To setup Azure AD B2C SSO for the SleekFlowTodoListAPI, the Swagger UI and the Blazor Web Assembly - these 8 environment variables must be registered in the Web App configuration:

- AzureAdB2CApi_ClientId (string)
- AzureAdB2CApi __Instance (string)
- AzureAdB2CApi __SignUpSignInPolicyId (string)
- AzureAdB2CApi __Domain (string)
- AzureAdB2CSwagger__ClientId (string)
- AzureAdB2CSwagger_ClientSecret (string)
- AzureAdB2CSwagger_Scope (string)
- AzureAdB2CSwagger_AppName (string)

Setting up App registrations and UserFlows for Single Sign On.

Important: Before following this document, please make sure that Azure AD B2C tenant is setup.

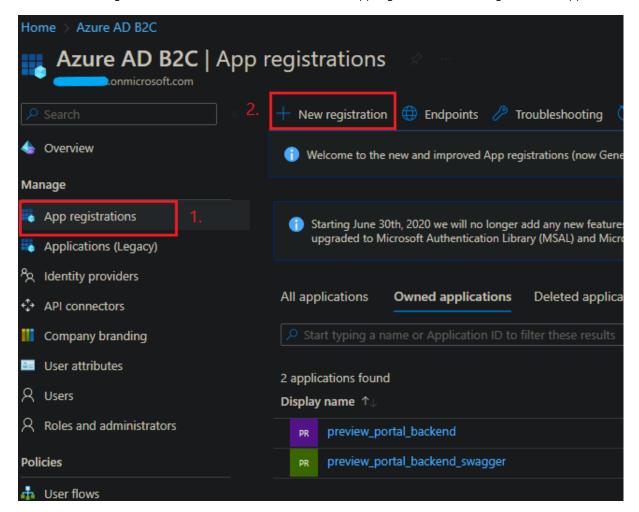
Overview

To implement SSO for the application we are using and Microsoft.Identity.Web package for backend API and Swagger client authentication. To utilize the packages, the authentication context needs to be created in the app and the following configurations needs to be setup in Azure Portal:

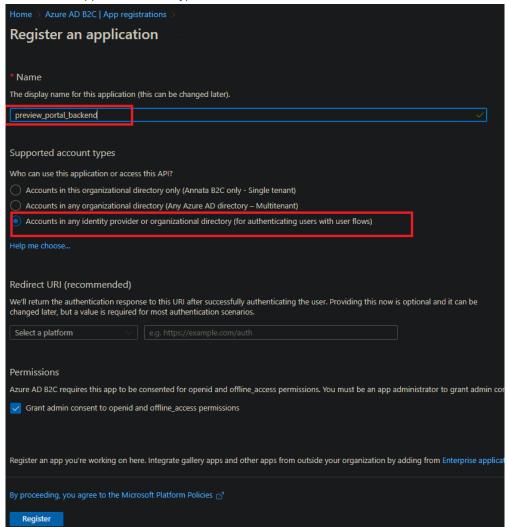
- App registration API
- App registration Swagger Client
- App registration Blazor Web Assembly (Not documented yet)
- User Flow (SignIn)

A. App Registration API:

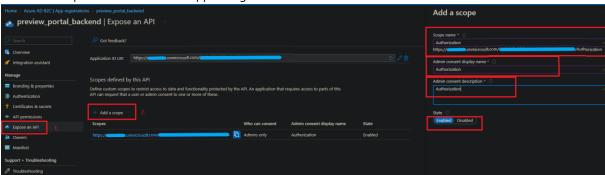
1. Navigate to Azure AD B2C tenant and select the "App registrations" tab to register a new app.



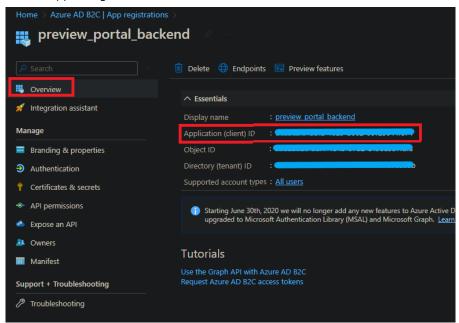
- 2. Register a new app:
 - Give the app registration a suitable name, e.g. "preview_portal_backend".
 - Select the option "Accounts in the organizational directory only" (Single tenant) for supported account types.



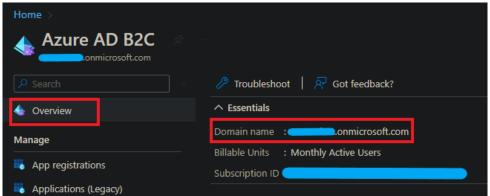
3. Navigate to "Expose an API" tab and add a new scope to authenticate the backend API. Make sure to assign the scope name as "Authorization" – the secured backend WebApi controller will authenticate against the hardcoded scope value "Authorization". Make sure to assign the scope value "https://{domain refer to A.5}/{clientId refer to A.4}/Authorization" to AzureAdB2CSwagger_Scope parameter in the web app config.



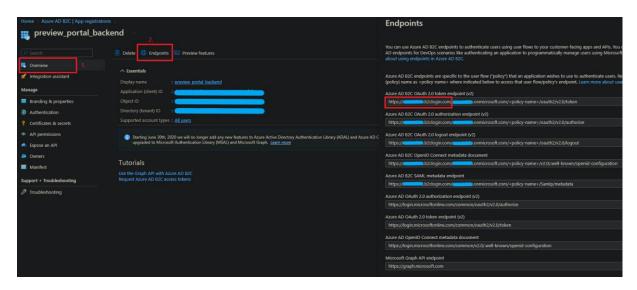
4. Make sure to assign the "Application (client) ID" value to **AzureAdB2CApi_ClientId** parameter in the Web App config.



5. Navigate to the Azure Active Directory "Overview" tab to locate the **Azure AdB2CApi_Domain** parameter value and register it in the web app config.



6. For the **AzureAdB2CApi_Instance** parameter, set its value to the app's URL in the web app config. E.g. "https://test.b2clogin.com" as shown below:

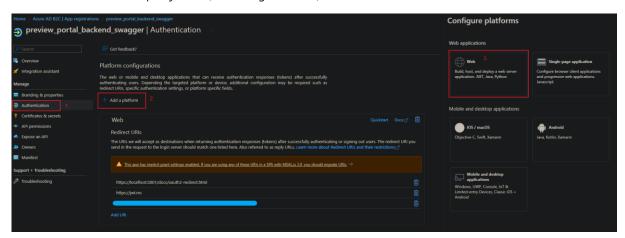


7.	For the AzureAdB2CApi_SignUpSignInPolicyId parameter, set its value to the user flow name
	created in section D.3 , e.g. "B2C_1_DealerPortPreview"

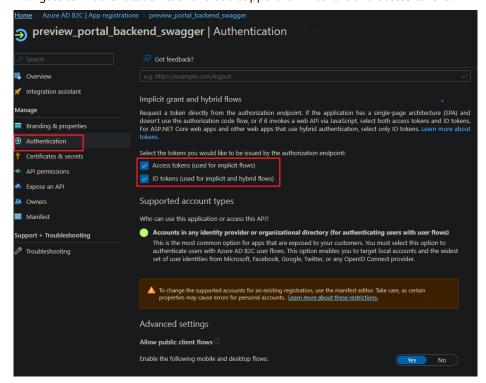
B. App Registration Swagger Client:

App registration is required for swagger authorization to work. The following steps need to be followed

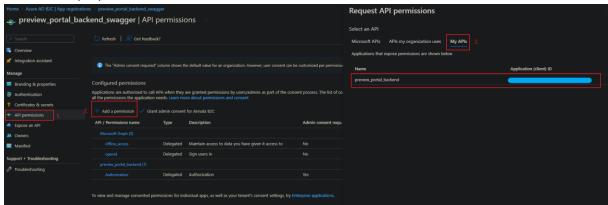
- Navigate to Azure AD B2C tenant and select the "App registrations" tab to register a new app.
- 2. Register a new app:
 - Give the app registration a suitable name e.g. "preview_portal_backend_swagger" (Assign the registered app name to **AzureAdB2CSwagger_AppName** parameter in WebApp config).
 - Select the option "Accounts in the organizational directory only" (Single tenant) for supported account types.
- 3. Navigate to "Authentication" tab, add a new platform for "Web" and set the following redirect URLs to match the Swagger client's app:
 - https://{appURL}/docs/oauth2-redirect.html
 - https://localhost:5001/docs/oauth2-redirect.html (for developer to debug)
 - https://jwt.ms (for testing user flow)



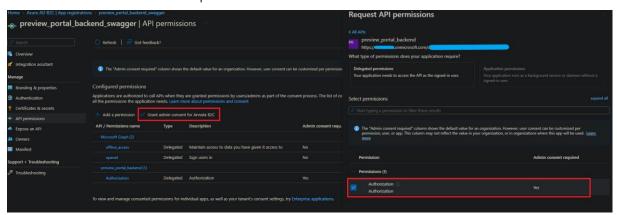
4. Navigate to "Authentication tab" and add support for ID tokens and access tokens.



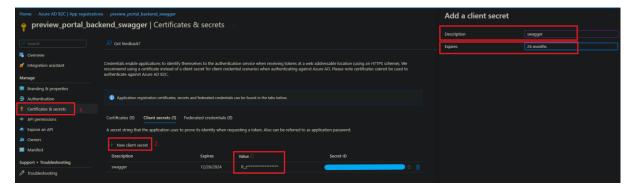
5. Navigate to "API permissions" tab, select "Add a permission" and select the API exposed in section (A.3).



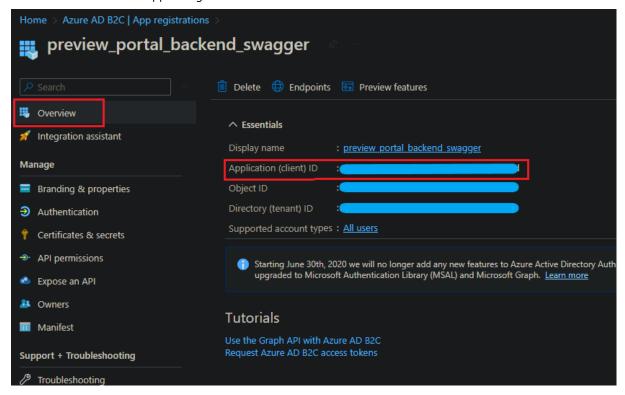
6. Select the permission created in section (**A.3**) and add the permission. Make sure to grant admin consent for the added permission.



- 7. Navigate to "Certificates & secrets" tab and add a new client secret:
 - Give a suitable description e.g. "swagger".
 - Select the preferable expiration interval from the "Expires" drop-down.
 - Assign the client secret's "Value" to **AzureAdB2CSwagger_ClientSecret** in WebApp config.



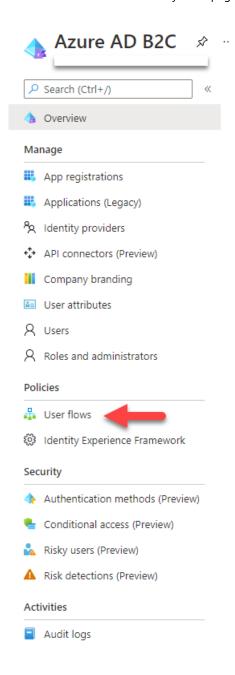
8. Make sure to assign the "Application (client) ID" value to **AzureAdB2CSwagger_ClientId** parameter in the Web App config.



C. App Registration Blazor Web Assembly

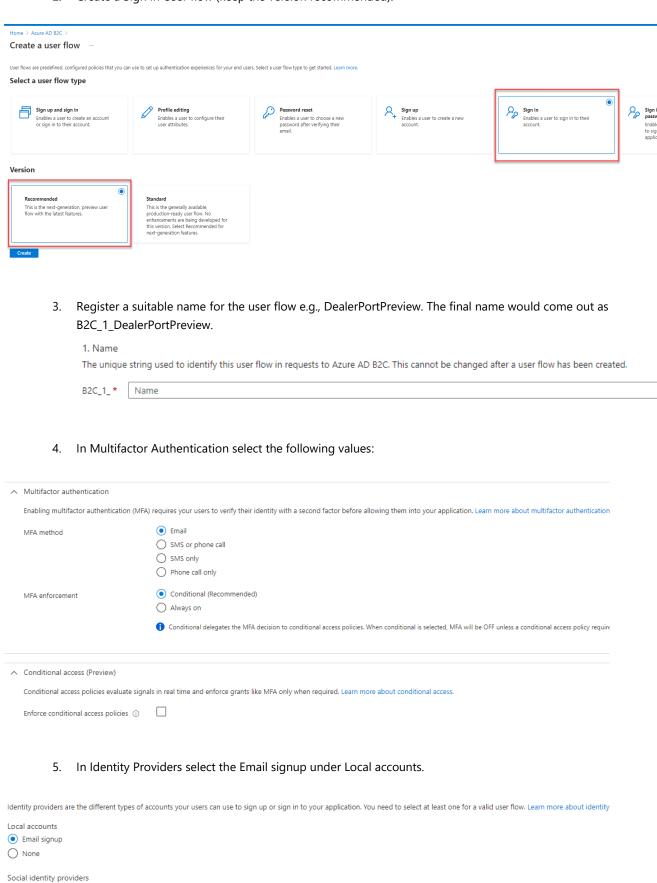
D. <u>User Flow (SignIn)</u>

1. Navigate to "User flows" tab in Azure AD B2C directory main page.



2. Create a Sign In User flow (keep the version recommended).

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6. In "Application claims" tab, select all claims and save. Make sure "Email Addresses" and "Identity Provider Access Token" is selected, otherwise the B2C login in Dealer Portal will not work.

