



Axnosis

Demo script – Middleware App

Microsoft Dynamics 365 FO



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Prepared by:
Kaylen van der Berg

Foreword

Middleware is software that different applications use to communicate with each other. It provides functionality to connect applications intelligently and efficiently so that you can innovate faster. Middleware acts as a bridge between diverse technologies, tools, and databases so that you can integrate them seamlessly into a single system. The single system then provides a unified service to its users. We use node.js.

Middleware started as a bridge between new applications and legacy systems before it gained popularity in the 1980s. Developers initially used it to integrate new programs with earlier systems without rewriting the earlier code. Middleware has become an important communication and data management tool in distributed systems.

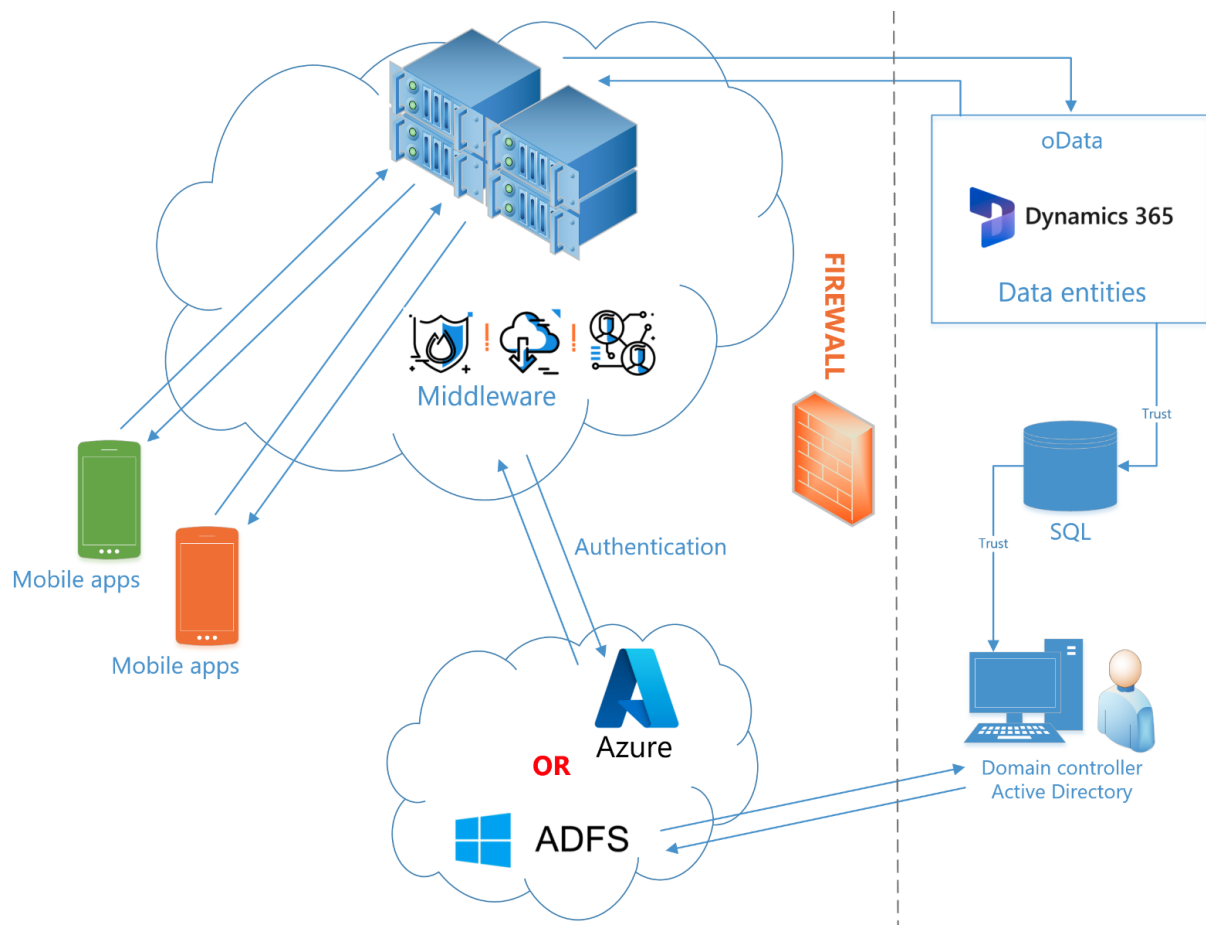
Our middleware is the bridge between Dynamics 365 F&O and our native mobile apps.

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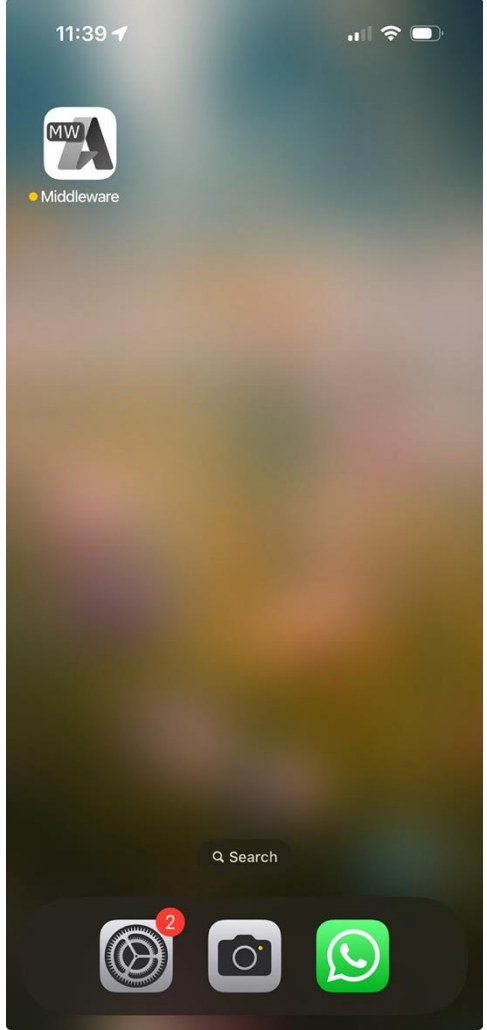
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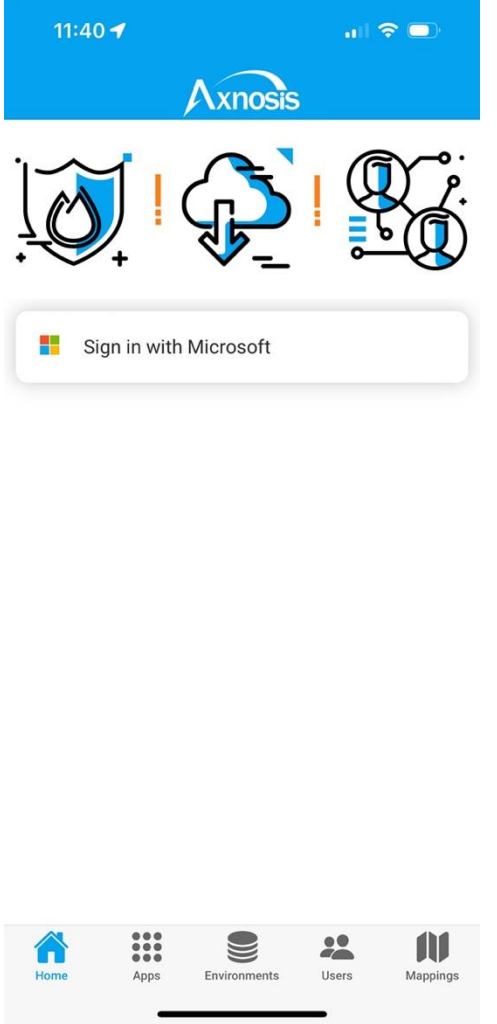
1. Technology



- Microsoft Dynamics 365 (D365 for Finance and Operations)
 - OHS & GRC modules
- Ionic/Angular standalone applications
 - ERM mobile application

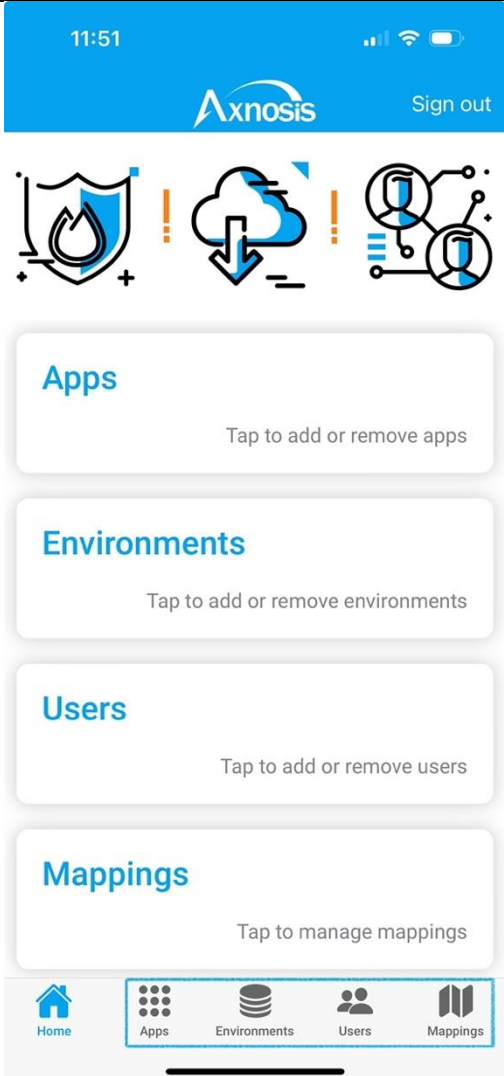


1.1 Navigating the Middleware app

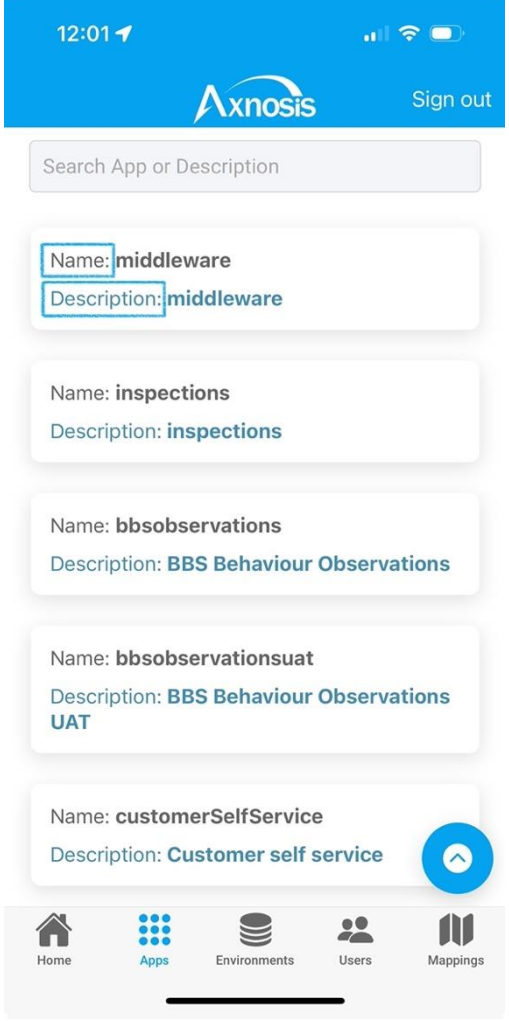
TALKING POINTS AND STEPS	MOBILE APP
<p>The user takes out his/her mobile phone and taps on the Middleware icon.</p>	

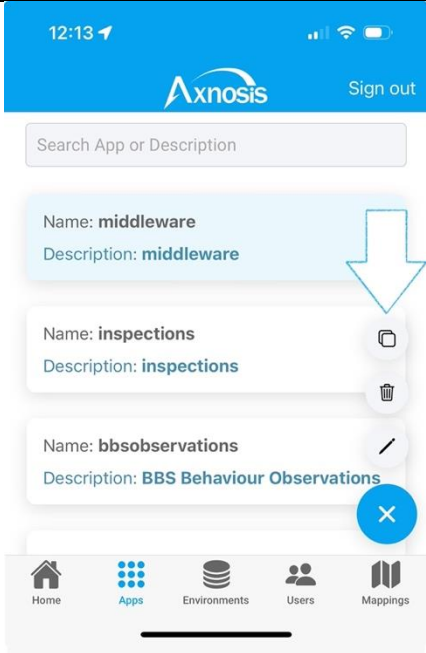
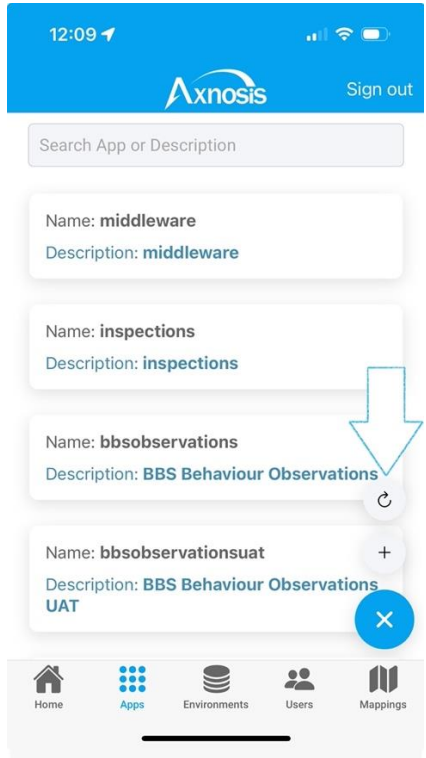
TALKING POINTS AND STEPS	MOBILE APP
<p>The home screen appears with the option to sign in with Microsoft.</p>	

TALKING POINTS AND STEPS	MOBILE APP
The user enters their email address and password to sign in.	<div><div>11:41</div><div> Sign in kaylen.vanderberg@axnosis.com Can't access your account? <div>BackNext</div><div>Sign-in options</div></div></div> <div><div>11:42</div><div> ← kaylen.vanderberg@axnosis.com Enter password Password Forgotten my password <div>Sign in</div></div></div>

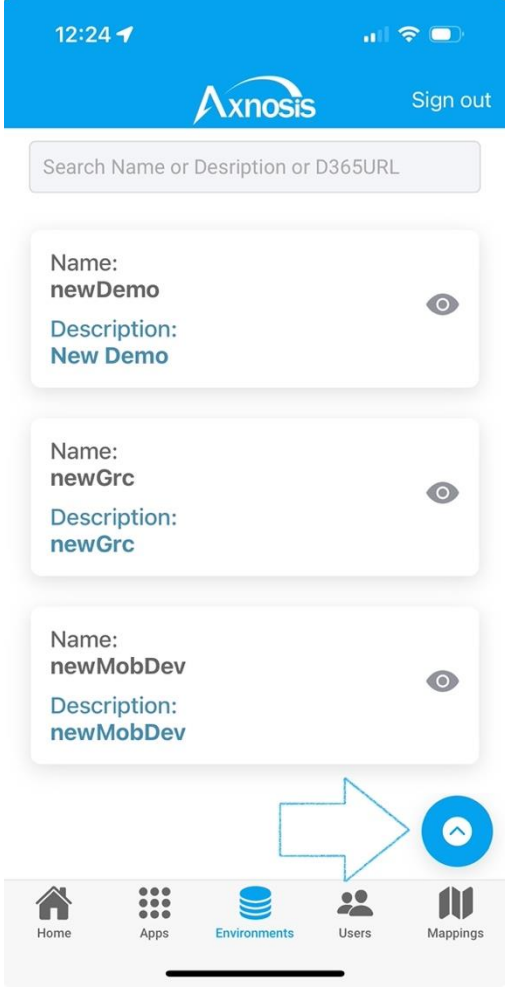
TALKING POINTS AND STEPS	MOBILE APP
<p>The home screen opens with the following options:</p> <ul style="list-style-type: none"> Apps Environments Users Mapping <p>These are the same options as the four tabs at the bottom of the screen.</p>	

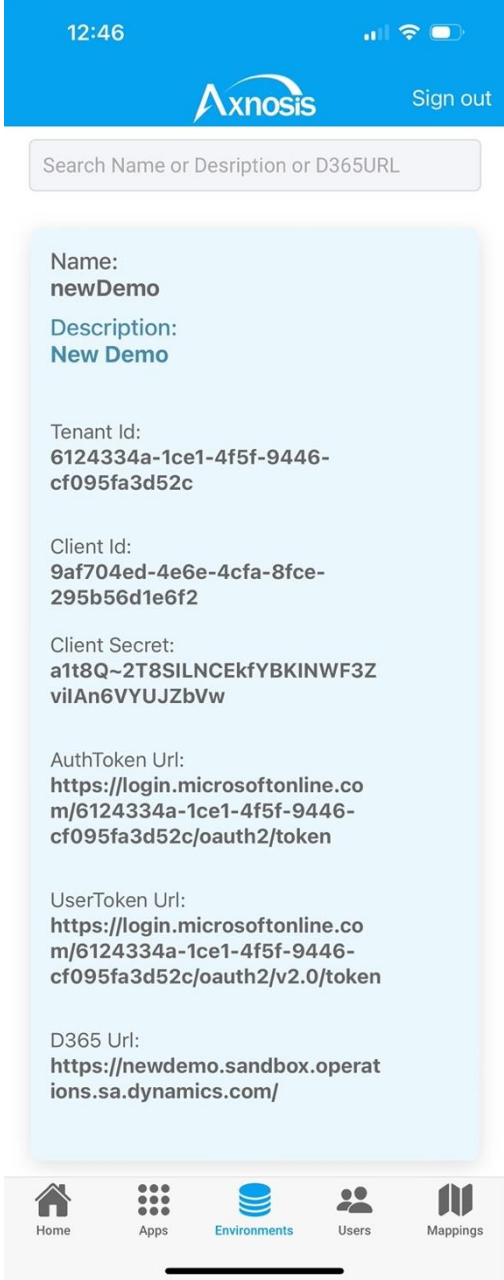
1.1.1 Apps tab

TALKING POINTS AND STEPS	MOBILE APP
<p>Click on the Apps tab.</p> <p>The screen opens with a display of all the different apps. Each app has a:</p> <ul style="list-style-type: none"> • Name and • Description 	 <p>The screenshot shows the Axnosis mobile app interface. At the top, there's a blue header with the Axnosis logo and a 'Sign out' button. Below the header is a search bar labeled 'Search App or Description'. The main content area displays a list of apps, each with a 'Name' and a 'Description'. The apps listed are:</p> <ul style="list-style-type: none"> Name: middleware, Description: middleware Name: inspections, Description: inspections Name: bbsobservations, Description: BBS Behaviour Observations Name: bbsobservationsuat, Description: BBS Behaviour Observations UAT Name: customerSelfService, Description: Customer self service <p>At the bottom, there's a navigation bar with icons for Home, Apps (selected), Environments, Users, and Mappings. A floating action button (FAB) with an upward arrow is also visible next to the last app entry.</p>

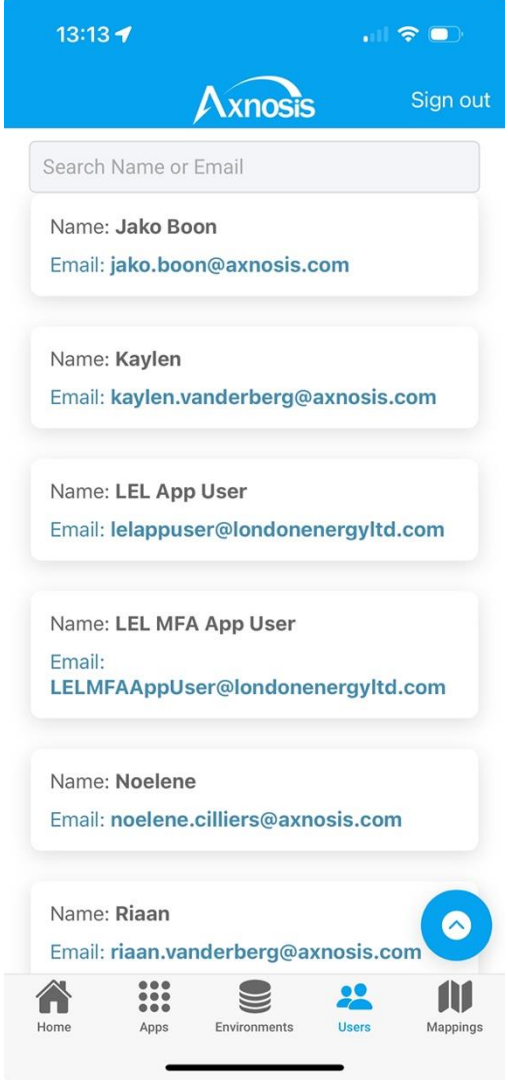
TALKING POINTS AND STEPS	MOBILE APP
<p>To edit the relevant app, select the app and click on the blue arrow in the bottom right-hand corner.</p> <p>To add an app or refresh the page, deselect the previous app and click on the blue arrow in the bottom right-hand corner.</p>	 

1.1.2 Environments tab

TALKING POINTS AND STEPS	MOBILE APP
<p>Click on the Environments tab at the bottom of the screen.</p> <p>The environments tab opens showing the various environments each app could be linked to.</p> <p>Each environments has a</p> <ul style="list-style-type: none"> • Name and • Description <p>To edit an environment select the relevant environment and click on the blue arrow in the bottom right corner, same as for the apps.</p>	 <p>The screenshot shows the Axnosis mobile app interface. At the top, there's a status bar with the time 12:24 and signal indicators. Below that is a blue header with the Axnosis logo and a 'Sign out' button. A search bar is present with the placeholder text 'Search Name or Description or D365URL'. The main content area lists three environments: 'newDemo', 'newGrc', and 'newMobDev'. Each environment card displays its name and description. At the bottom, there's a navigation bar with five icons: Home, Apps, Environments (which is highlighted), Users, and Mappings. A blue arrow points to the bottom right corner of the screen, specifically to the 'Environments' icon in the navigation bar.</p>

TALKING POINTS AND STEPS	MOBILE APP
<p>You can view all the details of the relevant environment by clicking on it.</p> <p>It then displays the following information:</p> <ul style="list-style-type: none"> • Name • Description • Tenant ID • Client ID • Client Secret • AuthToken URL • UserToken URL • D365 URL 	 <p>The screenshot shows the Axnosis mobile app interface. At the top, there's a blue header with the time 12:46, signal strength, Wi-Fi, and battery icons. Below the header is the Axnosis logo and a 'Sign out' button. A search bar is present with the placeholder text 'Search Name or Description or D365URL'. The main content area displays details for an environment named 'newDemo'. The details include: Name: newDemo, Description: New Demo, Tenant Id: 6124334a-1ce1-4f5f-9446-cf095fa3d52c, Client Id: 9af704ed-4e6e-4cfa-8fce-295b56d1e6f2, Client Secret: a1t8Q~2T8SILNCEkfYBKINWF3ZvilAn6VYUJZbVw, AuthToken Url: https://login.microsoftonline.com/6124334a-1ce1-4f5f-9446-cf095fa3d52c/oauth2/token, UserToken Url: https://login.microsoftonline.com/6124334a-1ce1-4f5f-9446-cf095fa3d52c/oauth2/v2.0/token, and D365 Url: https://newdemo.sandbox.operations.sa.dynamics.com/. At the bottom, there's a navigation bar with icons for Home, Apps, Environments (highlighted), Users, and Mappings.</p>

1.1.3 Users tab

TALKING POINTS AND STEPS	MOBILE APP
<p>Click on the Users tab at the bottom of the screen.</p> <p>Here you can view all the users who have access to the apps with their names and email addresses.</p> <p>As in the Apps and Environments tab, you can edit the different users by selecting the relevant user and clicking on the blue arrow.</p>	 <p>13:13</p> <p>Axnosis Sign out</p> <p>Search Name or Email</p> <p>Name: Jako Boon Email: jako.boon@axnosis.com</p> <p>Name: Kaylen Email: kaylen.vanderberg@axnosis.com</p> <p>Name: LEL App User Email: lelappuser@londonenergyltd.com</p> <p>Name: LEL MFA App User Email: LELMFAAppUser@londonenergyltd.com</p> <p>Name: Noelene Email: noelene.cilliers@axnosis.com</p> <p>Name: Riaan Email: riaan.vanderberg@axnosis.com</p> <p>Home Apps Environments Users Mappings</p>

1.1.4 Mapping tab

TALKING POINTS AND STEPS	MOBILE APP
<p>Click on the Mapping tab on the bottom of the screen.</p> <p>The Mapping screen shows the users that have access to certain apps and which environments certain apps are linked to.</p>	<div><div>13:25</div><div><div>Axnosis</div><div>Sign out</div></div></div> <div><div>Search User, App or Environment</div><div><div>User: riaan.vanderberg@axnosis.com</div><div>App: permits</div><div>Environment: newDemo</div></div><div><div>User: riaan.vanderberg@axnosis.com</div><div>App: All Apps</div><div>Environment: newGrc</div></div><div><div>User: demo@axnosis.com</div><div>App: inspections</div><div>Environment: newDemo</div></div><div><div>User: All Users</div><div>App: All Apps</div><div>Environment: newGrc</div></div></div> <div><div><div>Home</div><div>Apps</div><div>Environments</div><div>Users</div><div><div>Mappings</div></div></div></div>

1.1.5 Search and sign out

TALKING POINTS AND STEPS	MOBILE APP
<p>On all the screens throughout the app you can use the Search bar to find specific data.</p> <p>You can sign out of the Middleware app by clicking on the Sign out button in the top right corner.</p>	