# NestedFlow Automation—Initial Setups

Creation Date: 9/29/2023

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# Introduction

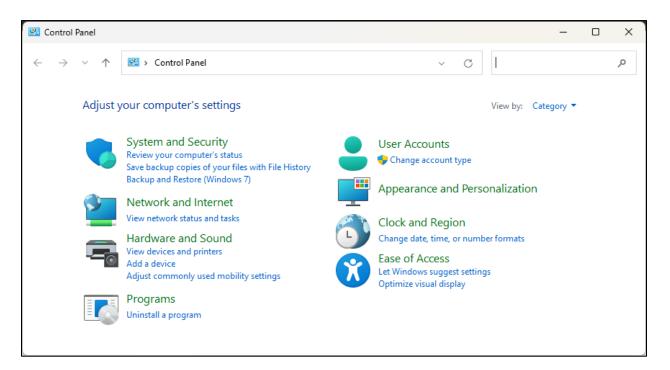
This document depicts in detail the initial setups needed to use the NestedFlow Automation tool effectively. The setups involve:

- Accessibility Setups
- Web Automation Setups
- GitHub Setups (Optional)
- SQL Definitions (Optional)
- Database Setups (Optional)

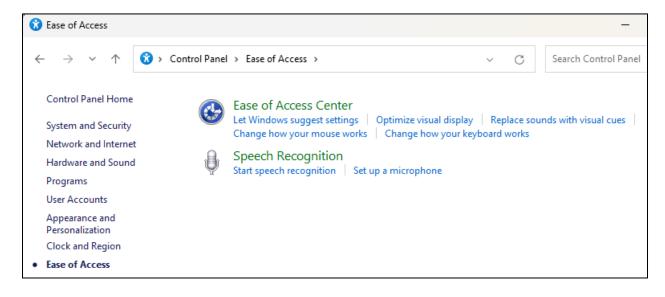
## **Accessibility Setups**

Java legacy desktop applications are automated using Java Access Bridge technology. For enabling that we need to perform the below steps

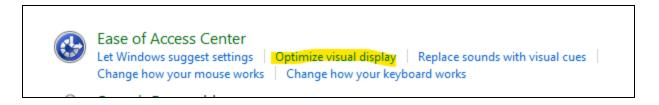
Navigate to Control Panel



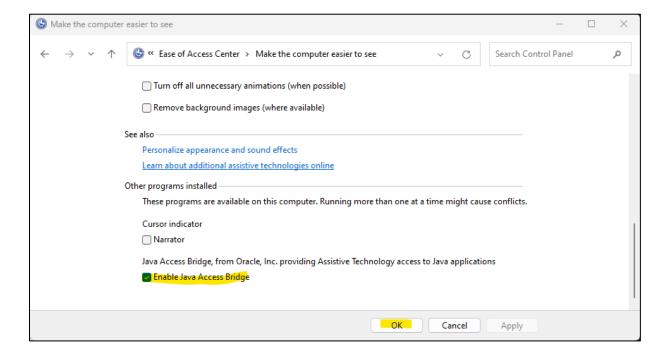
Click Ease of Access



Click on Optimal visual display



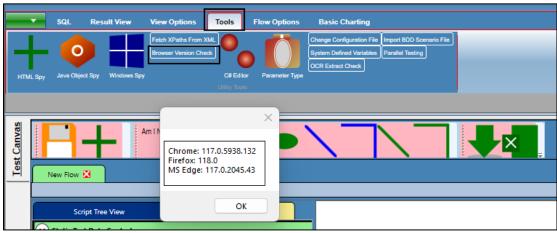
Scroll down to the bottom of the page and Check "Enable Java Access Bridge" and click on OK button



## Web Automation Setups

NestedFlow Automation tool requires webdriver exe files for automating the HTML UI elements. We must download chromedriver.exe, msedgedriver.exe, IEDriverServer.exe and geckodriver.exe matching the current browser configuration on the machine.

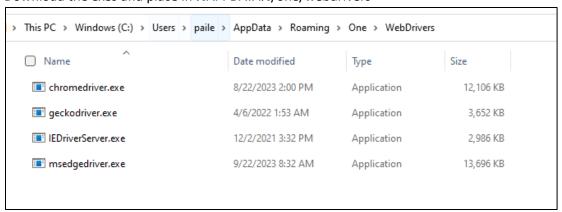
Open the NestedFlow Automation tool. Navigate to Tools menu and click on Browser Version Check menu option:



- Navigate to below websites to download webdriver exes
  - o Edge: Microsoft Edge WebDriver Microsoft Edge Developer
  - o Firefox: Releases · mozilla/geckodriver (github.com)
  - o Chrome: ChromeDriver WebDriver for Chrome Downloads (chromium.org)
    - ➢ If you are using <u>Chrome version 115 or newer</u>, please consult the Chrome for Testing availability dashboard. This page provides convenient JSON endpoints for specific ChromeDriver version downloading.

https://github.com/GoogleChromeLabs/chrome-for-testing#json-api-endpoints

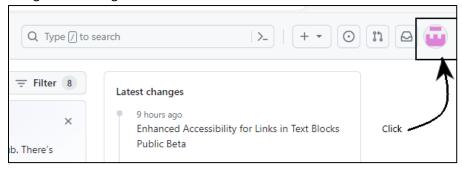
Download the exes and place in %APPDATA%/one/webdrivers

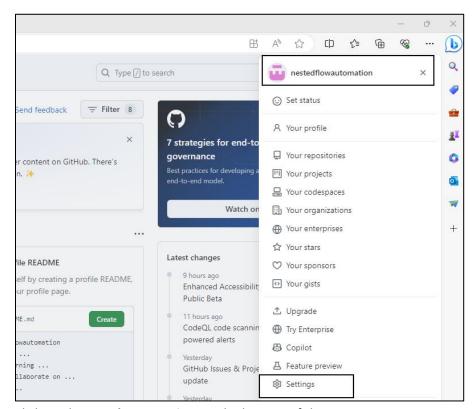


# GitHub Setups

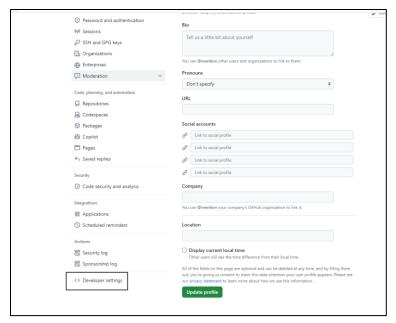
This is an optional setup. This is needed only if the test cases are needed to be hosted in GitHub. It requires the GitHub Token to be added in configuration file.

- Navigate to your Github page and login
- Navigate to settings





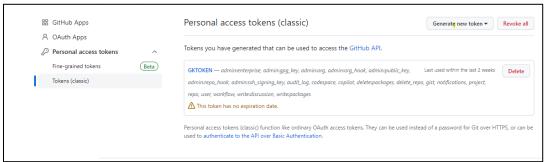
Click on the **Developer Settings** in the bottom of the screen



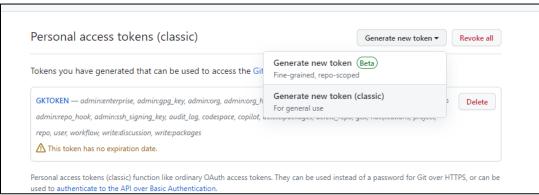
Click on Personal access tokens



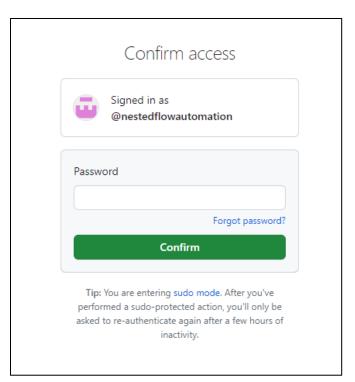
Click on Tokens (Classic)



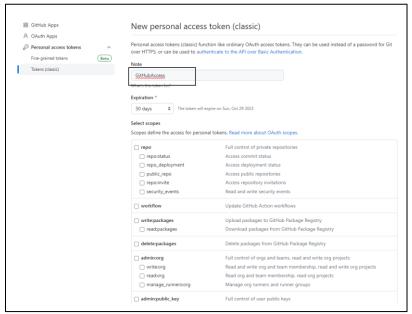
Choose Generate new token (classic)



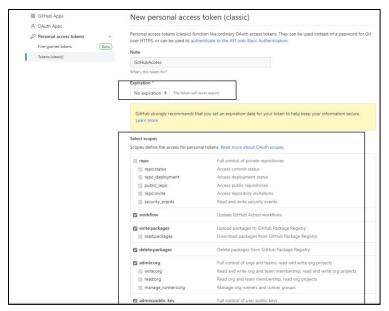
If it asks for credentials enter



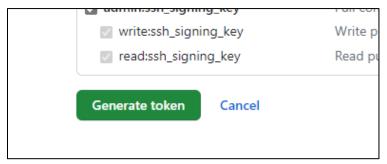
Enter the Name for the token



 Set Expiration to suitable value and check all possible checkboxes (both read and write rights are needed for the feature to work)



Click on Generate Token

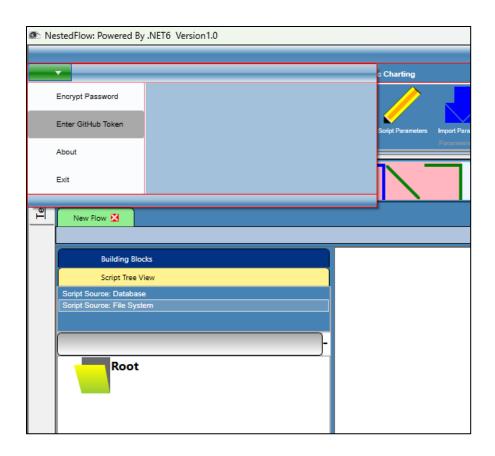


Note: Organization Github setups will also give option to configure SSO in the token setup without which it will not work

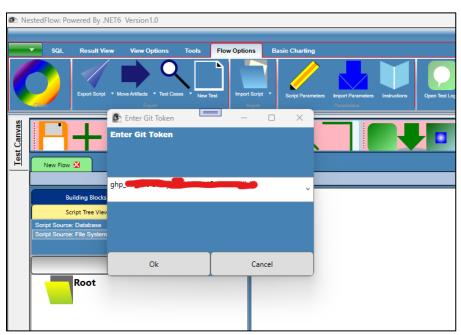
Click on Copy token icon next to the token and it will copy to clipboard



Open NestedFlow Automation tool. In the Ribbon menu choose Enter Github Token



Enter Token and click Ok button



This step will update configuration file with the token

### **SQL** Definitions

Tool allows the scripts/object files and batch files to be stored in MS SQL database. If you opt for that, you need to create a schema and below tables to make it work

Create Schema:

Creates schema needed to hold all the tables

```
CREATE schema NESTEDFLOWAUTOMATION authorization dbo;
```

Create NewDataSet Table

Created for future enhancement purposes

```
CREATE TABLE [NESTEDFLOWAUTOMATION].[newdataset]

(

[SetName] VARCHAR(2000) COLLATE SQL_Latin1_General_CP1_CI_AS NULL

, [TableName] VARCHAR(2000) COLLATE SQL_Latin1_General_CP1_CI_AS NULL

, [Creation_Date] DATETIME NULL

, [LastUpdate_Date] DATETIME NULL

, [CreatedBy] VARCHAR(2500) COLLATE SQL_Latin1_General_CP1_CI_AS NULL

, [UpdatedBy] VARCHAR(2500) COLLATE SQL_Latin1_General_CP1_CI_AS NULL

, [Active] VARCHAR(1) COLLATE SQL_Latin1_General_CP1_CI_AS NULL

);
```

Create NestedFlowFlowAttributes table

Stores test step images. Used to create test case knowledge document

Create NestedFlowMailingList table

Created for future enhancement purposes

Create NestedFlowMailingData table

Created for future enhancement purposes

Create NestedFlowglodcopyTable table

Useful to generate custom datasets which can be used for testing

Create NestedFlowgoldcopyseeddata table
 Useful to generate custom datasets which can be used for testing

```
CREATE TABLE [NESTEDFLOWAUTOMATION].[NestedFlowgoldcopyseeddata]
                 [DataSetID] VARCHAR(100) COLLATE SQL Latin1 General CP1 CI AS NULL
               , [Attribute1] VARCHAR(1000) COLLATE SQL Latin1 General CP1 CI AS NULL
                , [Attribute2] VARCHAR(1000) COLLATE SQL Latin1 General CP1 CI AS NULL
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```

Create NestedFlowseeddatacolumnMap table
 Stores custom dataset definitions

Create NestedFlowExecutionRecords table
 Created for future enhancement purposes

```
CREATE TABLE [NESTEDFLOWAUTOMATION].[NestedFlowExecutionRecords]
```

)

Create NestedFlowExecution table
 Created for future enhancement purposes

Create NestedFlowDirectory table

```
Manages Directory tree
```

Create NestedFlowDirectoryHelp table

```
Manages Directory tree
```

Create NestedFlowDBKeys table

Currently unused. Created for future enhancement purposes

Create NestedFlowdotNetScript table
 Stores C# scripts

Create NestedFlowdataSet table
 Created for future enhancement purposes

Create NestedFlowNestedFlowObjectInfo table
 Used to store Automation object information optionally

Create NestedFlowFlowInfo table
 Stores Canvas test flows

Create NestedFlowBatchExecList table
 Stores serial batch execution information

Create UserInfo table

Created for user access management if needed

Create RoleInfo table

Stores allowed user roles

Create UserRole table
 Stores user level roles

```
CREATE TABLE [NESTEDFLOWAUTOMATION].[UserRole]

(

[UserName] VARCHAR(2000) COLLATE SQL_Latin1_General_CP1_CI_AS NULL

, [RoleName] VARCHAR(2000) COLLATE SQL_Latin1_General_CP1_CI_AS NULL

, [ActiveFlag] VARCHAR(10) COLLATE SQL_Latin1_General_CP1_CI_AS NULL

, [Creation_Date] DATETIME NULL

, [LastUpdate_Date] DATETIME NULL

, [CreatedBy] VARCHAR(2500) COLLATE SQL_Latin1_General_CP1_CI_AS NULL

, [UpdatedBy] VARCHAR(2500) COLLATE SQL_Latin1_General_CP1_CI_AS NULL

);
```

Create NestedFlowFlowExecInfo table

Created for future enhancement purposes

Create NestedFlowFlowInfoExec table
 Created for future enhancement purposes

Create NestedFlowWebActions table
 Created for future enhancement purposes

Create Required Sequences

```
CREATE SEQUENCE NESTEDFLOWAUTOMATION.LogSequence
START WITH 1
INCREMENT BY 1;
CREATE SEQUENCE NESTEDFLOWAUTOMATION.ScriptSequence
```

```
START WITH 1
INCREMENT BY 1;

CREATE SEQUENCE NESTEDFLOWAUTOMATION.ActionSequence
START WITH 1
INCREMENT BY 1;

create Sequence NESTEDFLOWAUTOMATION.SSNSEQ
start with 1
MINVALUE 1
MAXVALUE 2860816
increment by 1;
```

## DataBase Steps

We need to update configuration file for enabling the tool to connect to MS SQL database in which the above objects are created. This is done to store entire test artifacts in the database which will help us enhance the test storage/execution/deployment activities. This is optional and can be skipped if the database option is not available. Because tool supports test cases in

- Local Windows machine
- Database
- GitHub

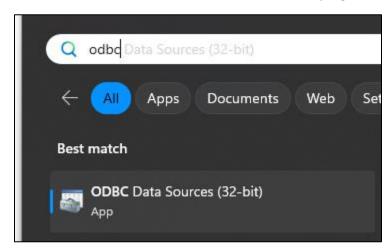
For documenting this we have created a locally hosted SQL server (but tool can connect to remote MS SQL too)

#### **Connection details:**

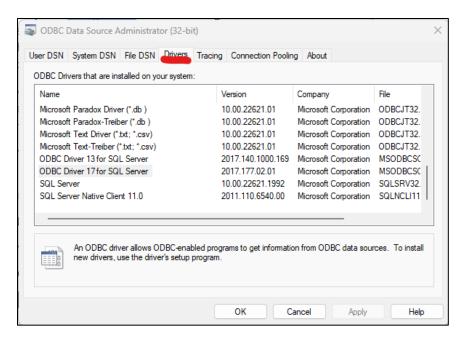
Schema: NESTEDFLOWAUTOMATION

#### **ODBC Driver:**

Search ODBC Data Sources (32-bit) in the windows programs and open it



Navigate to Drivers Tab



In this case the right driver is ODBC Driver 17 for SQL Server

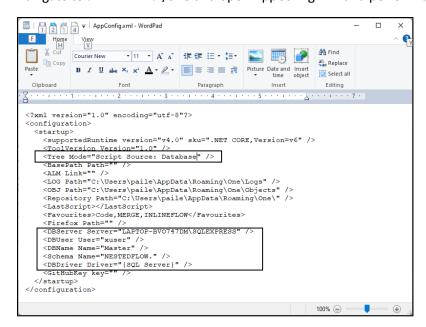
Tree Mode: Script Source: Database

Database Name: Name of the database where the schema is created

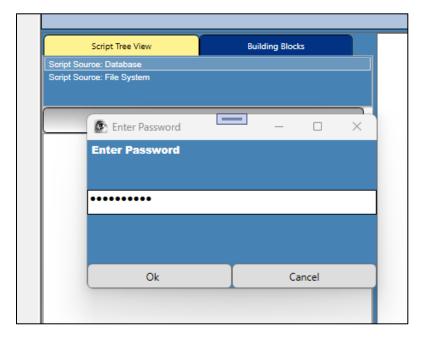
DBUser: Blank if windows authentication is enabled

DBVault (Password): Blank if windows authentication is enabled

Navigate to %APPDATA%/one and open AppConfig.xml and perform the changes



If you provide DBUser (When you don't want the windows authentication to work but use another generic user), and leave the password blank, As soon as you login password entry will be prompted

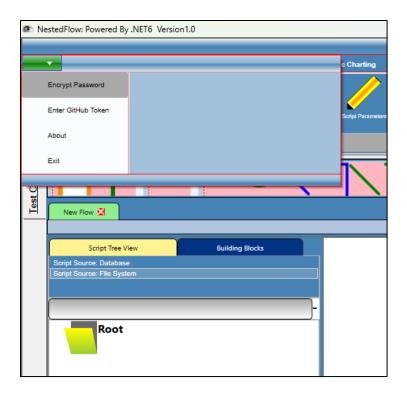


If you enter right password and click on Ok script tree will be displayed

You can also provide encrypted DB password in the config file if you don't want the Enter Password window to pop up every time. For that, create a new tag DBVault in the appconfig.xml

```
<?xml version="1.0" encoding="utf-8"?>
<configuration>
  <startup>
    <supportedRuntime version="v4.0" sku=".NET CORE, Version=v6" />
    <ToolVersion Version="1.0" />
    <Tree Mode="Script Source: Database" />
    <BasePath Path="" />
<ALM Link="" />
    <LOG Path="C:\Users\paile\AppData\Roaming\One\Logs" />
    <OBJ Path="C:\Users\paile\AppData\Roaming\One\Objects" />
    <Repository Path="C:\Users\paile\AppData\Roaming\One\" />
    <LastScript></LastScript>
    <Favourites>Code, MERGE, INLINEFLOW</Favourites>
    <Firefox Path="" />
    <DBServer Server="LAPTOP-BV0747DM\SQLEXPRESS" />
    <DBUser User="xuser" />
<DBName Name="Master" />
    <Schema Name="NESTEDFLOW." />
    <DBDriver Driver="{SQL Server}" />
    <GitHubKey key="" />
  </startup>
</configuration>
```

Invoke **Encrypt Password** menu in ribbon controls



Enter the Password. Enter Alternate Key = **SERVERVAULT** and click on **Show**.



**Encrypted Pwd** field will display the encrypted password which can be entered in the config file

```
<?xml version="1.0" encoding="utf-8"?>
<configuration>
  <startup>
    <supportedRuntime version="v4.0" sku=".NET CORE, Version=v6" />
    <ToolVersion Version="1.0" />
    <Tree Mode="Script Source: Database" />
    <BasePath Path="" />
    <ALM Link="" />
    <LOG Path="C:\Users\paile\AppData\Roaming\One\Logs" />
    <OBJ Path="C:\Users\paile\AppData\Roaming\One\Objects" />
<Repository Path="C:\Users\paile\AppData\Roaming\One\" />
    <LastScript></LastScript>
    <Favourites>Code, MERGE, INLINEFLOW</Favourites>
    <Firefox Path="" />
    <DBServer Server="LAPTOP-BV0747DM\SQLEXPRESS" />
    <DBUser User="xuser" />
    <DBName Name="Master" />
    <Schema Name="NESTEDFLOW." />
    <DBDriver Driver="{SQL Server}" />
<DBVault vault="MG151cVCqw7gez/tQvjRsw=="/>
    <GitHubKey key="" />
  </startup>
</configuration>
```