# PaPa API Specification Doc

(Price and package architect) API Specification Doc

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Note: - Document is for Internal Team Usage only. Contains secret and critical information. This document Editing is still in progress, information in this document can change in future.

**Overview: -**

This Project helps Client to upload data to the SQL Database. Client must make HTTPS request with agreed table formatted string in request body and Keys In header to API Endpoints provided in this document. Azure API management routes the request to the relevant Azure function which insert the rows to the respective table in Azure SQL DB.

**Architecture Diagram: -**

Diagram

Description automatically generated

**Technologies Used: -**

1. Azure API Management
2. Azure Function Apps
3. Azure SQL Database

**Language/Framework Used: -**

1. C# .Net Core 3.1
2. Azure SDK

**Tools Used**

1. Visual Studio 2019 (IDE) with Azure Development SDK
2. GIT (source code repository)
3. Postman (for testing API)

**GIT Link**

<https://kantaranalytics@dev.azure.com/kantaranalytics/PaPA/_git/PaPA>

**Database Connection String: -**

1. DEV: - “Server=tcp:aqeastus2dbserver.database.windows.net,1433;Initial Catalog=PAPA;Persist Security Info=False;User ID=dbuser\_papa;Password=P@Pa@2020;MultipleActiveResultSets=False;Encrypt=True;TrustServerCertificate=False;Connection Timeout=30;”
2. UAT: - “Server=tcp:aqeastus2dbserver.database.windows.net,1433;Initial Catalog=papa\_uat;Persist Security Info=False;User ID=dbuser\_papa\_uat;Password=P@pa@2020;MultipleActiveResultSets=False;Encrypt=True;TrustServerCertificate=False;Connection Timeout=30;”
3. PROD:- “Server=tcp:aqeastus2dbserver.database.windows.net,1433;Initial Catalog=papa\_prod;Persist Security Info=False;User ID= dbuser\_papaprod;Password= P@P@2020;MultipleActiveResultSets=False;Encrypt=True;TrustServerCertificate=False;Connection Timeout=30;”

**API Host Name and Secrets**

1. DEV
   1. Hostname: - papa-apim-dev.azure-api.net
   2. Key (add in header): -
      1. “Ocp-Apim-Subscription-Key”: find it on azure portal
      2. “Ocp-Apim-Trace”:”true”
2. UAT
   1. Hostname: - papa-apim-uat.azure-api.net
   2. Key (add in header): -
      1. “Ocp-Apim-Subscription-Key”: find it on azure portal
      2. “Ocp-Apim-Trace”:”true”
3. Prod
   1. Hostname: - papa-prod-apim.azure-api.net
   2. Key (add in header): -
      1. “Ocp-Apim-Subscription-Key”: find it on azure portal
      2. “Ocp-Apim-Trace”:”true”

**Table Encoded to string as Request Body Instructions**

1. The Column Delimiter is || and Row Delimiter is @.
2. Make sure ##.||,@ are not present in the data.
3. The complete Body should be enclosed under ##. For example, if table string is “a||b||c@1||2||3”, the message should be “##a||b||c@1||2||3##”.
4. String till first @ symbol are Column names, then followed by Rows.
5. All Column information should be present in order and data should be in correct type.
6. Refer Table Scripts for column Order.

**API End Points**

[Base URL] = <https://[Hostname]/api>/{operation}

Find Operations Sheet separately in this folder “PaPa Azure Resources info.xlsx”

**Troubleshooting**

* Only status Code 200 and 400 Means requests Reached to function.
  + Status code 401: - Key is missing from header or is expired.
  + Status Code 403: - IP may not Whitelisted, please use VPN
  + Status code 404: - the URL is not available, check your connectivity to URL, Check the correct method type is being Used.
  + Status code 500: - system is breaking, maybe due to code or configuration issue.
  + Status code 503:- service is unavailable, maybe resources are down or deployment activity is going on.
* Status Code is 200 means Success
* Status code 400 means code failed, check the next line of response.
  + Transform Error: - Code Failed to convert string to Table. Please third line for more info.
  + SQL Error: - SQL specific issue, maybe connectivity, Stored Proc check then next line for detailed info.