

Assignment: Snap-in Development Challenge Submission

Step 1 : Utilizing the DevRev API

First task is to utilize the DevRev API to create a work item. Python was used as the programming language, which is compatible with the DevRev API.

Following steps were followed to create a issue using DevRev API

1. Generating your PAT(Personal access token):

- Go to the relevant dev org in the DevRev app and navigate to Settings > Account > Personal Access Token to create a PAT.
- Use descriptive names for PATs to differentiate between them.
- After creating the PAT, securely store it, as it can't be retrieved once you leave the page.

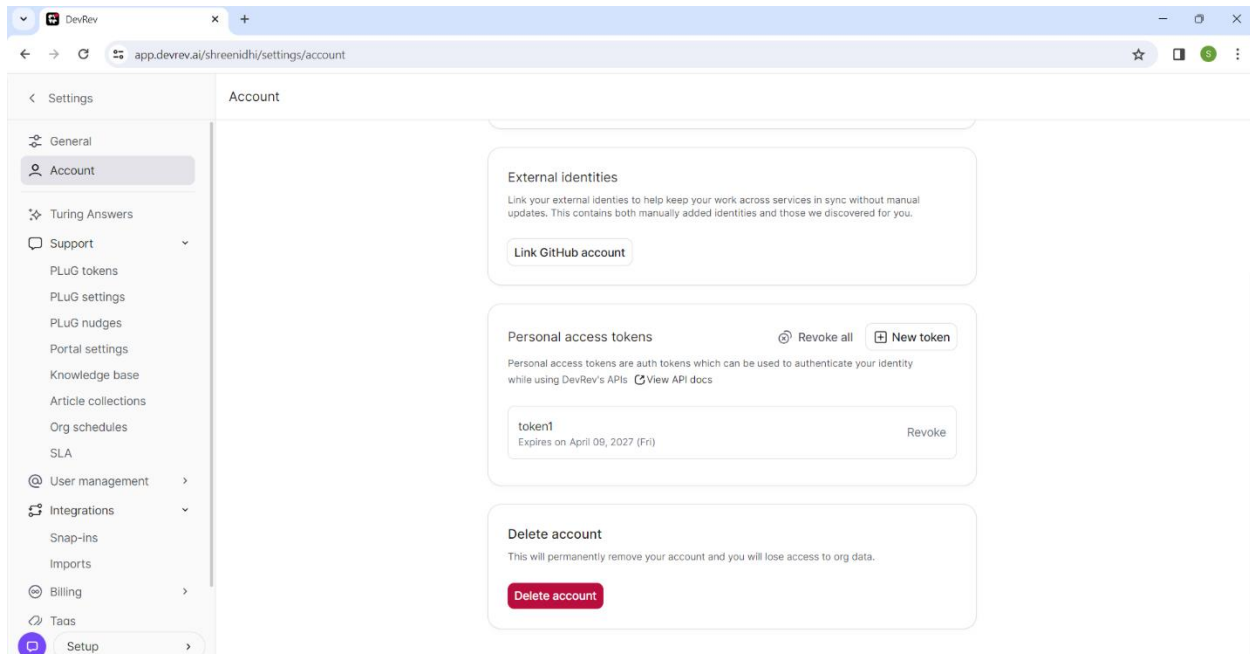


Figure representing token created

2. Retrieving user ID:

- The provided code makes use of the "requests" library to perform an HTTP GET request to a specified API endpoint which is to retrieve the user details using the unique API key.
- The function is defined to make an HTTP GET request to the specified API endpoint using the provided API key for authorization. It handles potential errors and returns the response in JSON format if the status code is 200.
- The script uses the API URL "https://api.devrev.ai/dev-users.self"
- The previously stored token is used as API key
- The script then executes the "main" function, triggering the retrieval and display of the User information.

The screenshot shows the Visual Studio Code interface with a file explorer on the left containing files like `retrieve_ID.py`, `issue_creation.py`, and `retrieve_ID.py`. The main editor displays the following Python code:

```
1 import requests
2
3
4 def dev_user(api_url, api_key):
5     headers = {"Authorization": api_key}
6
7     try:
8         response = requests.get(api_url, headers=headers)
9         if response.status_code == 200:
10             return response.json()
11         else:
12             print(f"Error: {response.status_code} - {response.text}")
13             return None
14     except requests.exceptions.RequestException as e:
15         print("Connection error:", e)
16         return None
17
18
19 api_url = "https://api.devrev.ai/dev-users.self"
20 api_key = "eyJhbGciOiJSUzI1NiIsImZlcyI6Imh0dH8zOjI8SVYXV0ac10bzTlbiskXzyZXUydkk1Iiwia2kiOiJoicR2tPZm9yc2E1LCJ0eXAiOiJKV1QiIqfQ.eyJhdwIoIjsi
21
22
23 result = dev_user(api_url, api_key)
24 if result:
25     print("Dev User:", result)
26 else:
27     print("Failed to Dev_User")
28
```

Output:

```

PROBLEMS  DEBUG CONSOLE  TERMINAL  PORTS
[ ] powershell + ▢ ... ^ X

● PS C:\Users\hnp\Desktop\DevRev\API> python retrieve_ID.py
Dev User: {'dev_user': {'created_by': {'type': 'dev_user', 'display_id': 'DEVU-1', 'display_name': '4nm20is138', 'email': '4nm20is138@nmamit.in', 'full_name': 'SHREENIDHI', 'id': 'don:identity:dvrv-us-1:devo:1YLVLIffcc:devu/1', 'state': 'active'}, 'created_date': '2024-04-08T14:15:39.644Z', 'display_id': 'DEVU-1', 'display_name': '4nm20is138', 'email': '4nm20is138@nmamit.in', 'full_name': 'SHREENIDHI', 'id': 'don:identity:dvrv-us-1:devo:1YLVLIffcc:devu/1', 'modified_by': {'type': 'dev_user', 'display_id': 'DEVU-1', 'display_name': '4nm20is138', 'email': '4nm20is138@nmamit.in', 'full_name': 'SHREENIDHI', 'id': 'don:identity:dvrv-us-1:devo:1YLVLIffcc:devu/1', 'state': 'active'}, 'modified_date': '2024-04-08T14:17:19.651Z', 'phone_numbers': ['+919480979226'], 'state': 'active'}}
PS C:\Users\hnp\Desktop\DevRev\API>

```

3. Creating issue:

- The `create_work` function is defined to create a work item(issue) using the DevRev API. It takes an API URL, API key and `work_data` as input, constructs the API URL, sets the required headers, and then makes a POST request to create the work item.
- The script uses the API URL "`https://api.devrev.ai/works.create`"
- The previously stored token is used as API key
- `Work_data` includes four mandatorily required parameters for the creation of issue. This includes:
 - `Type`: type of work item(issue)
 - `Applies_to_part`: affected product or part(used a default part)
 - `Owned_by`: user ID retrieved from previous program
 - `Title`: title of issue
- The result of the issue creation attempt is checked, and a success or failure message is printed based on the outcome.

[illegible]

Output:

```

PROBLEMS  DEBUG CONSOLE  TERMINAL  PORTS
PS C:\Users\hp\Desktop\DevRev\API> python issue_creation.py
Work created: {'work': {'type': 'issue', 'applies_to_part': {'type': 'product', 'display_id': 'PROD-1', 'id': 'don:core:dvr-us-1:devo/1YLVLIpfcc:product/1', 'name': 'Default Product 1'}, 'created_by': {'type': 'dev_user', 'display_id': 'DEVU-1', 'display_name': '4nm20is138', 'email': '4nm20is138@nmamit.in', 'full_name': 'SHREENIDHI', 'id': 'don:identity:dvr-us-1:devo/1YLVLIpfcc:devu/1', 'state': 'active'}, 'created_date': '2024-04-11T12:38:38.529Z', 'custom_fields': None, 'display_id': 'ISS-24', 'id': 'don:core:dvr-us-1:devo/1YLVLIpfcc:issue/24', 'modified_by': {'type': 'dev_user', 'display_id': 'DEVU-1', 'display_name': '4nm20is138', 'email': '4nm20is138@nmamit.in', 'full_name': 'SHREENIDHI', 'id': 'don:identity:dvr-us-1:devo/1YLVLIpfcc:devu/1', 'state': 'active'}, 'modified_date': '2024-04-11T12:38:38.529Z', 'owned_by': [{'type': 'dev_user', 'display_id': 'DEVU-1', 'display_name': '4nm20is138', 'email': '4nm20is138@nmamit.in', 'full_name': 'SHREENIDHI', 'id': 'don:identity:dvr-us-1:devo/1YLVLIpfcc:devu/1', 'state': 'active'}], 'priority': 'p2', 'stage': {'name': 'triage', 'stock_schema_fragment': 'don:core:dvr-us-1:stock_sf/110623', 'title': 'Creation of issue'}}
PS C:\Users\hp\Desktop\DevRev\API>

```

Output from dev org:

Items	Links	Priority	Owner	Stage
ISS-24	Creation of Issue	P2	SH	Triage
ISS-12	'Install PLUG Today!' - Needs Dev Attention	TKT-4	FF	In Development
ISS-11	Productivity Boosts: Shortcuts and Commands	P2	FF	Backlog
ISS-10	The Power of Links	P2	FF	Backlog
ISS-9	No FOMO with DevRev Updates	P2	FF	In Development
ISS-8	Organize and share your works with Vistas	P1	FF	Backlog
ISS-8	Create your Parts	P1	FF	Backlog
ISS-5	Migrate to DevRev with Airdrop!	P0	FF	Backlog
ISS-4	Efficiently communicate within your work	P0	FF	In Development
ISS-3	Get to Know the Default Build Vistas	P2	FF	Backlog
ISS-2	DevRev is better with friends! Invite other users to your org	P2	FF	In Development
ISS-1	What's your Issue?	TKT-3	FF	In Development