I need to send request to call a python program from web page to apache server for backend running. The python program involved 'import numpy' and is coded as follows :

1.) untitled1.py

#!C:\Program Files (x86)\Microsoft Visual Studio\Shared\Python37\_64\python.exe

import sys

import cgi, cgitb

import numpy

from PIL import Image

form = cgi.FieldStorage()

A\_img = form.getvalue('A')

B\_img = form.getvalue('B')

C\_img = form.getvalue('C')

textList = ["One", "Two", "Three", "Four", "Five"]

outF = open("myOutFile.txt", "w")

for line in textList:

# write line to output file

outF.write(line)

outF.write("\n")

im1 = Image.open(A\_img)

a = np.array(im1, dtype='uint8')

outF.write(a)

outF.close()

The python program is called by the web page Web.html and has been sent to Apache for processing by AJAX XMLhttprequest as follows :

2.) Web.html

<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />

<html><head>

<title>AIstain</title>

<style>

input.file-upload{

display:none;

}

label.select-image1{

background-color: #4CAF50;

border: none;

color: white;

padding: 10px 22px;

text-align: center;

text-decoration: none;

display: inline-block;

font-size: 16px;

margin: 4px 2px;

cursor: pointer;

}

label.select-image2{

background-color: RED;

border: none;

color: white;

padding: 10px 22px;

text-align: center;

text-decoration: none;

display: inline-block;

font-size: 16px;

margin: 4px 2px;

cursor: pointer;

}

label.select-image3{

background-color: PURPLE;

border: none;

color: white;

padding: 10px 22px;

text-align: center;

text-decoration: none;

display: inline-block;

font-size: 16px;

margin: 4px 2px;

cursor: pointer;

}

label.Transform{

background-color: BLUE;

border: none;

color: white;

padding: 15px 100px;

text-align: center;

text-decoration: none;

display: inline-block;

font-size: 16px;

margin: 4px 2px;

cursor: pointer;

}

</style>

</head>

<script language='JavaScript'> function IsEmpty() { if (document.getElementById('test1').value == '') { alert('Please enter value');} else {ProcessSimpleCGI()};}

</script>

<script type="text/javascript" language="javascript">

var loadFile1 = function(event) {

var image = document.getElementById('GFP output');

image.src = URL.createObjectURL(event.target.files[0]);

var title = document.getElementById('GFP');

title.innerHTML = event.target.files[0].name;

};

var loadFile2 = function(event) {

var image = document.getElementById('RFP output');

image.src = URL.createObjectURL(event.target.files[0]);

var title = document.getElementById('RFP');

title.innerHTML = event.target.files[0].name;

};

var loadFile3 = function(event) {

var image = document.getElementById('HE output');

image.src = URL.createObjectURL(event.target.files[0]);

var title = document.getElementById('HE');

title.innerHTML = event.target.files[0].name;

};

var Transform = function(event) {

alert('transform')

**var xmlhttp = new XMLHttpRequest();**

var GFP\_image = document.getElementById('GFP output');

var RFP\_image = document.getElementById('RFP output');

var HE\_image = document.getElementById('HE output');

**xmlhttp.open("POST", "untitled1.py", true);**

xmlhttp.onload = function (e) {

if (xmlhttp.readyState === 4) {

if (xmlhttp.status === 200) {

console.log(xmlhttp.responseText);

} else {

console.error(xmlhttp.statusText);

}

}

};

xmlhttp.onerror = function (e) {

console.error(xmlhttp.statusText);

};

**xmlhttp.setRequestHeader("Content-type", "application/x-www-form-urlencoded");**

**xmlhttp.send("A=$GFP\_image&B=$RFP\_image&C=$HE\_image");**

};

</script>

<body>

<table>

<tr>

<td style="font-family:Times New Roman; font-style:italic; font-size:36px; padding-top:24px; padding-left:80px">AIstain

</td>

</tr>

</tr>

<tr>

<tr>

<td style = "padding-left:80px; padding-top:65px">

<img id="GFP output" height="300" width="300" border="0.5px"/></img>

</td>

<td style = "padding-left:90px; padding-top:65px">

<img id="HE output" height="300" width="300" border="0.5px"/></img>

</td>

<td style = "padding-left:90px; padding-top:65px">

<img id="RFP output" height="300" width="300" border="0.5px"/></img>

</td>

</tr>

<tr>

<td style="color:#4CAF50; padding-left:80px; padding-top:13px"> Green Fluorescence Image </td>

<td style="color:PURPLE; padding-left:90px; padding-top:13px"> Brightfield H&E Image </td>

<td style="color:RED; padding-left:90px; padding-top:13px"> RED Fluorescence Image </td>

</tr>

<tr>

<td id = "GFP" style="color:#4CAF50; padding-left:80px; padding-top:13px padding-bottom:10px"></td>

<td id = "HE" style="color:PURPLE; padding-left:90px; padding-top:13px padding-bottom:10px"></td>

<td id ="RFP" style="color:RED; padding-left:90px; padding-top:13px padding-bottom:10px"></td>

</tr>

<tr>

<td style="padding-left:80px; padding-top:10px">

<label class="select-image1"> Select Image<input class='file-upload' input type='file' id='GFP' name='GFP Image' accept='image/png, image/jpeg, image/tiff, image/nd2' onchange='loadFile1(event)'></label>

</td>

<td style="padding-left:90px; padding-top:10px">

<label class="select-image3"> Select Image<input class='file-upload' input type='file' id='HE' name='HE Image' accept='image/png, image/jpeg, image/tiff, image/nd2' onchange='loadFile3(event)'></label>

</td>

<td style="padding-left:90px; padding-top:10px">

<label class="select-image2"> Select Image<input class='file-upload' input type='file' id='RFP' name='RFP Image' accept='image/png, image/jpeg, image/tiff, image/nd2' onchange='loadFile2(event)'></label>

</td>

</tr>

<tr>

<td style="position:relative;left:500px; padding-top:60px">

<label class="Transform">Image Synthesis<input class='file-upload' onclick='Transform()'></button></label>

</td>

</tr>

</table>

</body>

</html>

Error occurs when the button is pressed and command untitled1.py is sent back for processing. The following errors always take place. It states that 'numpy module is not found' even most updated version of numpy has been installed through pip install under the directory C:\Program Files (x86)\Microsoft Visual Studio\Shared\Python37\_64.

Error :

[Sun Oct 25 20:28:55.483585 2020] [cgi:error] [pid 16084:tid 1884] [client ::1:60017] End of script output before headers: untitled1.py, referer: http://localhost/Web.html

[Sun Oct 25 20:28:55.483585 2020] [cgi:error] [pid 16084:tid 1884] [client ::1:60017] AH01215: Traceback (most recent call last):\r: C:/xampp/htdocs/untitled1.py, referer: http://localhost/Web.html

[Sun Oct 25 20:28:55.483585 2020] [cgi:error] [pid 16084:tid 1884] [client ::1:60017] AH01215: File "C:/xampp/htdocs/untitled1.py", line 7, in <module>\r: C:/xampp/htdocs/untitled1.py, referer: http://localhost/Web.html

[Sun Oct 25 20:28:55.483585 2020] [cgi:error] [pid 16084:tid 1884] [client ::1:60017] AH01215**: import numpy\r: C:/xampp/htdocs/untitled1.py, referer: http://localhost/Web.html**

[Sun Oct 25 20:28:55.483585 2020] [cgi:error] [pid 16084:tid 1884] [client ::1:60017] AH01215: ModuleNotFoundError: No module named 'numpy'\r: C:/xampp/htdocs/untitled1.py, referer: http://localhost/Web.html

Please have a look on it and see if help can be solved for the problem !

OS : Windows 10

Python version : 3.7.5 (python is installed with Anaconda)

numpy version : 1.19 (additional numpy is installed through command python -m pip install --user numpy under the directory

C:\Program Files (x86)\Microsoft Visual Studio\Shared\Python37\_64.

Besides, when I try to change the shebang on untitled.py to #C:\Users\Public\Anaconda\envs\Second\lib, the following error occurs :

ImportError: DLL load failed: The specified module could not be found.\r: C:/xampp/htdocs/untitled1.py, referer: http://localhost/Web.html

[Sat Oct 24 20:49:11.889481 2020] [cgi:error] [pid 7984:tid 1888] [client ::1:52685] AH01215: \r: C:/xampp/htdocs/untitled1.py, referer: http://localhost/Web.html

[Sat Oct 24 20:49:11.889481 2020] [cgi:error] [pid 7984:tid 1888] [client ::1:52685] AH01215: During handling of the above exception, another exception occurred:\r: C:/xampp/htdocs/untitled1.py, referer: http://localhost/Web.html

[Sat Oct 24 20:49:11.889481 2020] [cgi:error] [pid 7984:tid 1888] [client ::1:52685] AH01215: \r: C:/xampp/htdocs/untitled1.py, referer: http://localhost/Web.html

[Sat Oct 24 20:49:11.889481 2020] [cgi:error] [pid 7984:tid 1888] [client ::1:52685] AH01215: Traceback (most recent call last):\r: C:/xampp/htdocs/untitled1.py, referer: http://localhost/Web.html

[Sat Oct 24 20:49:11.889481 2020] [cgi:error] [pid 7984:tid 1888] [client ::1:52685] AH01215: File "C:/xampp/htdocs/untitled1.py", line 7, in <module>\r: C:/xampp/htdocs/untitled1.py, referer: http://localhost/Web.html

[Sat Oct 24 20:49:11.889481 2020] [cgi:error] [pid 7984:tid 1888] [client ::1:52685] AH01215: import numpy\r: C:/xampp/htdocs/untitled1.py, referer: http://localhost/Web.html

[Sat Oct 24 20:49:11.889481 2020] [cgi:error] [pid 7984:tid 1888] [client ::1:52685] AH01215: File "C:\\Users\\Public\\Anaconda\\envs\\Second\\lib\\site-packages\\numpy\\\_\_init\_\_.py", line 142, in <module>\r: C:/xampp/htdocs/untitled1.py, referer: http://localhost/Web.html

[Sat Oct 24 20:49:11.889481 2020] [cgi:error] [pid 7984:tid 1888] [client ::1:52685] AH01215: from . import core\r: C:/xampp/htdocs/untitled1.py, referer: http://localhost/Web.html

[Sat Oct 24 20:49:11.889481 2020] [cgi:error] [pid 7984:tid 1888] [client ::1:52685] AH01215: File "C:\\Users\\Public\\Anaconda\\envs\\Second\\lib\\site-packages\\numpy\\core\\\_\_init\_\_.py", line 54, in <module>\r: C:/xampp/htdocs/untitled1.py, referer: http://localhost/Web.html

[Sat Oct 24 20:49:11.889481 2020] [cgi:error] [pid 7984:tid 1888] [client ::1:52685] AH01215: raise ImportError(msg)\r: C:/xampp/htdocs/untitled1.py, referer: http://localhost/Web.html

[Sat Oct 24 20:49:11.889481 2020] [cgi:error] [pid 7984:tid 1888] [client ::1:52685] AH01215: ImportError: \r: C:/xampp/htdocs/untitled1.py, referer: http://localhost/Web.html

[Sat Oct 24 20:49:11.889481 2020] [cgi:error] [pid 7984:tid 1888] [client ::1:52685] AH01215: \r: C:/xampp/htdocs/untitled1.py, referer: http://localhost/Web.html

[Sat Oct 24 20:49:11.889481 2020] [cgi:error] [pid 7984:tid 1888] [client ::1:52685] AH01215: IMPORTANT: PLEASE READ THIS FOR ADVICE ON HOW TO SOLVE THIS ISSUE!\r: C:/xampp/htdocs/untitled1.py, referer: http://localhost/Web.html

[Sat Oct 24 20:49:11.889481 2020] [cgi:error] [pid 7984:tid 1888] [client ::1:52685] AH01215: \r: C:/xampp/htdocs/untitled1.py, referer: http://localhost/Web.html

[Sat Oct 24 20:49:11.889481 2020] [cgi:error] [pid 7984:tid 1888] [client ::1:52685] AH01215: Importing the numpy c-extensions failed.\r: C:/xampp/htdocs/untitled1.py, referer: http://localhost/Web.html

[Sat Oct 24 20:49:11.889481 2020] [cgi:error] [pid 7984:tid 1888] [client ::1:52685] AH01215: - Try uninstalling and reinstalling numpy.\r: C:/xampp/htdocs/untitled1.py, referer: http://localhost/Web.html

[Sat Oct 24 20:49:11.889481 2020] [cgi:error] [pid 7984:tid 1888] [client ::1:52685] AH01215: - If you have already done that, then:\r: C:/xampp/htdocs/untitled1.py, referer: http://localhost/Web.html

[Sat Oct 24 20:49:11.889481 2020] [cgi:error] [pid 7984:tid 1888] [client ::1:52685] AH01215: 1. Check that you expected to use Python3.7 from "C:\\Users\\Public\\Anaconda\\envs\\Second\\python.exe",\r: C:/xampp/htdocs/untitled1.py, referer: http://localhost/Web.html

[Sat Oct 24 20:49:11.889481 2020] [cgi:error] [pid 7984:tid 1888] [client ::1:52685] AH01215: and that you have no directories in your PATH or PYTHONPATH that can\r: C:/xampp/htdocs/untitled1.py, referer: http://localhost/Web.html

[Sat Oct 24 20:49:11.889481 2020] [cgi:error] [pid 7984:tid 1888] [client ::1:52685] AH01215: interfere with the Python and numpy version "1.18.1" you're trying to use.\r: C:/xampp/htdocs/untitled1.py, referer: http://localhost/Web.html

[Sat Oct 24 20:49:11.889481 2020] [cgi:error] [pid 7984:tid 1888] [client ::1:52685] AH01215: 2. If (1) looks fine, you can open a new issue at\r: C:/xampp/htdocs/untitled1.py, referer: http://localhost/Web.html

[Sat Oct 24 20:49:11.889481 2020] [cgi:error] [pid 7984:tid 1888] [client ::1:52685] AH01215: https://github.com/numpy/numpy/issues. Please include details on:\r: C:/xampp/htdocs/untitled1.py, referer: http://localhost/Web.html

[Sat Oct 24 20:49:11.889481 2020] [cgi:error] [pid 7984:tid 1888] [client ::1:52685] AH01215: - how you installed Python\r: C:/xampp/htdocs/untitled1.py, referer: http://localhost/Web.html

[Sat Oct 24 20:49:11.889481 2020] [cgi:error] [pid 7984:tid 1888] [client ::1:52685] AH01215: - how you installed numpy\r: C:/xampp/htdocs/untitled1.py, referer: http://localhost/Web.html

[Sat Oct 24 20:49:11.889481 2020] [cgi:error] [pid 7984:tid 1888] [client ::1:52685] AH01215: - your operating system\r: C:/xampp/htdocs/untitled1.py, referer: http://localhost/Web.html

[Sat Oct 24 20:49:11.889481 2020] [cgi:error] [pid 7984:tid 1888] [client ::1:52685] AH01215: - whether or not you have multiple versions of Python installed\r: C:/xampp/htdocs/untitled1.py, referer: http://localhost/Web.html

[Sat Oct 24 20:49:11.889481 2020] [cgi:error] [pid 7984:tid 1888] [client ::1:52685] AH01215: - if you built from source, your compiler versions and ideally a build log\r: C:/xampp/htdocs/untitled1.py, referer: http://localhost/Web.html

[Sat Oct 24 20:49:11.889481 2020] [cgi:error] [pid 7984:tid 1888] [client ::1:52685] AH01215: \r: C:/xampp/htdocs/untitled1.py, referer: http://localhost/Web.html

I try to uninstall and reinstall numpy again ! But same error still happens, so I need to call for your help !