APIs Specification Document

Document Control Guidelines

Version: 1.0

Date: 10-Feb-2022

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| **Version control** | | | |
| Version Number | Date issued | Author | **Update information** |
| V1.0 | 10-02-2022 | Umer Farooque | First published version |
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# 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).

# HTTP verbs

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

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| 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. |

# HTTP status codes

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

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| 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. |

# Base URL

# Development

https://localhost:7011/api/

# 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.

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

# End Points (API Resources)

# Check for Files

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| **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. |

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| **Request Path Parameter(s)** |
| |  |  |  | | --- | --- | --- | | Name | Type | Remarks | |  |  |  | |

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

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

# Get Log File

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| **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. |

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| **Request Path Parameter(s)** |
| |  |  |  | | --- | --- | --- | | Name | Type | Remarks | |  |  |  | |

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| **Example Request** |
| GET https://baseURL/file/getlogfile HTTP/1.1  Content-Type: application/json;charset=UTF-8 |

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| **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."  }  ]  } |

# Download Log File

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| **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. |

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| **Request Path Parameter(s)** |
| |  |  |  | | --- | --- | --- | | Name | Type | Remarks | |  |  |  | |

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| **Example Request** |
| GET https://baseURL/file/downloadlogfile HTTP/1.1  Content-Type: application/json;charset=UTF-8 |

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| **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...................."  } |

# Get File List

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| **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. |

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| **Request Path Parameter(s)** |
| |  |  |  | | --- | --- | --- | | Name | Type | Remarks | |  |  |  | |

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| **Example Request** |
| GET https://baseURL/file/getlist HTTP/1.1  Content-Type: application/json;charset=UTF-8 |

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| **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"  }  ] |

# Get File Content

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| **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. |

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| **Request Path Parameter(s)** |
| |  |  |  | | --- | --- | --- | | Name | Type | Remarks | | fileId | Int |  | |

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

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| **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"  }  ] |