**Brother API**

* Main Objective
  + Simplify Existing Interface
  + Wrap XML schema in Jason
  + Eliminate Server development
  + Eliminate need to Learn BSI to create XML Schema
* Main Components
  + Printer Panel
  + Node Server
  + User App(website)

API Call

|  |  |  |
| --- | --- | --- |
| **User App(website)**  Enter the email and press  button to post it | **Node Server**  Start the server and will serve the website  Get the data from website and alter the data with current Json file  Converts the High Level Json Data in detailed XML  API Call  Post Xml Schema to Printer  API Call  Converts the High Level Json Data in detailed XML with given email and Post Xml Schema to Printer  API Call | **Printer Panel**  Press the “solution”  Button to connect with server and get data  Open a textbox to type an email if email is not entered in website or shows an “OK” button if you already provided email address  Scan Doc and send to Email |

**User App(website):**

* Create the form with field email, resolution, Color Mode, File Type, Scan Tray
* By Submiting the form you send the email and etc. fields data you want to alter with the default Json file.
* Submit button makes and ajec call and with Use of Ajax, it will send the email and other fields data to Node js application.

For example:-

$.ajax({  
 url: **'/api/scanToEmail/add'**,  
 type: **'POST'**,  
 data: {  
 data: JSON.stringify({  
 **"ScanToEmail"**: data  
 })  
 },  
 success: **function** (data) {  
 $(**'#Destination'**).val(**null**);  
 }  
})

* Using POST/ SEND JSON we can also upload the json file or send json data to the API

Example:-

{

"ScanToEmail": {

"Destination": "Test@Test.com",

"ScanTray": "ADF",

"ColorMode": "Color",

"Resolution": "Normal",

"FileType": "PDF"

}

}

**Node Server:**

* Parse Json data to create detailed XML (As and example: Automates the the process of creating xml based on the data of email and other fields provided in xml or not)
* Post XML schema on request from printer

**Printer Panel:**

* Enter the Endpoint URL on Printer’s webAPP.
* Click on the solution button on Printer’s Panel to make and connect Printer with the Node server

**Swagger**:

* For All EndPoint’s you can try out at ./api-docs/.
* It will provide you Documention with UI to try out api’s.

**API For Scan to Email:**

* ‘./api/scanToEmail/add’ [POST]

Will add the email json to Database in following format

Example:-

{

"ScanToEmail": {

"Destination": "Test@Test.com",

"ScanTray": "ADF",

"ColorMode": "Color",

"Resolution": "Normal",

"FileType": "PDF"

}

}

* ‘./api/scanToEmail’ [POST]

Will render json to xml

For example

If user provide email address then it will send xml

<?xml version="1.0" encoding="utf-8"?>

<SerioCommands version="1.2">

<DisplayForm>

<Script>

<![CDATA[<UiScreen>

<AutoTransition>90</AutoTransition>

<Operations><Op type="Submit" action="./api/scanToEmail/sendToMail">

<Label imgsrc="submit.jpg">Submit</Label></Op>

<Op type="Back" action="./api/scanToEmail">

<Label imgsrc="back.jpg">Back</Label></Op>

</Operations><IoScreen><IoObject>

<Title>Welcome To BSI</Title>

<Message>Press OK or START to Scan and send email.</Message></IoObject>

</IoScreen></UiScreen>]]>

</Script>

</DisplayForm>

</SerioCommands>

If user not provide email address then it will send xml

<?xml version="1.0" encoding="utf-8"?>

<SerioCommands version="1.2">

<DisplayForm>

<Script><![CDATA[<UiScreen>

<IoScreen>

<IoObject>

<TextArea id="email">

<Mask>false</Mask>

<LetterTypes>

<LetterType>LowerCase</LetterType>

<LetterType>Numeric</LetterType>

<LetterType>Glyph</LetterType>

</LetterTypes>

<Title>Enter Email Address</Title>

</TextArea>

</IoObject>

</IoScreen>

<Title>Email Submit</Title>

<Operations>

<Op action="./api/scanToEmail/email" type="Submit"/>

</Operations>

</UiScreen>]]></Script>

</DisplayForm>

</SerioCommands>

* ‘./api/scanToEmail/email’ [POST]
* This will render the xml after user enter the email address on printer touch

<?xml version="1.0" encoding="utf-8"?>

<SerioCommands version="1.0">

<IoScanAndSend>

<TxProfiles>

<Smtp>

<Destination>Given Email</Desitnation>

</Smtp>

</TxProfiles>

<ScanTray>ADF</ScanTray>

<ColorMode>Color</ColorMode>

<Resolution>Normal</Resolution>

<FileType>PDF</FileType>

<FileNameFixed>true</FileNameFixed>

<JobFinAckUrl>http://example.bsi.com/jobfin</JobFinAckUrl>

</IoScanAndSend>

<DisplayInfo>

<Script><![CDATA[<?xml version="1.0" encoding="UTF-8"?>

<UiScreen >

<NullScreen></NullScreen>

</UiScreen>

]]></Script>

</DisplayInfo>

</SerioCommands>