Résumé

FirstClass 12 API Developer Tool v1.1

My Resume Log Off Cancel

Post/Get

http://www.firstclassdemo.com:8000/?Resume&ReplyAsJSON

Data Received

```
{
  "37": 0,
  "2017": "0",
  "3001": "Director",
  "3002": "Fred Myers",
  "3003": "",
  "3004": "OpenText",
  "3008": "Vancouver",
  "3010": "123.456.789",
  "3011": "555.888.9955",
  "3012": "FirstClass",
  "3013": "BSc",
  "3014": "Track and Field",
  "3016": "jschmo@somewhere.com",
}
```

Information / Sample Parsed Data

	Position: Director
	Location: Vancouver
	Phone: 123.456.789
	Mobile: 555.888.9955
	email: jschmo@somewhere.com

My Résumé returns the user's profile résumé and presents a sample of the retrieved information.

Open Container by WebID Path

The screenshot shows the API Developer Tool interface. At the top, there's a browser window with the address bar showing 'file:///Users/slync/Dropbo...'. Below the browser, there's a 'FirstClass' header with 'Documents' and '1 of 2' pages. A 'Log Off' button is visible. Below this, there's a section for 'Open Container by WebID Path' with a 'Full Path' input field containing 'DeskTop00000000000000000000/800000010001225'. There are 'Open' and 'Cancel' buttons. Below this, there's a 'Post/Get' section with a URL 'http://www.firstclassdemo.com:8000/FCP/DeskTop00000000000000000000/8000000100012250000000' and 'ReplyAsJSON'. Below that, there's a 'Data Received' section showing a JSON object with fields like 'locationH', 'iconID', 'size', 'unreadCount', 'parentid', 'webid', 'index', 'objAttributes', 'dirAttributes', 'FORMID', 'NFILES', and 'RIGHTS'. At the bottom, there's an 'Information / Sample Parsed Data' section showing a list of documents with icons, titles, and owners.

Open Container by WebID Path Log Off

Full Path: Open Cancel

Post/Get

http://www.firstclassdemo.com:8000/FCP/DeskTop00000000000000000000/8000000100012250000000
ReplyAsJSON

Data Received

```
{
  "locationH": 32,
  "iconID": 1032,
  "size": 1,
  "unreadCount": 0
},
{
  "parentid": "DeskTop00000000000000000000",
  "webid": "8000000100012250000000000220",
  "index": 3,
  "objAttributes": 0,
  "dirAttributes": 0
},
{
  "FORMID": 0,
  "NFILES": 7,
  "RIGHTS": 655347
}
```

Information / Sample Parsed Data

	A very new document	Owner: Jo K. Schmo
	New Form	Owner: Jo K. Schmo
	fcLocalStorage	Owner: Jo K. Schmo
		Owner: Jo K. Schmo

When you view the JSON data that is returned you will notice a WebID for every object. You can open a container if you specify the full path to that container. For example, I notice that when I opened the Desktop container, it has a WebID of **DeskTop00000000000000000000** and on that desktop is the Documents folder

which has a WebID of **8000000100012250000000000220**

With this option, you can specify the full path

DeskTop00000000000000000000/8000000100012250000000000220 to open and retrieve the contents of that container

Status Update

The screenshot displays the FirstClass API Developer Tool interface. At the top, there's a browser window with tabs for 'FirstClass 12 API' and 'API Developer Tool'. The address bar shows a file path. Below the browser, the 'FirstClass' logo is visible. The main interface has a 'Status Update' section with a dropdown menu, a text input field containing 'A Great Day for FirstClass', and buttons for 'Log Off', 'Post to Pulse', and 'Cancel'. Below this, there are three panels: 'Post/Get' showing the URL and data sent, 'Data Received' showing the JSON response, and 'Information / Sample Parsed Data' showing a success message and the updated vkey.

Status Update:

Post/Get

http://www.firstclassdemo.com:8000/?ReplyAsJSON"
Data Sent: JSON={"pulsepost":"A Great Day for FirstClass"}&VKey=3702652731

Data Received

```
{
  "ERROR": {
    "code": 0,
    "msg": "done"
  },
  "VKEYS": [
    {
      "vkey": "1735742423"
    }
  ]
}
```

Information / Sample Parsed Data

No error. Action succeeded.
vKey[7] updated with 1735742423

The **Status Update** is an example of a POST to FirstClass that will update the user's status and post to the Pulse. This requires the completion of a field first before submission. For all POST items, you must also submit a VKEY (one of 10 vkeys retrieved from the LOGINREPLY JSON data.) Returned with the data is

also a replacement vkey that must replace the one used in this query.
A subsequent retrieval of the pulse will show that the entry has been submitted.

Change Password

The screenshot shows the 'FirstClass 12 API Developer Tool v1.1' interface. At the top, there's a 'Change Password' tab and a 'Log Off' button. Below the tab, there are two input fields: 'Old Password' with the value 'oldpassword' and 'New Password' with the value 'newpassword'. A 'Change Password' button is located below these fields.

Below the form, there are three sections:

- Post/Get:** Shows the URL 'https://fcws.fcdemolocal.com:8443/?ReplyAsJSON' and the data sent in JSON format:


```
Data Sent: JSON={"changepassword": {"oldpass": "sOa%2FMG%2FSkL9sUYQMxvcGzq8COqLYctTNYg1bZA%3D%3D", "newpass": "sOe2I2%2FSkL9sUYQWMZJKamlsJmpeohuH%2FYKPRQ%3D%3D"}}&VKey=1345986148
```
- Data Received:** Shows the JSON response:


```
{
  "ERROR": {
    "code": 0,
    "msg": "done"
  },
  "VKEYS": [
    {
      "vkey": "2862397743"
    }
  ]
}
```
- Information / Sample Parsed Data:** Shows a red message:


```
No error. Action succeeded.
vKey[6] updated with 2862397743
```

Change Password is another **POST** example that requires the old and new password to be submitted (POSTED) to the server. A password change requires both a vkey and that the clear text password be encrypted prior to submission. Once submitted, the vkey replacement must be made.
In addition, a password change is only allowed if you have an **SSL certificate** and the **API Server Address**

reflects this. ie, an **SSL connection** is required and this example checks for 'https' in the server address. If this criteria is met, you will be presented with a field to enter your old password and another

New Conference on Desktop

The screenshot shows a web browser window with the URL `file:///localhost/Users/admin/Dropbox/...`. The page title is "FirstClass 12 API Developer Tool". The interface includes a "New Conference" form with the following fields and actions:

- New Conference** (dropdown menu)
- Conference Name:** (labeled 1)
- Icon ID:** (labeled 2)
- Create Conference** (button, labeled 3)
- Log Off** (button)

Below the form, the "Post/Get" section shows the following data:

```
http://www.firstclassdemo.com:8000/?ReplyAsJSON
Data Sent: JSON=[{"create":{"webid":"DeskTop0000000000000000000000","type":1,"name":"Check it out","iconid":23071}}]
```

The "Data Received" section shows the following JSON response:

```
{
  "MYMLITEM": {
    "9": "",
    "39": "8000000100025299",
    "8010": "Check it out",
    "8098": 2175,
    "ShortInfo": {
      "objType": 1,
      "subType": 0,
      "modDate": 3441357864,
      "status": 0,
      "LocationV": 0
    }
  }
}
```

The "Information / Sample Parsed Data" section shows the following message:

Conference created on Desktop

 Check it out

The **New Conference** option is another example of a **POST** that requires a name and iconID. This creates the conference on the user's desktop and displays the resulting container and icon in the Information window. As with the PULSE entry, this too requires a vkey and vkey replacement upon completion. Enter:

1. A **Conference Name**
2. A valid **Icon ID**
3. Click on **Create Conference**

Delete by WebID

The screenshot displays the 'FirstClass 12 API Developer Tool v1.1' interface. At the top, there's a browser-like header with tabs for 'FirstClass 12 API' and 'API Developer Tool'. Below the header, the tool's title 'FirstClass 12 API Developer Tool v1.1' is prominently displayed. The main area contains a form for deleting an item. It includes a 'Delete By WebID' dropdown, a 'Log Off' button, and input fields for 'Parent WebID' (8000000100012250000000000220) and 'Child WebID' (011F7ADF0003BCE8000000001600). There are 'Delete Item' and 'Cancel' buttons. Below the form, three panels show the API details: 'Post/Get' with the URL 'http://www.firstclassdemo.com:8000/?ReplyAsJSON' and the data sent as a JSON object; 'Data Received' showing the JSON response with an error code of 0 and a message 'done'; and 'Information / Sample Parsed Data' showing a success message: 'No error. Action succeeded. vKey[8] updated with 4217875106'.

FirstClass 12 API Developer Tool v1.1

Delete By WebID Log Off

Parent WebID: 8000000100012250000000000220

Child WebID: 011F7ADF0003BCE8000000001600

Delete Item Cancel

Post/Get

http://www.firstclassdemo.com:8000/?ReplyAsJSON
Data Sent: JSON={"delete":
{"webid": "8000000100012250000000000220", "childwebid": "011F7ADF0003BCE8000000001600"}}&VKey=156

Data Received

```
{
  "ERROR": {
    "code": 0,
    "msg": "done"
  },
  "VKEYS": [
    {
      "vkey": "4217875106"
    }
  ]
}
```

Information / Sample Parsed Data

No error. Action succeeded.
vKey[8] updated with 4217875106

To delete an item, you need both the webID of the item and the webID of the parent container. This can be found during the opening of a container as per one of the previous examples. For example, when I opened the Documents folder (webID: **8000000100012250000000000220**) I noticed a file called New Form 1 that has a

webID: **011F7ADF0003BCE8000000001600** and these two values can be used to delete the file.
As this is a **POST** to the server, a vkey is required.

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