- API End Points
- Example Script

Job Search API

getFields

Input: null
Returns: JSON : fields
URL: /api/jobs/fields

getSingleJob

Input: string : VacancyID
Returns: JSON : Vacancy Details
URL: /api/jobs/view/{VACANCYID}

search

Input: string : queryString
Returns JSON : Search Results
URL: /api/jobs/jobs?

Examples
Return all jobs that contain a text string of test

```
/api/jobs/jobs?$text=test
```

As you can fetch the job fields, you can also search on those, in my example I have a field called V_LOC which contains the location of a vacancy

```
/api/jobs/jobs?V_LOC=Edinburgh&$text=Programmer
```

This would return all vacancies that have “Edinburgh” in their V_LOC field that matches the text string “Programmer”

To return all vacancies - don't send any query strings

```
/api/jobs/jobs
```

There is a fully working example of the APIs with source code on the “examples” tab above.

Setup Job Search Widget

Use this widget to embed a search form onto your own website.

First, copy and paste the below code where you would like the search form to be



col-md-* is used as an example for bootstrap websites, your website may use a different grid system or a different column class.

```
<style>
    /* if debugging set this to BLOCK */
    #debugBlock{
        display:block;
    }
    #jobTable{
        width:100%!important;
        display:none;
    }
    #jobsearch, .advanced-field-element{
        padding: 12px;
        margin: 6px 0 4px;
        border: 1px solid #ccc;
        background: #fafafa;
        font-family: sans-serif;
        font-size: 12px;
        line-height: normal;
        box-sizing: border-box;
        border-radius: 2px;
    }
    .advanced-field-element{
        width:100%!important;
    }
    #searchButton, .applyButton{
        display: inline-block;
        width: auto;
        height: auto;
        padding: 0.3em 2.5em;
        border-width: 0;
        text-align: center;
        cursor: pointer;
        outline: none;
```

```
            -webkit-appearance: none;
            -moz-appearance: none;
            appearance: none;
        }
        .jobTable {
            font-family: "Trebuchet MS", Arial, Helvetica, sans-serif;
            border-collapse: collapse;
            width: 100%;
        }

        .jobTable td, .jobTable th {
            border: 1px solid #ddd;
            padding: 8px;
        }

        .jobTable tr:nth-child(even){
            background-color: #f2f2f2;
        }

        .jobTable tr:hover {
            background-color: #ddd;
        }

        .jobTable th {
            padding-top: 12px;
            padding-bottom: 12px;
            text-align: left;
            background-color: #6900a2;
            color: white;
        }
        .codeBlock{
            background-color: #eee;
            padding: 10px;
            border-radius: 5px;
            border: 1px solid #ccc;
        }
        .modal {
            display: none;
            position: fixed;
            z-index: 9999999999999;
            left: 0;
            top: 0;
            width: 100%;
            height: 100%;
            overflow: auto;
            background-color: rgb(0,0,0);
            background-color: rgba(0,0,0,0.4);
        }
```

```
        .modal-content {
            background-color: #fefefe;
            margin: 2% auto;
            padding: 20px;
            border: 1px solid #888;
            width: 80%;
        }

        .close {
            color: #aaa;
            float: right;
            font-size: 28px;
            font-weight: bold;
        }

        .close:hover,
        .close:focus {
            color: black;
            text-decoration: none;
            cursor: pointer;
        }
        .info, .success, .warning, .error, .validation {
            border: 1px solid;
            margin: 10px 0px;
            padding:15px 10px 15px 50px;
            background-repeat: no-repeat;
            background-position: 10px center;
        }
        .info {
            color: #00529B;
            background-color: #BDE5F8;
        }
        .success {
            color: #4F8A10;
            background-color: #DFF2BF;
        }
        .warning {
            color: #9F6000;
            background-color: #FEEFB3;
        }
        .error {
            color: #D8000C;
            background-color: #FFBABA;
        }
        .sorting_disabled{
            text-align: center!important;
        }
        .dataTables_wrapper{
```

```
            overflow-x:auto;
        }
        .dataTables_wrapper .odd, .dataTables_wrapper .even{
            cursor:pointer;
        }
        #DsimpleSearch, #dadvancedSearch{
            text-align: center;
        }
        #dadvancedSearch{
            display:none;
        }
        .modalButtons, #modalButtons{
            float:right;
        }
        .clearfix{
            clear:both;
        }
    </style>

    <div class="col-md-4">
        <div class="row">
            <div id="DsimpleSearch">
                <h2>Simple Search</h2>
                <form action="#" method="get" id="simpleSearch"
onSubmit="doBasicSearch();return false;">
                    <input type="text" id="jobsearch" name="jobsearch"
class="field-element field-control" placeholder="Search for Jobs">
                    <button name="searchButton"
onClick="doBasicSearch();return false;" id="searchButton" class="btn btn-
primary">Search</button>
                    <div>
                        <a href="#" onClick="showAdvancedSearch(); return
false;">Advanced Search</a>
                    </div>
                </form>
            </div>

            <div id="dadvancedSearch">
                <h2>Advanced Search</h2>
                <form action="#" method="get" id="advancedSearch"
onSubmit="doAdvancedSearch();return false;" >
                    <label for='$text'>Keyword</label>
                    <br>
                    <input type='text' id='$text' name='$text' class='form-
control' placeholder='Keyword(s)'>
                    <br />
                    <div id="advancedFields">
                        <!-- Fields auto generated here -->
```

```
                    </div>
                    <br>
                    <button name='searchButton'
onClick='doAdvancedSearch();return false;' id='searchButton' class='btn btn-
primary'>Advanced Search</button>
                    <div>
                        <a href="#" onClick="showSimpleSearch(); return
false;">Simple Search</a>
                    </div>
                </form>
            </div>
        </div>
    </div>

    <div class="col-md-8">
        <div id="jobsFeedback"></div>
        <table id="jobTable" class="jobTable table table-responsive">
            <thead>
                <tr>
                  <th>Position</th>
                  <th>Job Type</th>
                  <th>Department</th>
                  <th>Start Date</th>
                  <th>Action</th>
                </tr>
            </thead>
            <tbody id="jobTableBody">
            </tbody>
        </table>
        <div id="debugBlock">
            <br>
            <h1>Response from Server</h1>
            <pre id="searchResults" class="codeBlock">{ }</pre>
        </div>
    </div>

    <div id="jobModal" class="modal">
      <div class="modal-content">
        <span class="close" onClick="closeDialog();return
false;">&times;</span>
        <div id="modalMainContent">
            Loading ...
        </div>
        <br><br>
        <div id="modalButtons">
        </div>
        <div class="clearfix"> </div>
      </div>
```

```
    </div>
```

Then copy and paste the following in the footer of your website.



Replace YOURWEBSITE-HERE with the full domain (or subdomain) where IQXWeb is installed, remember to keep the prepending / / and ending /

```
    <link rel="stylesheet"
href="//cdn.datatables.net/1.10.15/css/jquery.dataTables.min.css">
    <script
src="//ajax.googleapis.com/ajax/libs/jquery/1/jquery.min.js"></script>
    <script
src="//cdn.datatables.net/1.10.15/js/jquery.dataTables.min.js"></script>
    <script>
        /*
        * Change this URL to point to the domain/subdomain of where IQXWeb
is hosted.
         */
        var searchURL="//iqxdemo.co.uk/";

        /*
        * Init the data table
         */
        var table = $('#jobTable').DataTable({
            "paging": true,
            "ordering": true,
            "info": true,
            "searching": false,
            "fixedHeader": false,
            "order": [[ 3, "desc" ]],
            "columnDefs": [{
                "targets":[4],
                "visible": false
            },
            {
                "targets":[2],
                "visible": false
            }]
        });

        /* doBasicSearch
         @input: null
         @returns: null
         @desc: This will trigger the basic search, jQuery will fetch the
```

```
input
        */
        function doBasicSearch() {
            if ($('#jobsearch').val() == "") {
                getJobsOfTheDay();
            } else {
                var searchTerm = "$text="+$('#jobsearch').val();
                search(searchTerm);
            }
        }

        /* doAdvancedSearch
         @input: null
         @returns: null
         @desc: This will trigger the advanced search, jQuery will serialize
the advanced search form
        */
        function doAdvancedSearch(){
            var q = $( "#advancedSearch :input").filter(function () {
                    return !!this.value;
                }).serialize();
            search(q);
        }

        /* getFields
         @input: null
         @returns: null
         @desc: This will fetch the advanced search form fields and pass
them to generateField()
        */
        function getFields() {
            $.getJSON( searchURL+"api/jobs/fields", function( data ) {
                $.each( data.IQXResult.Row, function( index, value ){
                    generateField(value)
                });
            });
        }

        /* getSingleJob
         @input: single job vacancyID
         @returns: null
         @desc: This will fetch a single job and output it to a modal
        */
        function getSingleJob(vacID){
            $.getJSON( searchURL+"api/jobs/view/"+vacID, function( data ) {
                delete data.IQXResult.Row[0]._id

                var table="<table
```

```
class='jobTable'><tr><th> </th><th> </th></tr>";
                $.each( data.IQXResult.Row[0], function( index, value ){
                    if (index.startsWith("Q_") || index.startsWith("XQ_") ||
index.startsWith("vacancyid")) {
                        // Do Nothing
                    } else {
table=table+"<tr><td>"+toTitleCase(index)+"</td><td>"+value.replace(/(?:\r\n
|\r|\n)/g, '<br />')+"</td></tr>";
                    }
                });
                table=table+"</table>";
                $('#modalMainContent').html( table );
                $('#modalButtons').html("<a
href='"+searchURL+"#/jobsearch/results?viewjob="+vacID+"' id='applyLink'
class='button sqs-system-button sqs-editable-button'>Apply</a> <button
name='closeButton' onClick='closeDialog();return false;' id='closeButton'
class='button sqs-system-button sqs-editable-button'>Close</button>")
            });
        }

        /* search
         @input: query string, noscroll
         @returns: null
         @desc: This will send a request to the API job search and pass the
results to drawTable(i) you can pass an optional noscroll=true to stop the
page scrolling to the results table.
        */
        function search(q, noscroll){
            noscroll = noscroll || false
            $('#jobTable').slideUp();
            $('#jobsFeedback').html("<center><strong>Loading
...</strong></center>");
            $('#jobsFeedback').slideDown();
            $.getJSON( searchURL+"api/jobs/jobs?"+q, function( data ) {
                $('#searchResults').html( JSON.stringify(data, null, "\t")
);
                if (data.IQXResult.IQXFailure) {
                    resetTable();
                    $('#jobTable').slideUp();
                    $('#jobsFeedback').html("<div class='error'>There was an
error processing your request.<br />Please try the following:<ul><li>If you
are using the simple search, ensure you have typed something into the
box</li><li>If you are using the advanced search, ensure the required fields
are not empty</li></ul></div>");
                } else {
                    if (data.IQXResult.Row.length==0) {
                        resetTable();
                        $('#jobTable').slideUp();
```

```
                        $('#jobsFeedback').html("<div class='info'>Your
search returned 0 jobs.</div>");
                    } else {
                        resetTable();
                        drawTable(data.IQXResult.Row);
                        if (noscroll == false) {
                            gotoResults();
                        }
                        $('#jobsFeedback').slideUp();
                        $('#jobTable').slideDown();
                    }
                }
            });
        }

        /* getJobsOfTheDay
         @input: null
         @returns: Jobs of the Day
         @desc: This will trigger the search API with a request to return
all jobs with tag "Job of the Day"
        */
        function getJobsOfTheDay(){
            var q="jobtype=All&department=All&Q_V_JOD=Job%20of%20the%20day"
            return search(q, true)
        }

        /* resetTable
         @input: null
         @returns: null
         @desc: This will empty the job search table
        */
        function resetTable(){
            table.clear().draw();
        }

        /* drawTable
         @input: data
         @returns: null
         @desc: This will prepare each row for generation
        */
        function drawTable(data) {
            for (var i = 0; i < data.length; i++) {
                drawRow(data[i]);
            }
        }

        /* drawRow
         @input: rowData
```

```
         @returns: null
         @desc: This will generate each table row and output the html
        */
        function drawRow(rowData) {
            table.row.add(
                [ rowData.position, rowData.jobtype, rowData.branch,
changeDateFormat(rowData.startdate), rowData.vacancyid ] )
            .draw();
        }

        /* changeDateFormat
         @input: date
         @returns: date
         @desc: This will take a date in format of yyyy-mm-dd and convert it
to dd/mm/yyyy
        */
        function changeDateFormat(oDate){
            var dateAr = oDate.split('-');
            var newDate = dateAr[2] + '/' + dateAr[1] + '/' + dateAr[0];
            return newDate; // returns dd/mm/yyyy
        }

        /* generateField
         @input: fieldData
         @returns: null
         @desc: This will generate form fields based on the data type
        */
        function generateField(fieldData){
            if (fieldData.search) {
                switch(fieldData.type) {
                    case "string":
                        $('#advancedFields').append("<label
for='"+fieldData.name+"'>"+fieldData.caption+"</label><br><input type='text'
id='"+fieldData.name+"' name='"+fieldData.name+"' class='advanced-field-
element field-control' placeholder='"+fieldData.caption+"'><br />");
                    break;
                    case "select":
                        var selectBox="<label
for='"+fieldData.name+"'>"+fieldData.caption+"</label><br><select
id='"+fieldData.name+"' name='"+fieldData.name+"' class='advanced-field-
element field-control' placeholder='"+fieldData.caption+"'>";
                        selectBox=selectBox+"<option value=''
selected>Select Filter</option>";
                        $.each( fieldData.choices, function( index, value ){
                            selectBox=selectBox+"<option
value='"+value+"'>"+value+"</option>";
                        });
                        selectBox=selectBox+"</select><br />";
```

```
                        $('#advancedFields').append(selectBox);
                    break;
                    case "date":
                        $('#advancedFields').append("<label
for='"+fieldData.name+"'>"+fieldData.caption+"</label><br><input type='date'
id='"+fieldData.name+"' name='"+fieldData.name+"' class='advanced-field-
element field-control' placeholder='"+fieldData.caption+"'><br />");
                    break;

                    case "multiselect":
                        var selectBox="<label
for='"+fieldData.name+"'>"+fieldData.caption+"</label><br><select multiple
id='"+fieldData.name+"' name='"+fieldData.name+"' class='advanced-field-
element field-control' placeholder='"+fieldData.caption+"'>";
                        $.each( fieldData.choices, function( index, value ){
                            selectBox=selectBox+"<option
value='"+value+"'>"+value+"</option>";
                        });
                        selectBox=selectBox+"</select><br>";
                        $('#advancedFields').append(selectBox);
                    break;
                    default:
                        $('#advancedFields').append("<label
for='"+fieldData.name+"'>"+fieldData.caption+"</label><br><input type='text'
id='"+fieldData.name+"' name='"+fieldData.name+"' class='advanced-field-
element field-control' placeholder='"+fieldData.caption+"'/><br />");
                    break;
                }
            }
        }

        /* gotoResults
         @input: null
         @returns: null
         @desc: This will animate the scroll down to the results table.
        */
        function gotoResults(){
            $("html, body").animate({ scrollTop:
$('#jobTable_wrapper').offset().top }, 1000);
        }

        /* viewJobDetails
         @input: vacancyid
         @returns: null
         @desc: this will open the modal window and pass the job's vacancyid
to getSingleJob()
        */
        function viewJobDetails(vacancyid){
```

```
            var modal = document.getElementById('jobModal');
            modal.style.display = "block";
            getSingleJob(vacancyid);
        }

        /* closeDialog
         @input: null
         @returns: null
         @desc: This will close and empty the modal window
        */
        function closeDialog(){
            var modal = document.getElementById('jobModal');
            modal.style.display = "none";
            $('#modalMainContent').html("");
        }

        /* toTitleCase
         @input: str
         @returns: null
         @desc: This will change the passed str to camel case.
        */
        function toTitleCase(str){
            if (str=="startdate") {
                str="Start Date";
            }
            if (str=="jobtype") {
                str="Job Type"
            }
            if (str=="contactname") {
                str="Contact Name"
            }
            if (str=="contactemail") {
                str="Contact Email"
            }
            return str.replace(/\w\S*/g, function(txt){return
txt.charAt(0).toUpperCase() + txt.substr(1).toLowerCase();});
        }

        /* showSimpleSearch
         @input: null
         @returns: null
         @desc: This will hide the advanced search and show the simple
search.
        */
        function showSimpleSearch(){
            $('#dadvancedSearch').slideUp();
            $('#DsimpleSearch').slideDown();
        }
```

```
        /* showAdvancedSearch
         @input: null
         @returns: null
         @desc: This will hide the simple search and show the advanced
search
        */
        function showAdvancedSearch(){
            $('#dadvancedSearch').slideDown();
            $('#DsimpleSearch').slideUp();
        }

        /*
         * This is used when a row in the table has been clicked on.
         */
        $('.dataTable').on('click', 'tbody tr', function() {
            var vacID=table.row(this).data();
            viewJobDetails(vacID[4]);
        })

        /*
         * Init job search.
         */
        getFields();
        getJobsOfTheDay();
    </script>
```

Example

From:
https://iqxusers.co.uk/iqxhelp/ - **IQX**

Permanent link:
https://iqxusers.co.uk/iqxhelp/doku.php?id=iqxweb:jobsearchapi&rev=1553087706

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