text divider

REST API Specification

for

NASA Maestro Format Test Tool

**Version 1.0**

**Prepared by:**

**NASA TEAM 1**

**University of Maryland Global Campus**

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**Authors**

* Alberto Bonfiglio
* Beatrice Oluwabuyi
* Jacquetta Reid
* Kenya Foster
* Rick Stuart
* Tiezheng Yuan

**Revision History**

|  |  |  |
| --- | --- | --- |
| Date | Reason for Update | Version |
| 03/08/2020 | Initial Document | 1.0 |
| 03/15/2020 | Added Image Comparison | 2.0 |
| 03/22/2020 | Update API to Node | 3.0 |

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# GET

## Get Comparison Image

Returns a PNG that highlights the differences between the two previously provided images.

### Request

|  |  |
| --- | --- |
| **Method** | **URL** |
| **GET** | <hostname><port>/api/docx/getDiffImage |

|  |  |
| --- | --- |
| **Parameters** | **Values** |
| Integer | Session ID |

### Response

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | Response will be an object containing the PNG file that highlights the differences between the two provided images. |
| 404 | File not converted successfully. |
| 500 | Session not found |

## Get Posted Image

Returns one of the converted files provided when the users session is started. The file has been converted to an image.

### Request

|  |  |
| --- | --- |
| **Method** | **URL** |
| **GET** | <hostname><port>/api/docx/getImage |

|  |  |
| --- | --- |
| **Parameters** | **Values** |
| Integer | Session ID |
| Integer | Index |

### Response

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | Response will be an object containing the PNG of the item at the provided index. |
| 404 | File not found. |
| 500 | Session not found. |

## Get Comparison Image as a Byte Stream

Returns a PNG that highlights the differences between the two previously provided images as a byte stream.

### Request

|  |  |
| --- | --- |
| **Method** | **URL** |
| **GET** | <hostname><port>/api/docx/getDiffImageStream |

|  |  |
| --- | --- |
| **Parameters** | **Values** |
| Integer | Session ID |

### Response

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | Response will be an object containing the PNG file that highlights the differences between the two provided images as a byte stream. |
| 404 | File not converted successfully. |
| 500 | Session not found |

## Get API Main Page (To Be Developed)

Returns the main page of the API.

### Request

|  |  |
| --- | --- |
| **Method** | **URL** |
| **GET** | <hostname><port> |

|  |  |
| --- | --- |
| **Parameters** | **Values** |
|  |  |

### Response

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | Main Page of the API |
| 404 | Page not found. |

## Get the Help Page of API (To Be Developed)

Returns the API’s help page.

### Request

|  |  |
| --- | --- |
| **Method** | **URL** |
| **GET** | <hostname><port>/help |

|  |  |
| --- | --- |
| **Parameters** | **Values** |
|  |  |

### Response

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | Help page of the API |
| 404 | Page not found. |

# POST

## Validate a .docx File

Returns a Boolean depending on the validity of a provided .docx file.

### Request

|  |  |
| --- | --- |
| **Method** | **URL** |
| **POST** | <hostname><port>/api/docx/validate |

|  |  |
| --- | --- |
| **Parameters** | **Values** |
| DOCX | DOCX file |

### Response

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | Returns a Boolean true if the provided file is a valid MS .docx file and false if it is not. |
| 404 | Validation failed. |

## Compare two DOCX files

Compares two DOCX files and returns the success status, matching statistics, converted image sizes, pixel differences, and links to the produced images.

### Request

|  |  |
| --- | --- |
| **Method** | **URL** |
| **POST** | <hostname><port>/api/docx/checkDifference |

|  |  |
| --- | --- |
| **Parameters** | **Values** |
| DOCX | File one |
| DOCX | File two |

### Response

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | Returns a JSON object with success status, identical status, converted Image sizes, pixel difference, percent difference, and links to produced image links |
| 404 | Image comparison failed. |
| 409 | Invalid provided documents. |