APIs Specification Document

Document Control Guidelines

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1. Introduction

This document will guide you how to use APIs like Check for txt files in particular folder, get master files and get log file via application programming interface (API).

2. HTTP verbs

Services tries to adhere as closely as possible to standard HTTP and REST conventions in its use of HTTP verbs.

Verb	Usage
GET	Used to retrieve a resource
POST	Used to create a new resource or initiate an Activiti business process. Will return new resource location if successful.

3. HTTP status codes

Services tries to adhere as closely as possible to standard HTTP and REST conventions in its use of HTTP status codes.

Status Code	Usage
200 OK	Standard response for successful HTTP requests. The actual response will depend on the request method used. In a GET request, the response will contain an entity corresponding to the requested resource. In a POST request, the response will contain an entity describing or containing the result of the action.
201 Created	The request has been fulfilled and resulted in a new resource being created.
204 No Content	The server successfully processed the request, but is not returning any content.
400 Bad Request	The server cannot or will not process the request due to something that is perceived to be a client error (e.g., malformed request syntax, invalid request message framing, or deceptive request routing).
401 Unauthorized	The HTTP 401 Unauthorized client error status response code indicates that the request has not been applied because it lacks valid authentication credentials for the target resource.
403 Forbidden	If the endpoints are secured then Basic authentication is required
404 Not Found	The requested resource could not be found but may be available again in the future. Subsequent requests by the client are permissible.

4. Base URL

4.1 Development

https://localhost:7011/api/

5. Authorization

APIs use authorization to ensure that client requests access data securely. This can involve authenticating the sender of a request and verifying that they have permission to access or manipulate the relevant data.

Authorization Type	Usage
Basic Auth	Basic authentication involves sending a verified username and password with your each request.

6. End Points (API Resources)

6.1 Check for Files

checkforfiles	
End Point	https://baseURL/file/checkforfiles
HTTP Method Type	GET
Content-Type	application/json;charset=UTF-8

This rest api endpoint will look the particular directory and pick the txt files and load them into Oracle database.

Request Path Parameter(s)

Name	Type	Remarks

Example Request

GET https://baseURL/file/checkforfiles HTTP/1.1
Content-Type: application/json;charset=UTF-8

Example Response

HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8

6.2 Get Log File

getlogfile

End Point	https://baseURL/file/getlogfile
HTTP Method Type	GET
Content-Type	application/json;charset=UTF-8

This endpoint resource enable you to get the latest log file content written by API for txt files processing.

Request Path Parameter(s)

Name	Type	Remarks

Example Request

```
GET https://baseURL/file/getlogfile HTTP/1.1
Content-Type: application/json;charset=UTF-8
```

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8

 {
  "fileName": "app-own-10.log",
  "logFilePath": "C:\\logs\\2022\\02\\app-own-10.log",
  "creationTime": "2022-02-10T08:04:33.7686172+04:00",
  "lastModifiedTime": "2022-02-10T19:32:38.3750864+04:00",
  "fileContents": [
    {
      "lineNo": 1,
      "lineContent": "2022-02-10 18:25:29.0286 | DEBUG | init main"
    },
    {
      "lineNo": 2,
      "lineContent": "2022-02-10 18:25:34.2548 | INFO | start checking directory (D:\\OracleApp) for txt files."
    },
    {
      "lineNo": 3,
      "lineContent": "2022-02-10 18:25:34.2548 | INFO | total files found in D:\\OracleApp: 2"
    },
    {
      "lineNo": 4,
      "lineContent": "2022-02-10 18:25:34.2548 | INFO | starting processing file Test123.txt"
    },
    {
      "lineNo": 5,
      "lineContent": "2022-02-10 18:25:34.2548 | INFO | creating master file record in database."
    },
    {
      "lineNo": 6,
      "lineContent": "2022-02-10 18:25:35.9643 | INFO | master file record created in database with file id: 41."
    },
    {
      "lineNo": 7,
      "lineContent": "2022-02-10 18:25:35.9643 | INFO | start reading and saving content for file Test123.txt."
    },
    {
      "lineNo": 8,
      "lineContent": "2022-02-10 18:25:36.0144 | INFO | finished reading file Test123.txt."
    },
    {
      "lineNo": 9,
      "lineContent": "2022-02-10 18:25:36.0144 | INFO | finished processing file Test123.txt"
    },
    {
      "lineNo": 10,
      "lineContent": "2022-02-10 18:25:36.0144 | INFO | starting processing file Test1234.txt2"
    },
    {
      "lineNo": 11,
      "lineContent": "2022-02-10 18:25:36.0203 | INFO | skipped file Test1234.txt2 because it is not txt file."
    },
    {
      "lineNo": 12,
      "lineContent": "2022-02-10 18:25:36.0203 | INFO | finished checking directory (D:\\OracleApp) for txt files."
    }
  ]
}
```

6.3 Download Log File

downloadlogfile

End Point	https://baseURL/file/downloadlogfile
HTTP Method Type	GET
Content-Type	application/json;charset=UTF-8

Endpoint to download the log file. It will return the filename with extension and file in base64 bytes.

Request Path Parameter(s)

Name	Type	Remarks

Example Request

```
GET https://baseURL/file/downloadlogfile HTTP/1.1
Content-Type: application/json;charset=UTF-8
```

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8

{
  "fileName": "app-own-10.log",
  "contentType": "application/octet-stream",
  "fileContent": "MjAyMi0wMi0xMCAwODowNDozM..................."
}
```

6.4 Get File List

getlist	
End Point	https://baseURL/file/getlist
HTTP Method Type	GET
Content-Type	application/json;charset=UTF-8

It will fetch the master files from oracle database. Master file table contain the basic details about file like filename and file creation time.

Request Path Parameter(s)

Name	Type	Remarks

Example Request

```
GET https://baseURL/file/getlist HTTP/1.1
Content-Type: application/json;charset=UTF-8
```

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8

[
  {
    "id": 22,
    "fileName": "Test1234.txt2",
    "fileCreationTime": "2022-02-09T21:39:06.096359",
    "recordCreationTime": "2022-02-09T22:01:22.623",
    "recordCreatedBy": "SYSTEM"
  },
  {
    "id": 18,
    "fileName": "Test123.txt",
    "fileCreationTime": "2022-02-09T21:38:55.589008",
    "recordCreationTime": "2022-02-09T21:53:52.238",
    "recordCreatedBy": "SYSTEM"
  },
  {
    "id": 21,
    "fileName": "Test123.txt",
    "fileCreationTime": "2022-02-09T21:38:55.589008",
    "recordCreationTime": "2022-02-09T22:01:22.535",
    "recordCreatedBy": "SYSTEM"
  },
  {
    "id": 41,
    "fileName": "Test123.txt",
    "fileCreationTime": "2022-02-10T18:25:15.956027",
    "recordCreationTime": "2022-02-10T18:25:35.823",
    "recordCreatedBy": "SYSTEM"
  },
  {
    "id": 23,
    "fileName": "Test123.txt",
    "fileCreationTime": "2022-02-09T22:16:59.997313",
    "recordCreationTime": "2022-02-09T22:17:18.249",
    "recordCreatedBy": "SYSTEM"
  }
]
```

6.5 Get File Content

getfilecontent	
End Point	https://baseURL/file/getfilecontent/{fileId}
HTTP Method Type	GET
Content-Type	application/json;charset=UTF-8

It will return the file content from oracle database against fileId which will be passed as path parameter.

Request Path Parameter(s)

Name	Type	Remarks
fileId	Int	

Example Request

```
GET https://baseURL/file/getfilecontent/23 HTTP/1.1
Content-Type: application/json;charset=UTF-8
```

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8

[
  {
    "id": 30,
    "fileId": 23,
    "lineNo": 1,
    "lineContent": "[HEADER]",
    "recordCreationTime": "2022-02-09T22:17:18.314",
    "recordCreatedBy": "SYSTEM"
  },
  {
    "id": 31,
    "fileId": 23,
    "lineNo": 2,
    "lineContent": "A100=2389",
    "recordCreationTime": "2022-02-09T22:17:18.343",
    "recordCreatedBy": "SYSTEM"
  },
  {
    "id": 32,
    "fileId": 23,
    "lineNo": 3,
    "lineContent": "A102=1234567890",
    "recordCreationTime": "2022-02-09T22:17:18.344",
    "recordCreatedBy": "SYSTEM"
  },
  {
    "id": 33,
    "fileId": 23,
    "lineNo": 4,
    "lineContent": "A104=5A-H247574",
    "recordCreationTime": "2022-02-09T22:17:18.345",
    "recordCreatedBy": "SYSTEM"
  },
  {
    "id": 34,
    "fileId": 23,
    "lineNo": 5,
    "lineContent": "A105=0",
    "recordCreationTime": "2022-02-09T22:17:18.345",
    "recordCreatedBy": "SYSTEM"
  },
  {
    "id": 35,
    "fileId": 23,
    "lineNo": 6,
    "lineContent": "B100=1",
    "recordCreationTime": "2022-02-09T22:17:18.346",
    "recordCreatedBy": "SYSTEM"
  },
  {
    "id": 36,
    "fileId": 23,
    "lineNo": 7,
    "lineContent": "C100=21/02/2021 19:32:1",
    "recordCreationTime": "2022-02-09T22:17:18.346",
    "recordCreatedBy": "SYSTEM"
  },
  {
    "id": 37,
    "fileId": 23,
    "lineNo": 8,
    "lineContent": "D9999=END OF FILE",
    "recordCreationTime": "2022-02-09T22:17:18.346",
    "recordCreatedBy": "SYSTEM"
  },
  {
    "id": 38,
    "fileId": 23,
    "lineNo": 9,
    "lineContent": "[ENDOFFILE]",
    "recordCreationTime": "2022-02-09T22:17:18.347",
    "recordCreatedBy": "SYSTEM"
  }
]
```