blu Beetle.ai

Advanced RegTech APIs

AN API GUIDE

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DOCUMENT CONTROL			
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Revision	**Date**	**Author**	**Role**	**Change Description**
1.0	02/08/2024	Laxmi Kesari	Business Analyst	8 APIs
2.0	04/09/2024	Laxmi Kesari	Business Analyst	1 API
3.0	13/09/2024	Laxmi Kesari	Business Analyst	Change Request

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1. BLU BEETLE.AI - REGTECH APIS

This section includes list of all RegTech APIs that need to be integrated with Third Party to serve the business requirements of Client.

Below is the list of RegTech APIs:

1. Token
2. Aadhaar Masking
3. OCR
    - Aadhar Card
    - Pan Card
    - Voter ID
    - Passport
4. Bank Statement Analysis
5. ITR Statement Analysis
6. Name Match
7. Language Translator
8. KYC Quality Check
9. Image Object Detection

The subsequent sections include details about the above-mentioned APIs.

Notation for Fields:
1. Mandatory (M)
2. Optional (O)
3. Conditional Mandatory (CM)

Service URL:

- URL: https://regtech.blubeetle.ai/
- UAT URL: https://regtech.craftsilicon.com

Note:

- **Unique ID: The Length must be 40 Characters.**

2. COMMON SERVICES

2.1 API Name: "Token"

PURPOSE:

This API is used to provide a secure, stateless method for managing API access, enhancing security and simplifying user session and permission handling.

INPUT/REQUEST PARAMETERS:

Field Name	Field Option (M/O/CM)	Data Type	Description
Client Id	M	String	This is Client ID.
Client Secret	M	String	This is Client Secret.
Grant Type	M	String	This is Grant Type.

CLICK HERE FOR SAMPLE REQUEST AND RESPONSE

2.2 API Name: "Aadhaar Redaction"

PURPOSE:

This API is used to protect the privacy and security of individuals' Aadhaar numbers by obscuring or hiding a portion of the number. Aadhaar is a unique identification number issued to Indian residents by the Unique Identification Authority of India (UIDAI).

INPUT/REQUEST PARAMETERS:

Field Name	Field Option (M/O/CM)	Data Type	Description
Corporate ID	M	String	This is Corporate ID.
Unique ID	M	String	This is Unique Id.
Aadhar Img	M	String	This is Aadhar Image.

CLICK HERE FOR SAMPLE REQUEST AND RESPONSE

2.3 API Name: "OCR"

PURPOSE:

This API is used to Optical Character Recognition (OCR) to automate data entry by extracting **Aadhaar numbers, Voter IDs, PAN card, and Passport** details from images. It processes the images and returns the extracted information in JSON format.

INPUT/REQUEST PARAMETERS:

Field Name	Field Option (M/O/CM)	Data Type	Description
Corporate ID	M	String	This is Corporate ID.
Unique ID	M	String	This is Unique Id.
Document Type	M	String	This is Request key.
Image Base64	M	String	This is Image Base64.

CLICK HERE FOR SAMPLE REQUEST AND RESPONSE

2.4 API Name: "Bank Statement Analysis"

PURPOSE:

This API is used to automate bank statement analysis using OCR and data analysis tools. It enhances fraud detection, ensures compliance, and supports financial planning. It tracks expenses, monitors cash flow, verifies creditworthiness, and generates financial reports. The API returns details such as opening and closing balances, the top 10 credit and debit transactions, and a summary of expenses in JSON format for improved financial management and decision-making.

INPUT/REQUEST PARAMETERS:

Field Name	Field Option (M/O/CM)	Data Type	Description
Corporate ID	M	String	This is Corporate ID.
Unique ID	M	String	This is Unique Id.
Bank Name	M	String	This is Bank Name.
PDF File	M	String	This is PDF File.

CLICK HERE FOR SAMPLE REQUEST AND RESPONSE

2.5 API Name: "ITR Statement Analyzer"

PURPOSE:

ITR (Income Tax Return) analysis is used to assess an individual's or business's financial health, verify income, ensure tax compliance, support credit assessments, assist in business valuations, and guide investment decisions. It is valuable for banks, financial institutions, tax professionals, investors, and legal professionals to make informed decisions based on tax filings.

INPUT/REQUEST PARAMETERS:

Field Name	Field Option (M/O/CM)	Data Type	Description
Corporate ID	M	String	This is Corporate ID.
Unique ID	M	String	This is Unique Id.
ITR Type	M	String	This is ITR Type.
ITR PDF	M	String	This is ITR PDF.

CLICK HERE FOR SAMPLE REQUEST AND RESPONSE

2.6 API Name: "Name Match"

PURPOSE:

This API is used to compare two strings or names provided by the user. It uses a string-matching algorithm to assess their similarity and returns a percentage representing how closely they match. The API includes an option to specify whether the comparison should be case-sensitive. Identify and match names across different data sets or records accurately.

INPUT/REQUEST PARAMETERS:

Field Name	Field Option (M/O/CM)	Data Type	Description
Corporate ID	M	String	This is Corporate ID.
Unique ID	M	String	This is Unique Id.
Name1	M	String	This is Name1.
Name2	M	String	This is Name2.
IsCaseSensitive	M	String	This is Case Sensitive

CLICK HERE FOR SAMPLE REQUEST AND RESPONSE

2.7 API Name: "Language Translator"

PURPOSE:

This API is used to translates text between languages and supports up to 5000 characters per request. It provides text conversion between various languages.

INPUT/REQUEST PARAMETERS:

Field Name	Field Option (M/O/CM)	Data Type	Description
Corporate ID	M	String	This is Corporate ID.
Unique ID	M	String	This is Unique Id.
Sample Text	M	String	This is Sample Text.
To Language	M	String	This is Session Id.
From Language	M	String	This is Reference Id.

CLICK HERE FOR SAMPLE REQUEST AND RESPONSE

2.8 API Name: "KYC Quality Check"

PURPOSE:

This API is used to assess image quality based on criteria such as document quality, length, height, and both vertical and horizontal dimensions. It ensures that images meet specified standards and checks if the image is readable and suitable for its intended use.

INPUT/REQUEST PARAMETERS:

Field Name	Field Option (M/O/CM)	Data Type	Description
Corporate ID	M	String	This is Corporate ID.
Unique ID	M	String	This is Unique Id.
Image	M	String	This is Image.

CLICK HERE FOR SAMPLE REQUEST AND RESPONSE

2.9 API Name: "Image Object Detection"

PURPOSE:

This API is used to Computer VisionAI for object detection to identify and classify household items from images. It simplifies inventory management and enhances user experience by providing structured JSON results, facilitating seamless integration with applications for real-time processing and analysis.

INPUT/REQUEST PARAMETERS:

Field Name	Field Option (M/O/CM)	Data Type	Description
Corporate ID	M	String	This is Corporate ID.
Unique ID	M	String	This is Unique Id.
Image	M	String	This is Image.

CLICK HERE FOR SAMPLE REQUEST AND RESPONSE

METHOD NAME	TOKEN
REQUEST METHOD NAME	POST
URL	{service-url} /api/v1/token/getkey

REQUEST	{
	
	    "client_id": "193cc033-a1eb-4d91-b20e-95e84XXXXXXX",
	
	    "client_secret": "7c5d229a-aeb6-4bcb-a09b-c4dXXXXXX",
	
	    "grant_type": "client_credentials"
	
	}

RESPONSE	{
	
	    "access_token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJmcmVzaCI6ZmFsc2UsImlhdCI6MTcyMjU3NzY2MCwianRpIjoiYjBkMzM1YWItMDllZi00MTk4LTlkNGEtNzkzNDc3ZjcwYTQzIiwidHlwZSI6ImFjY2VzcyIsInN1YiI6eyJjbGllbnRfaWQiOiIxOTNjYzAzMy1hMWViLTRkOTEtYjIwZS05NWU4NGI3ZjNkMDQiLCJjbGllbnRfc2VjcmV0IjoiN2M1ZDIyOWEtYWViNi00YmNiLWEwOWItYzRkNzhiYmZiM2FmIiwiZ3JhbnRfdHlwZSI6ImNsaWVudF9jcmVkZW50aWFscyJ9LCJuYmYiOjE3MjI1Nzc2NjAsImV4cCI6MTcyMjU3Nzg0MCwiaXNfYXBpIjp0cnVlfQ.Qjz9nSzTObIouSf_kVzNidCN3fO8PQleDtgyn733q3A",
	
	    "expires_in": 90,
	
	    "token_type": "bearer"
	
	}

METHOD NAME	AADHAR REDACTION
REQUEST METHOD NAME	POST
URL	{service-url} /api/v1/adhar/masking

REQUEST	```
	{
	
	    "CorporateID": "Craftsilicon",
	
	    "UniqueID": " **Aadhar_Redaction_demo1** ",
	
	    "addhar_img" :"Base64 String……",
	
	}
	``

Response	```
	{
	  "data": {
	    "message": "Success",
	    "response": "200",
	    "responseValue": {
	        "Image" : "base64...."
	    }
	  }
	}
	``

NAME MATCH

METHOD NAME	NAME MATCH
REQUEST METHOD NAME	POST
URL	{service-url} /api/v1/name/matching

REQUEST	{
	
	   "name1": "Vijay Dabhi",
	
	   "name2": "Dabhi Vijay",
	
	   "isCaseSensitive": true,
	
	   "CorporateID": "Craftsilicon",
	
	   "UniqueID": " **Name_Match_demo1** "
	
	}

RESPONSE	{
	  "data": {
	    "message": "Success",
	    "responseValue": {
	      "SimilarityPercentage": "100.0",
	      "String": "dabhi vijay"
	    },
	    "response": 200
	  }
	}

METHOD NAME	LANGUAGE TRANSLATOR
REQUEST METHOD NAME	POST
URL	{service-url} /api/v1/language/translator

REQUEST	{
	
	    "SampleText": "Hello, how are you?",
	
	    "ToLanguage": "en",
	
	    "FromLanguage": "hi",
	
	    "CorporateID": "Craftsilicon",
	
	    "UniqueID": " **Language_Translator_demo1** "
	
	}

RESPONSE	{
	
	  "data": {
	
	    "message": "Success",
	
	    "response": 200,
	
	    "responseValue": "आप कैसे हैं?"
	
	  }
	
	}

METHOD NAME	KYC QUALITY CHECK
REQUEST METHOD NAME	POST
URL	{service-url} /api/v1/image/imagequality

REQUEST	{
	
	   "CorporateID": "Craftsilicon",
	
	   "UniqueID": " **KYC_Quality_demo1** ",
	
	   "image" :"Base64 String......",
	
	}

RESPONSE	{
	
	  "data": {
	
	    "message": "Success",
	
	    "response": 200,
	
	    "responseValue": {
	
	      "Height": 449,
	
	      "Message": "Image quality is poor",
	
	      "Width": 800
	
	    }
	
	  }
	
	}

OCR

METHOD NAME	OCR
REQUEST METHOD NAME	POST
URL	{service-url} /api/v1/image/ocr

REQUEST	{
	
	    "documenttype":"AadharCard",
	
	    "CorporateID": "Craftsilicon",
	
	    "UniqueID": " **OCR_demo1** ",
	
	"ImageBase64":"Base64 String......",
	
	}

RESPONSE	{
	
	    "data": {
	
	        "message": "Success",
	
	        "response": 200,
	
	        "responseValue": {
	
	            "AadharID": "2679 2711 8075",
	
	            "DOB": "08/10/1983",
	
	            "Gender": "FEMALE",
	
	            "Name1": "Minta Devi"
	
	        }
	
	    }
	
	}

METHOD NAME	IMAGE OBJECT DETECTION
REQUEST METHOD NAME	POST
URL	{service-url}/api/v1/image/objectdetection

REQUEST	{
	
	    "CorporateID": "Craftsilicon",
	
	    "UniqueID": " **Image_Object_Detact_demo1** ",
	
	    "image" :"Base64 String......",
	
	}

RESPONSE	{
	"data": {
	
	   {
	
	     "message": "Success",
	
	     "response": 200,
	
	     "responseValue": [
	
	         { "image" : "base64...."},
	
	         { "object_list" : [] }
	
	      ]
	
	   }
	
	 }
	
	}

METHOD NAME	BANK STATEMENT ANALYSIS
REQUEST METHOD NAME	POST
URL	{service-url} /api/v1/bankstatement/summary
REQUEST	BankName:UCOBANK PDF_File : <Attech File> CorporateID:Craftsilicon UniqueID: **Bank_Statement_demo1**

RESPONSE	{
	 "data": {
	  {
	   "message": "Success",
	   "response": 200,
	   "responseValue": {
	    "All Transactions": [
	
	    ],
	    "Summary - Scorecard": [
	     {
	      "Monthly Average Surplus",
	      "EMI Detected",
	      "Bank",
	      "Opening Balance",
	      "Closing Balance",
	      "MICR Code",
	      "Monthly Average Balance",
	      "IFSC Code",
	      "Account Number",
	      "Customer Name",

```
                "Account Type",
                "Start Date",
                "End Date"
              }
            ],
            "Top Transactions - Top 10 Credit Transaction": [

            ],
            "Top Transactions - Top 10 Debit Transaction": [

            ],
            "Top Transactions - Top 10 Monthly Transaction": [

            ],

          }
        }
      }
    }
```

METHOD NAME	ITR STATEMENT ANALYZER
REQUEST METHOD NAME	POST
URL	{service-url}/api/v1/ITR/analyze

REQUEST	{
	
	      UniqueID: **ITR_Statement_demo1**
	
	      CorporateID: Craftsilicon
	
	      ITR_Type: ITR-1
	
	      ITR_pdf : file
	
	}

RESPONSE	{
	  "data": {
	   "message": "Success",
	   "response": 200
	    "metadata": [
	     {
	       "Acknowledgement Number": null,
	       "Assessment Year": null,
	       "CIN": null,
	       "Document Type": "IT Return",
	       "First name": "MOHAMMED",
	       "ITR Type": "ITR-1",
	       "Last name": "MOHAMMED",
	       "Middle name": null,
	       "PAN": null
	     }
	   ],
	   "table": {
	    "Deductions US 16": 50000.0,
	    "Entertainment allowance": 0.0,
	    "Gross Salary": "12,02,681",
	    "Gross Total Income": 1162835.0,
	    "Income chargeable House Property": 0.0,
	    "Income chargeable Salaries": "11,52,681",
	    "Income from Other Sources": "10,154",
	    "Less Income claimed": "0",
	    "Less allowances": "10",
	    "Net Salary": "12,02,681",
	    "Professional tax": 0,
	    "Standard deduction": 50000.0
	   }

```
    },
}
```

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THANK YOU