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How to enroll fingerprint on BioMini via BioStar 2 API

You can enroll fingerprint on BioMini by calling BioStar 2 API.

To utilize BioMini with BioStar 2 API, you should download BioMini SDK and install it. If you need BioMini SDK, contact our sales team (sales_id@supremainc.com).

Step 1:

Install BioMini SDK and copy two DLL files in the path (C:\Program Files (x86)\Suprema\BioMini\bin).

- UFScanner.dll
- Suprema.UFScanner.dll

bin					
← → × ↑ 📘	> 1	This PC > Windows (C:) > Program Files (x86)	> Suprema > BioMini	> bin	
📌 Quick access	^	Name ^	Date modified 3/10/2017 9:01 PM	Type TLB File	Size 27 KB
Desktop	1	Suprema.UFMatcher.dll	4/10/2017 4:56 PM	Application extens	24 KB
🕹 Downloads	*	Suprema.UFScanner.dll	4/10/2017 4:56 PM	Application extens	44 KB
Documents		JFMatcher.dll	4/10/2017 5:42 PM	Application extens	2,034 KB
Distures		UFScanner.dll	4/10/2017 5:47 PM	Application extens	4,998 KB
Pictures	<i>*</i> •	UFScanner_IZZIX.dll	3/10/2017 9:01 PM	Application extens	52 KB

Paste the copied files to your project.

· · ↑ 📙 «	User	s > jypark > Documents > Visual Studio 20	13 > Projects > BioM	ini with BioStar 2 API >	BioMini with BioStar 2 API > bin > Deb
		Name	Date modified	Туре	Size
Quick access		BioMini with BioStar 2 API	1/3/2018 10:42 AM	Application	16 KB
Desktop	*	BioMini with BioStar 2 API.exe	1/3/2018 10:10 AM	XML Configuratio	1 KB
Downloads	*	BioMini with BioStar 2 API	1/3/2018 10:42 AM	Program Debug D	22 KB
Documents	e	BioMini with BioStar 2 API.vshost	1/3/2018 10:42 AM	Application	24 KB
Pictures	*	BioMini with BioStar 2 API.vshost.exe	1/3/2018 10:10 AM	XML Configuratio	1 KB
2018상반기		Newtonsoft.Json.dll	10/2/2013 12:10 PM	Application extens	399 KB
BioMini WebAPI		Suprema.UFScanner.dll	4/10/2017 4:56 PM	Application extens	44 KB
A 7 81 A.		S UFScanner.dll	4/10/2017 5:47 PM	Application extens	4,998 KB

Step 2:

In your project, add the DLL titled **"Suprema.UFScanner"** as reference and add the namespace **Suprema**.



Step 3:

Declare variables and constant. Then, initialize and configure BioMini.

14 mame	space BioMini_WebAPI
15 {	
16 🖻 🕕	class Program
17	(
18	const int MAX_TEMPLATE_SIZE = 384;
19	public static string sessionID;
20	public static UFScannerManager ScannerManager;
21	public static UFS_STATUS ufs_res;
22	public static UFScanner Scanner;
23	public static int nScannerNumber;
24	
25	
26	static void Main(string[] args)
27	{
28	Program test = new Program();
29	
30	test.BioMini();
31	test.Menu();
32)
33	
34 🗄	public void BioMini()
35	
36	//Initializing
37	ScannerManager = new UFScannerManager(null);
38	ufs_res = ScannerManager.Init();
39	nScannerNumber = ScannerManager.Scanners.Count;
40	
41	//Configuring BioMini
42	Scanner = ScannerManager.Scanners[0];
43	Scanner.Timeout = 7000; // 7 seconds
44	Scanner.TemplateSize = MAX_TEMPLATE_SIZE; // Suprema Access Control devices all use templates having a size of 384 bytes. 1 fingerprint should have 2 templates each.
45	<pre>Scanner.DetectCore = false;</pre>
46)
47	

• Line 18, 44: The size of fingerprint template is 384 bytes.

Step 4:

Create new function in order to enroll fingerprint on BioMini.

3/4

209 🖻	static async void EnrollFingerTask()
10	
11	if (sessionID == null)
12	
13	Console.WriteLine("You must log in first!"):
14	return
16	t la caracteria de la car
10	r.
10	
10	CookieContainer cookieContainer = new CookieContainer();
18	
19	HttpClientHandler handler = new HttpClientHandler();
20	handler.CookieContainer = cookieContainer:
21	
22	<pre>HttpClient httpClient = new HttpClient(handler);</pre>
23	
24	<pre>HttpClient client = new HttpClient(handler);</pre>
25	conkieContainer Add(new Uri("http://127.0.0.1.8795") new Conkie("http://inscioud-session-id" sessionID));
26	
20	Concele Writeling("Input Near ID: ");
21	
28	string userinputib = console.ReadLine();
29	
30	string resourceAddress = "http://127.0.0.1:8795/v2/users" + userInputID + "/fingerprint_templates";
31	
32	// Enrolling & finger using BioMini
33	byte[] templateO = new byte[MAX_TEMPLATE_SIZE]; // 1st template array
34	byte[] template1 = new byte[MAX_TEMPLATE_SIZE]; // 2nd template array
35	int TemplateSize: // Size of the scanned fingernint. Returned when calling ExtractEy
26	int forpillonality: // onality of the compadification for particulation and the calling Extracts
30	The Enfortiguatily in duality of the scamed fingerprint, Returned when carring Extractex
37	
38	JaváScriptSerializer serializer = new JaváScriptSerializer();
39	
40	Dictionary <string, object=""> dicFinger = new Dictionary<string, object="">();</string,></string,>
241	
42	List <object> fingerprint_template_list = new List<object>();</object></object>
43	dicFinger.Add("fingerprint_template_list", fingerprint_template_list);
44	
45	Console.WriteLine("How wany fingerprints do you want to enroll?");
46	int numOfFinger = Convert.ToInt32(Console.Read.ine()); for (int dy = 0: idy = convert.ToInt32(Console.Read.ine());
48	
19	Console WriteLine("Finger #10). Scan your finger(1st template scan)", idx+1):
50	ufs_res = Scanner.ClearCaptureImagebufter(); // Clearing Duffer ufs_res = Scanner.CaptureSingleImage(); // Scans the fingerorint
52	ufs_res = Scanner.ExtractEx(MAX_TEMPLATE_SIZE, template0, out TemplateSize, out EnrollQuality); // Extracts the template from the scanned fingerprint image
53	Second Build and The second
55	ufside.writeLine(Finger #10), stan your Finger(zho template stan), tux * 1), ufsices = Stanner.(learCathurelinaseBuffer();
56	ufs_res = Scanner.CaptureSingleImage();
57	ufs_res = Scanner.ExtractEx(MAX_TEMPLATE_SIZE, template1, out TemplateSize, out EnrollQuality);
59	string sTemplateD = Convert.ToBase64String(templateD); // Converts the template data to a Base64 string. When enrolling a finger via API, the template data must be
50	<pre>string sTemplatel = Convert.ToBase64String(templatel); // encoded into a Base64 string.</pre>
12	Dictionarysstring, dynamics dicFingerprintTemplate + new Dictionarysstring, dynamics():
53	fingerprint_template_list.dd(dicFingerprintTemplate):
54	dicFingerprintTemplate["is_prepare_for_duress"] = false;
55	dicFingerprintTemplate['template['] = sTemplate(); dicFingerprintTemplate['template]' = cTemplate();
37	archuidethiurtemburtef remburtet 1 - stemburtet
68	
59 70	string payload = serializer.Serialize(dicFinger);
71	Console.WriteLine("++++++++++++++++++++++++++++++++++++
72	Console.WriteLine(payload);
74	StringContent sc = new StringContent(pavingd, Encoding.HTFR, "application/ison");
75	HttpResponseMessage httpResponse = await httpClient.PutAsync(resourceAddress, sc);
76	15 / https://paperstature.do.ws_true)
78	((ITEPRESPONSE, ISSUCCESSITEUSCOUP == (IUP)
79	Console.WriteLine("User has been created");
80	string httpResponseBody = await httpResponse.Content.ReadAsStringAsync(); Concert Widteling(httpResponseDent):
32	Console will a full ult be above and a to a full
33	else
34	
35	Console.writeLine(tope(Stion Pailed)); Console.writeLine(tope(Stion Pailed));
37)
38 }	

- Line 233~236: 1 fingerprint should have 2 templates respectively so that you need to declare two variables for storing each template.
- Line 247~267: Scan Fingerprint with BioMini. (One fingerprint with two templates)

If you would like to get overall sample code for C#, contact us (tech@supremainc.com).

From:

http://kb.supremainc.com/knowledge/ -

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