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| RAZDA Co. | | |
| **Filename: [squarespace\_auth.py]** | | |
| **Summary***:*  The squarespace\_auth.py file manages secure authentication for accessing SquareSpace’s API. It handles API credential storage, token generation, and automatic token refresh, ensuring only authorized requests interact with SquareSpace data. This file supports secure data exchanges, such as inventory updates and order tracking, by implementing OAuth2 protocols and maintaining a robust logging system for tracking authentication status. | | |
| ***Processes*** | | |
| * **Enviroment and Logging Setup** | **Loads environment variables and configures logging in squarespace\_auth.log to capture all authentication actions, including token retrieval and refresh attempts. Provides an audit trail for each authentication request.** | |
| * **API Credential Loading** | **Validates and loads API credentials (SQUARESPACE\_CLIENT\_ID, SQUARESPACE\_CLIENT\_SECRET, SQUARESPACE\_REDIRECT\_URI) from .env. Ensures all necessary credentials are set before proceeding with API access.** | |
| * **Token Exchange Process** | **Uses the authorization code obtained from SquareSpace to request access and refresh tokens. Logs each successful exchange and captures errors to prevent failed authentications.** | |
| * **Access Token Refresh** | **Refreshes the access token automatically when it expires, using the refresh token. Logs each refresh action, ensuring consistent API access without disruption. Catches errors if token refresh fails, allowing for troubleshooting.** | |
| **Files it Gets Information From:** | | **Files it Sends too:** |
| * **Environment Variables (.env)**: Retrieves SquareSpace API credentials (SQUARESPACE\_CLIENT\_ID, SQUARESPACE\_CLIENT\_SECRET, SQUARESPACE\_REDIRECT\_URI). Ensures these are kept secure and not hardcoded in the file, following best practices for sensitive data handling | * **Log file (squarespace\_auth.log)**: Records each token request, refresh, and any errors encountered, providing a detailed log for auditing and troubleshooting. Supports monitoring of API access stability and security. | |
| * **Token URL (squarespace\_auth.py)**: The URL endpoint for exchanging and refreshing SquareSpace API tokens. Ensures the correct endpoint is always used to maintain secure authentication. |  | |
| **Expected input into file:** | | **Expected output from file:** |
| |  |  | | --- | --- | | * - **Environment Variables**: |  |  |  | | --- | | * • .env file with SquareSpace API credentials | | | * - `SQUARESPACE\_CLIENT\_ID` - `SQUARESPACE\_CLIENT\_SECRET` - `SQUARESPACE\_REDIRECT\_URI` |
| **Things that need to be taking place:** | | |
| |  | | --- | | **1. Environment Variable Verification: Ensure all required environment variables (SQUARESPACE\_CLIENT\_ID, SQUARESPACE\_CLIENT\_SECRET, SQUARESPACE\_REDIRECT\_URI) are present in .env and correctly loaded. Confirm access tokens can be securely retrieved.** |  |  | | --- | | **2. Logging Verification:** |  |  | | --- | |  | | | |
| Edit log (update each time you make changes to doc or file). | | |
| * Oliver Smith (Razda Admin) Nov 8, 2024: | | |