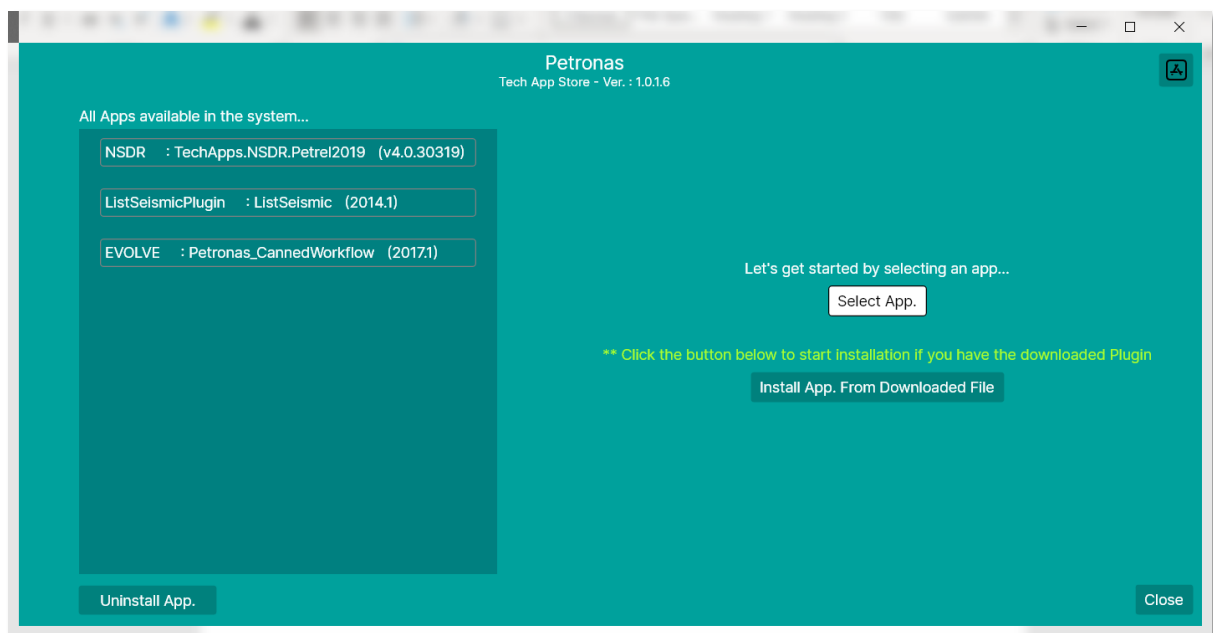


TechAppLauncher

Application Name	TechAppLauncher
Application Framework	.Net 5.0
UI Framework	Avalonia
IDE	Visual Studio 2019
Repository	https://github.com/azzulhisham/Petronas_TechAppLauncher.git
Application Url	N/A – Standalone Desktop Application
Host	Software Center

Overview

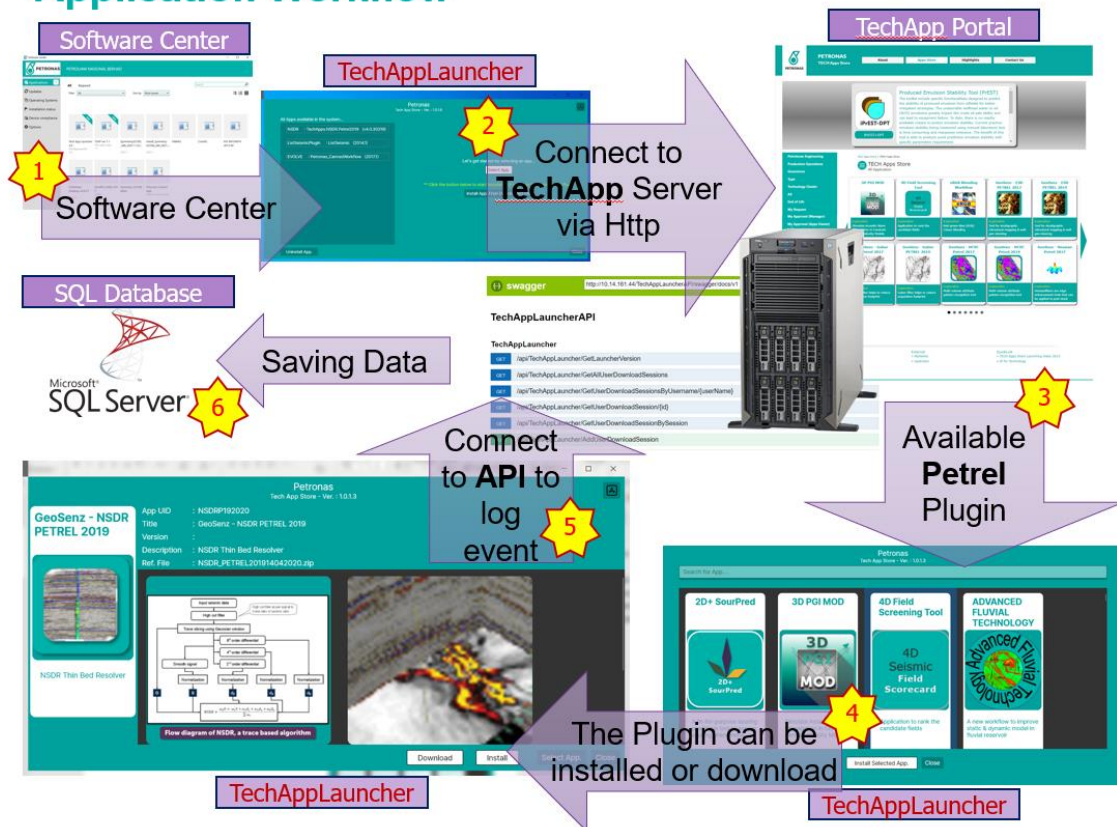


TechAppLauncher is a standalone desktop application that engaging the **Avalonia UI framework**. The Application is hosted at the **Software Center** in order to distribute to the client.

Click the link [Basics - Avalonia \(avaloniaui.net\)](https://avaloniaui.net) in order to learn more about Avalonia. You can follow the tutorial provides by the home page of Avalonia in order to understand how the application works in details.

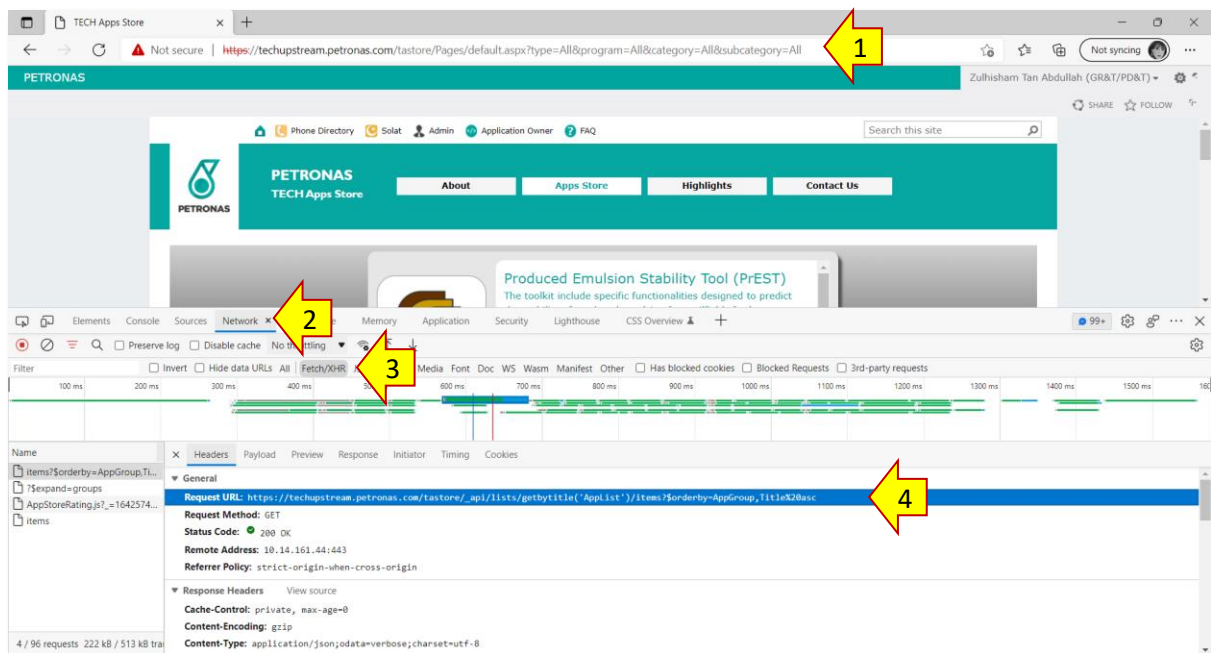
The entire flow of the application is describes in the next page.

Application Workflow

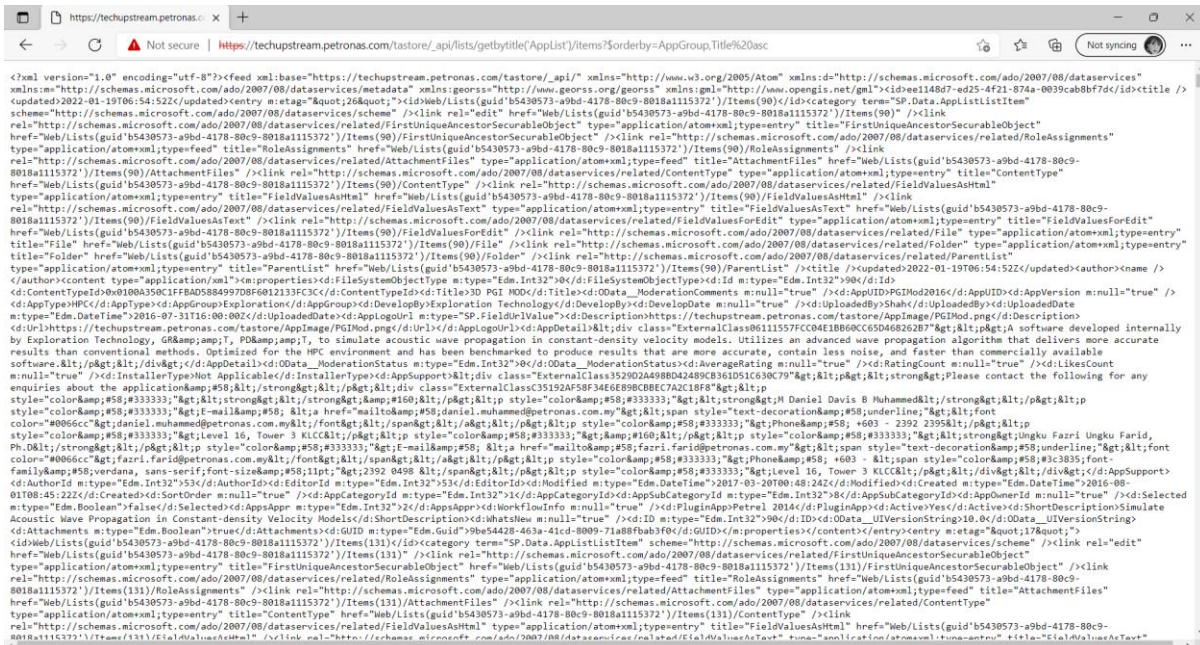


1. The application is hosted in the **Software Center**, hence user need to be installed the application from the **Software Center**.
2. The application is connected to the **TechApp Store Portal** to retrieve all the available app in the **TechApp store**.
3. The application list all the available application which is typically identical to the **TechApp Store portal**.
4. The application provides the **download** feature as well as **install** feature to the client.
5. Whenever user successfully download or install a TechApp's application, it will then connect to its **API**.
6. The application updates necessary **download session information** through its API.

Using Browser to track important endpoint



1. Browser to the **TechApp Store Portal** and then press '**F12**' to enter to the developer tools.
2. In the Developer tool, select '**Network**' tab.
3. Switch to '**Fetch/XHR**' mode and then refresh the page.
4. The endpoint shown in the '**Headers**' tab is used by the **TechApplauncher** in order to retrieve all the available app in **TecApp Store**. You can copy the URL of the endpoint and then paste it to your browser, the screenshot below shows the response from the server in xml format.

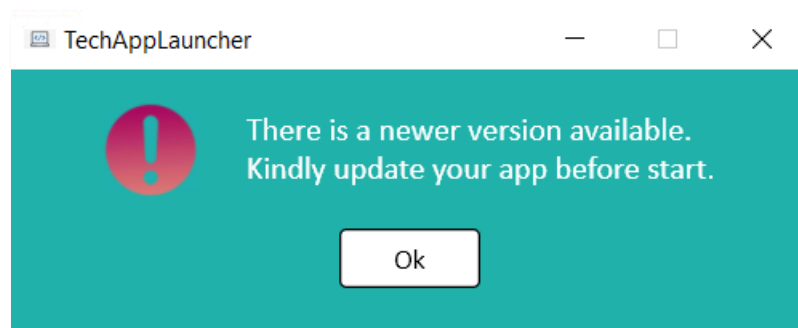


TechAppLauncherAPI

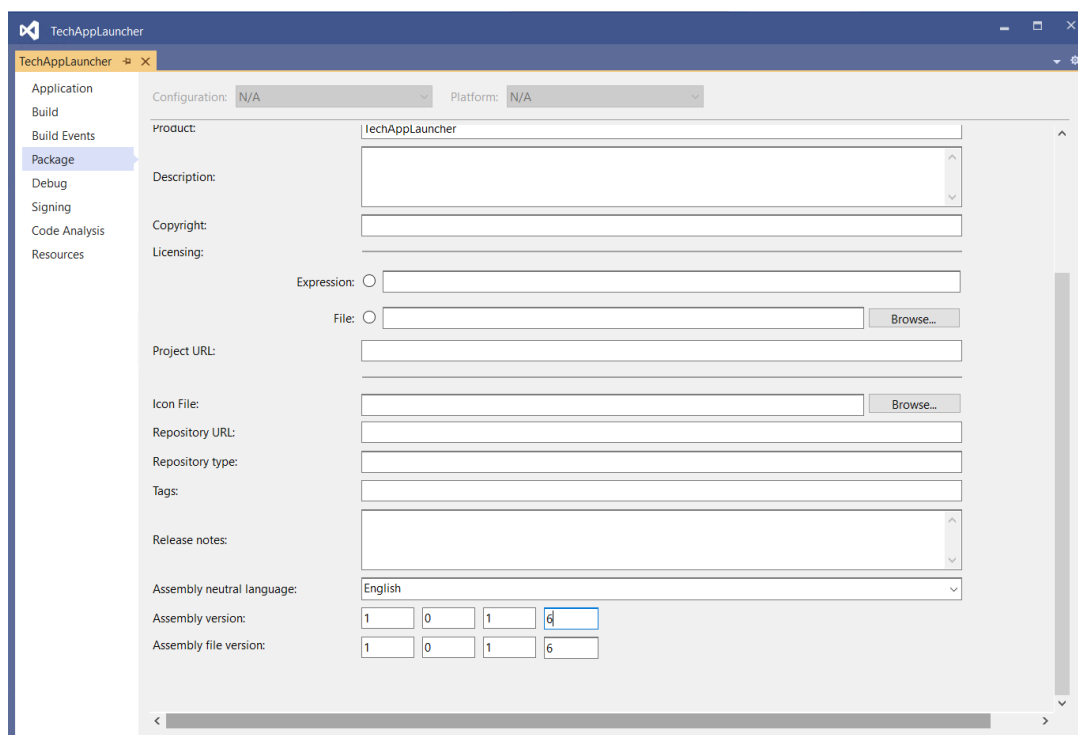
There are few important endpoints that the **TechAppLauncher** connected to:

1. /api/TechAppLauncher/GetLauncherVersion
2. /api/TechAppLauncher/GetlauncherAppConfig
3. /api/TechAppLauncher/GetUserDownloadSessionsByUsername
4. /api/TechAppLauncher/AddUserDownloadSession
5. /api/TechAppLauncher/GetAppDistributionReferenceDetailByAppUID

1. **GetLauncherVersion** – The launcher uses this information to determine whether the client is using the latest version of the application, otherwise it will prompt the user with the message as shown below.



The launcher version number is set at it's project property as shown below. Hence, it is recommended to increase the number every time there is a new update deploy to the server.



You can use the following endpoints to update the version number.

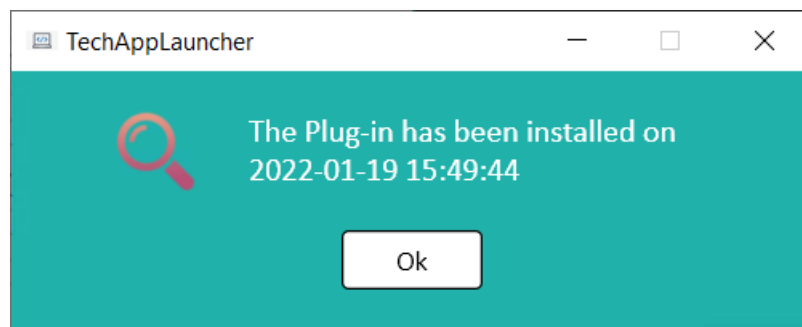
- i. `/api/TechAppLauncher/UpdateAppVerMajorNumber`
- ii. `/api/TechAppLauncher/UpdateAppVerMajorRevisionNumber`
- iii. `/api/TechAppLauncher/UpdateAppVerMinorNumber`
- iv. `/api/TechAppLauncher/UpdateAppVerMinorRevisionNumber`

2. **GetlauncherAppConfig** – The launcher uses this endpoint to retrieve the **TechApp Store** server credentials.

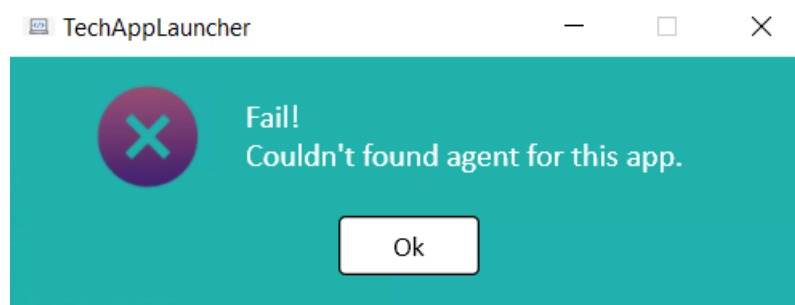
Since the server credentials might need to update in a period of time, you can update the credential information with the following endpoints.

- i. `/api/TechAppLauncher/UpdateAppStoreServerDomainName`
- ii. `/api/TechAppLauncher/UpdateAppStoreServerUserName`
- iii. `/api/TechAppLauncher/UpdateAppStoreServerPassword`

3. **GetUserDownloadSessionsByUsername** – The launcher uses this endpoint to determine whether a specific plugin had already installed at the client workstation. Its will prompt the message as shown below if that specific plugin had already installed.



4. **AddUserDownloadSession** – The launcher uses this endpoint to insert new record of User Download Session into the database.
5. **GetAppDistributionReferenceDetailByAppUID** – The launcher uses this endpoint to find for the installation agent for a specific application such as **Software Center**. The launcher will prompt an error message if you try to install a standalone application but there is no information has been setup in the database.



You can use the following endpoint to add and to delete a specific agent.

- i. `/api/TechAppLauncher/AddAppDistributionReferenceDetail`
- ii. `/api/TechAppLauncher/DeleteAppDistributionReferenceDetail`

You can also update the details of a specific agent with the following endpoints.

- i. `/api/TechAppLauncher/UpdateAppDistributionReferenceDetailByApp
UID`
- ii. `/api/TechAppLauncher/UpdateAppDistributionReferenceDetailById`