

# Brainvoy

## Application User Manual

### Overview:

The **Brainvoy Flask App** is designed to interact with HubSpot's API to manage user accounts, retrieve data, and synchronize with Airbyte for data extraction. The app is built using the Flask framework and handles OAuth 2.0 authentication to connect users with their HubSpot accounts and synchronize their data to S3 via Airbyte.

### Application Structure

The app uses Flask to handle routing and requests. It also integrates with HubSpot via OAuth 2.0 to retrieve tokens, which are then used to access HubSpot resources.

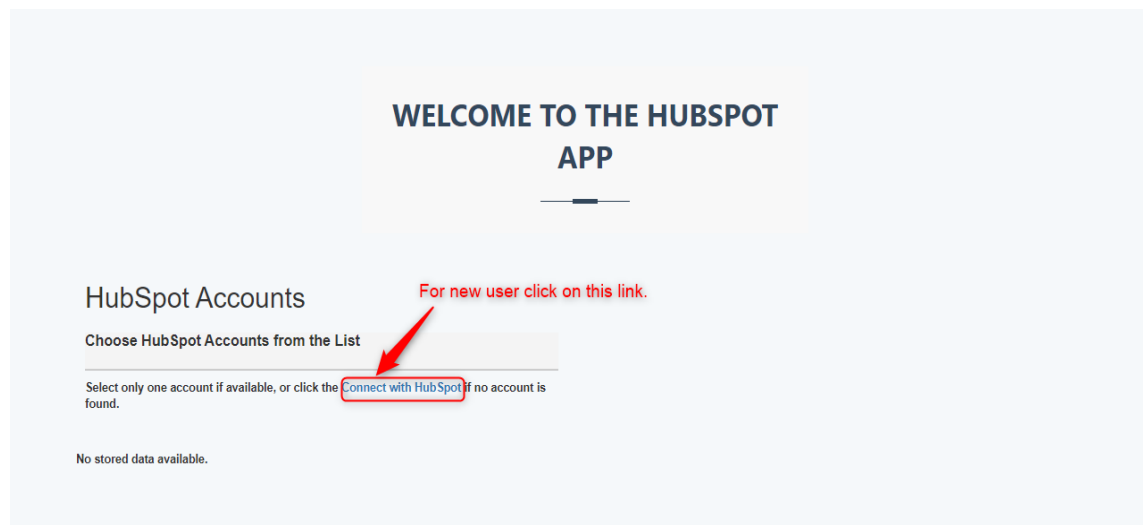
- **Main Application File:** This is the primary file (`app.py`), which defines the Flask routes and handles OAuth flow.
- **YAML File Handling:** The tokens and user information are saved in and loaded from a YAML file (`tokens.yaml`).

### User Flow

#### 1. Home Page:

When the user visits the **Home Page** of the Brainvoy app, they are presented with the following options:

1. **Connect with HubSpot Button:**
  - a. If the user has no existing account data, they can click this button to begin the authentication process with HubSpot.
  - b. Clicking the button redirects the user to a HubSpot authorization page to select and authorize their account.



## 2. User Data Table:

- a. If the user has already connected an account, a table will appear showing the user's **HubSpot** data (such as `hub_id` and user information).

The screenshot shows the 'WELCOME TO THE HUBSPOT APP' header. Below it, the 'HubSpot Accounts' section has a heading 'Choose HubSpot Accounts from the List'. A note states: 'Select only one account if available, or click the [Connect with HubSpot](#) if no account is found.'

Hub ID	User	Refresh Token	Connection
47273768	samiullah@dotlabs.ai	4444af46-5a84-4bb4-a47a-c6e7441e6a47	Checking Connection

Activate Windows

### 3. Connection Checking Button:

- If the user has already authenticated with their HubSpot account, their information will be displayed in the application. The user can click the "Check Connection" button to initiate or validate the connection. After authentication, the connection process begins automatically. However, if the connector is deleted or an error occurs preventing the connection from being established, the user can click this button to re-initiate the connection between the validated sources and destinations.

## Airbyte Integration:

After the user connects their HubSpot account, the app integrates with **Airbyte** for data extraction:

### 1. Passing Refresh Token:

- Once the HubSpot account is connected, the app passes the **refresh token** from HubSpot to the Airbyte application.

### 2. Source, Destination, and Connection Setup:

- If no source, destination, or connection exists for the account in Airbyte, the app automatically creates these configurations for the user.

### 3. Data Synchronization:

- The app will initiate a sync between the connected sources and streams in Airbyte, pulling the necessary HubSpot data at 7:00 AM UTC.

The screenshot shows the Airbyte web interface. On the left is a sidebar with navigation links: Airbyte, Connections, Sources, Destinations, Builder, and Settings. The main panel is titled 'Connections' and shows '1 running · 1 healthy'. A red box highlights a connection in the table with the name 'samiullah\_47273768\_HubSpot\_S3'. A text box with an arrow pointing to this row states: 'In the highlighted box, you can see the connection associated with the user retrieved by the Flask app.'

NAME	SOURCE NAME	DESTINATION NAME	FREQUENCY	LAST SYNC	ENABLED
user_1_connection	HubSpot-test123	S3_hubspot-test123	24 hours	1 hour ago	<input type="checkbox"/>
samiullah_47273768_HubSpot_S3	samiullah_47273768_HubSpot	samiullah_47273768_S3	Cron	1 hour ago	<input checked="" type="checkbox"/>

### 4. Synced Data Storage: S3 Bucket:

- Synced data is stored in the S3 bucket named **hubspot-users-data-uncleaned**.
- This bucket holds the uncleaned data extracted from HubSpot via airbyte, which is further processed for cleaning and placed in bucket **hubspot-users-data-cleaned-transformed**.

aws

Services

Search

[Alt+S]

Ohio

AWSAdministratorAccess/samiullah.arshad

Amazon S3

Buckets

Access Grants

Access Points

Object Lambda Access Points

Multi-Region Access Points

Batch Operations

IAM Access Analyzer for S3

Block Public Access settings for this account

Storage Lens

Dashboards

Storage Lens groups

AWS Organizations settings

General purpose buckets

Directory buckets

General purpose buckets (5)

Info

All AWS Regions

Copy ARN

Empty

Delete

Create bucket

Buckets are containers for data stored in S3.

Find buckets by name

	Name	AWS Region	IAM Access Analyzer	Creation date
<input type="radio"/>	<a href="#">hubspot-users-data-cleaned-transformed</a>	US East (Ohio) us-east-2	<a href="#">View analyzer for us-east-2</a>	September 18, 2024, 14:21:08 (UTC+05:00)
<input type="radio"/>	<a href="#">hubspot-users-data-uncleaned</a>	US East (Ohio) us-east-2	<a href="#">View analyzer for us-east-2</a>	September 18, 2024, 13:50:11 (UTC+05:00)
<input type="radio"/>	<a href="#">marketer-data-dev-eu-central-1-730335195471</a>	Europe (Frankfurt) eu-central-1	<a href="#">View analyzer for eu-central-1</a>	July 30, 2024, 07:06:59 (UTC+05:00)
<input type="radio"/>	<a href="#">terraform-state-eu-central-1-730335195471</a>	Europe (Frankfurt) eu-central-1	<a href="#">View analyzer for eu-central-1</a>	June 5, 2024, 20:13:19 (UTC+05:00)
<input type="radio"/>	<a href="#">testoutputbucket-glue</a>	US East (Ohio) us-east-2	<a href="#">View analyzer for us-east-2</a>	September 16, 2024, 18:38:24 (UTC+05:00)

uncleaned bucket

Clened Bucket

Activate Windows

Go to Settings to activate Windows.