Axnosis

Demo script – Middleware App

Microsoft Dynamics 365 FO

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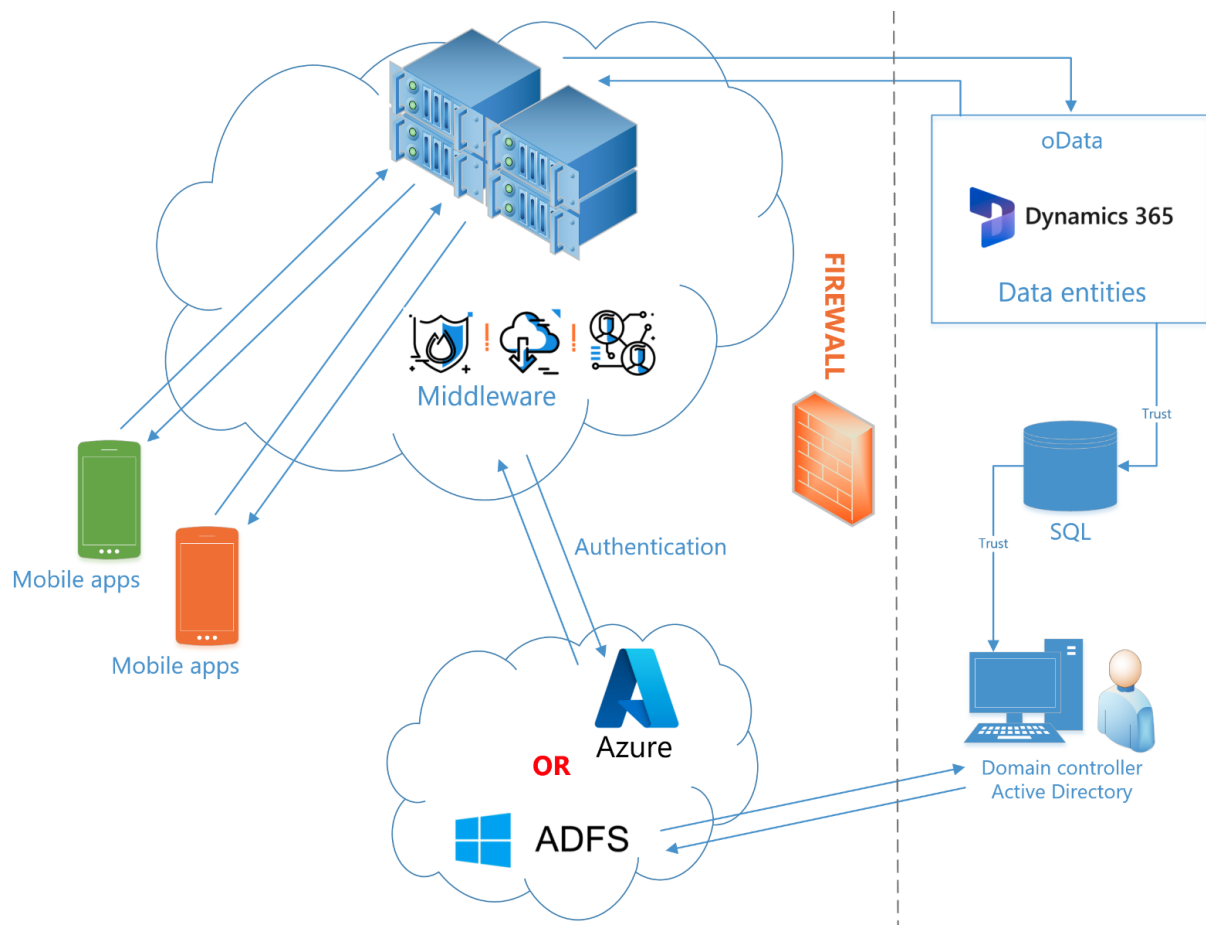
Our middleware is the bridge between Dynamics 365 F&O and our native mobile apps.
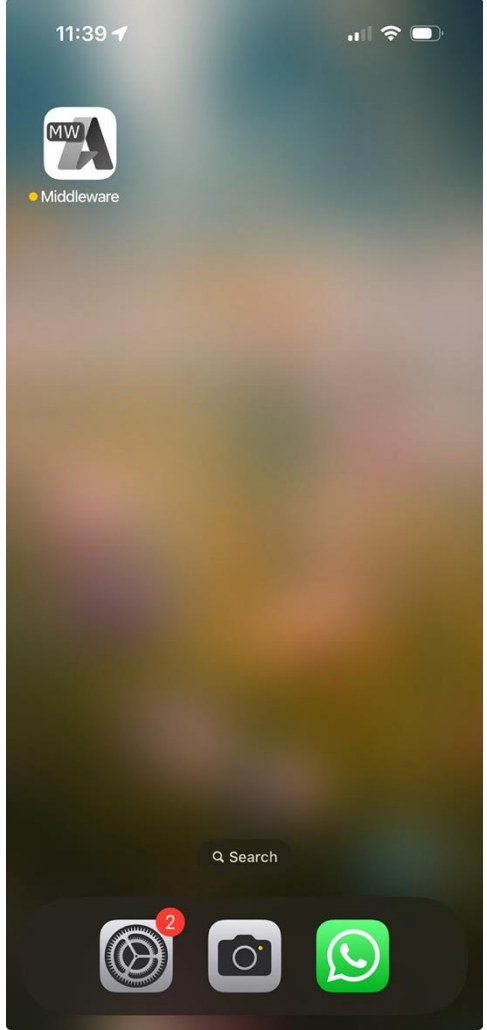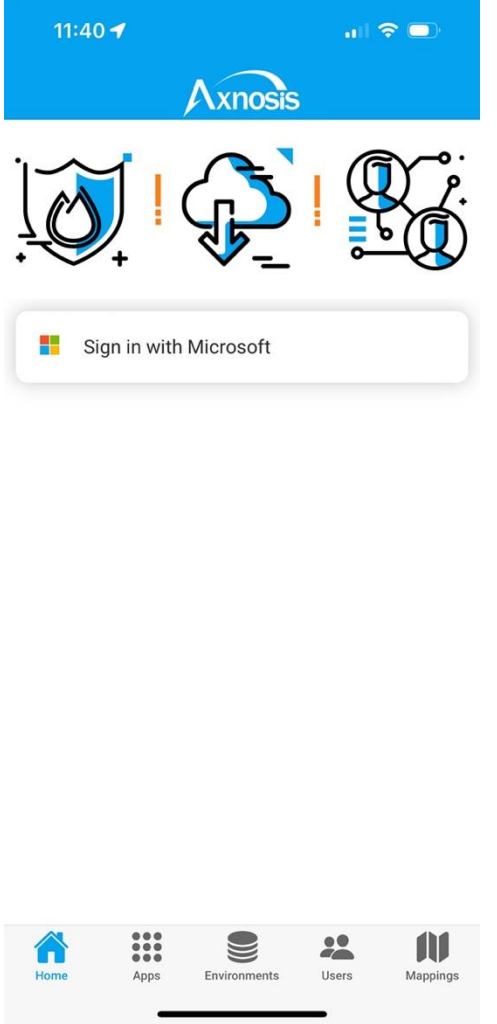
Table of Contents

1. Technology

- Microsoft Dynamics 365 (D365 for Finance and Operations)
    - o   OHS & GRC modules
- Ionic/Angular standalone applications
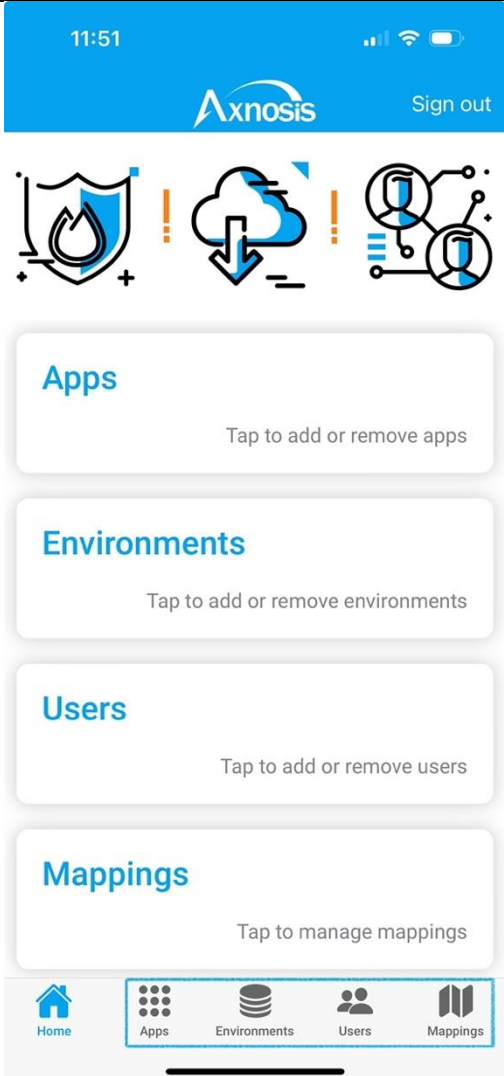   - o   ERM mobile application
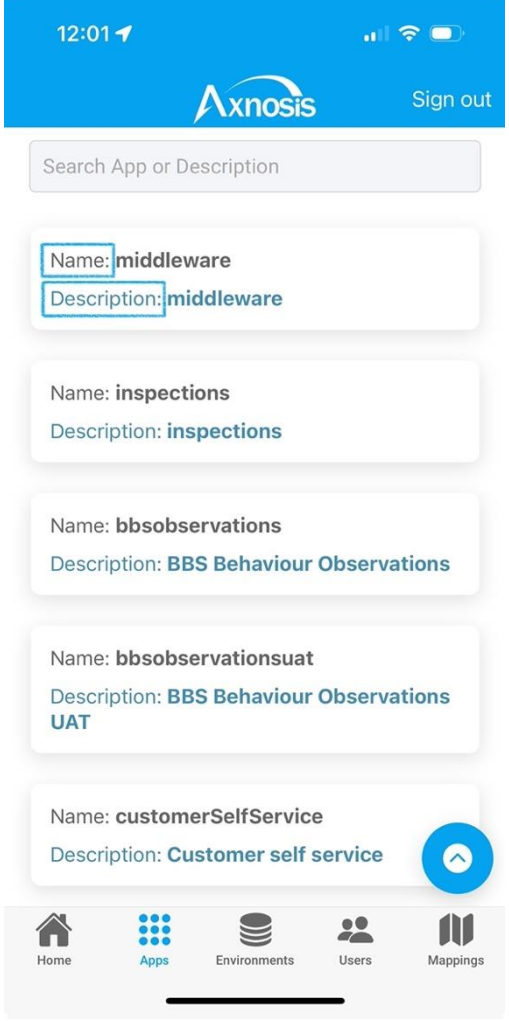
1.1 Navigating the Middleware app

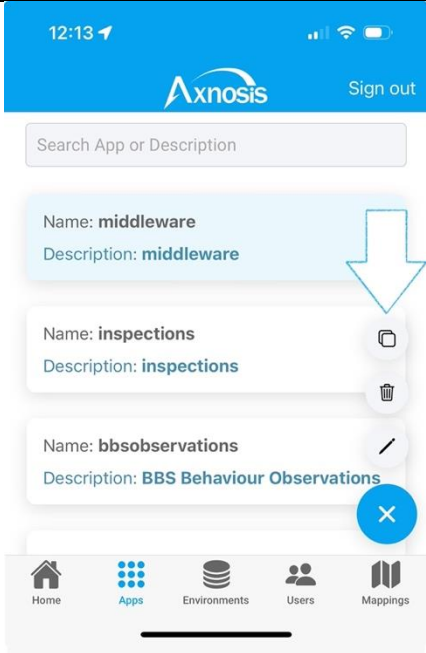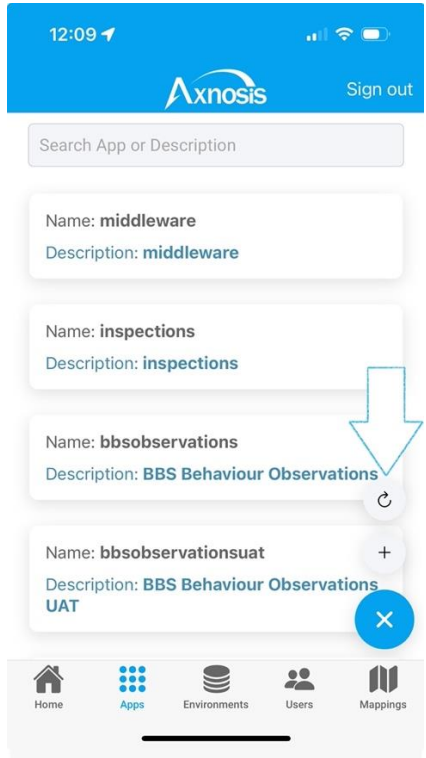| TALKING POINTS AND STEPS	MOBILE APP
The user takes out his/her mobile phone and taps on the **Middleware** icon.	

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

TALKING POINTS AND STEPS	MOBILE APP
The user enters their email address and password to sign in.	
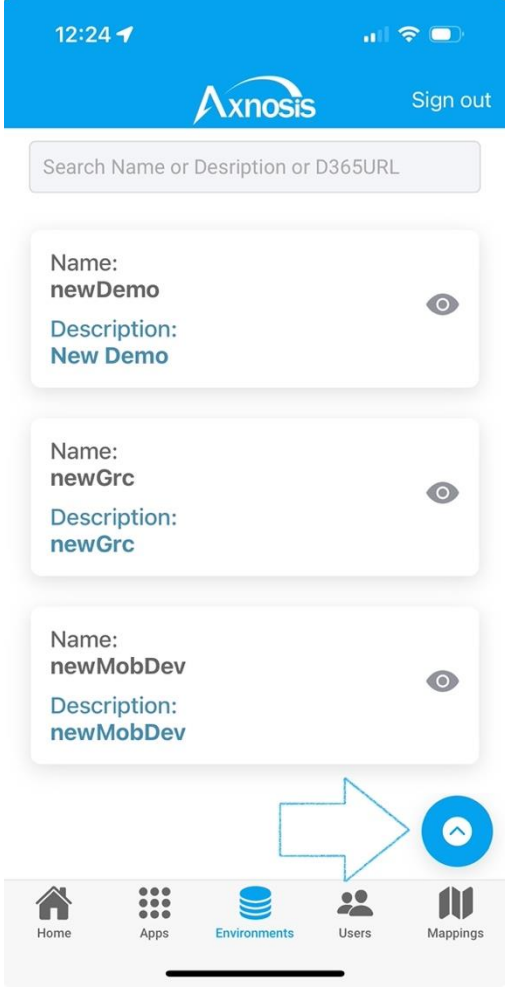
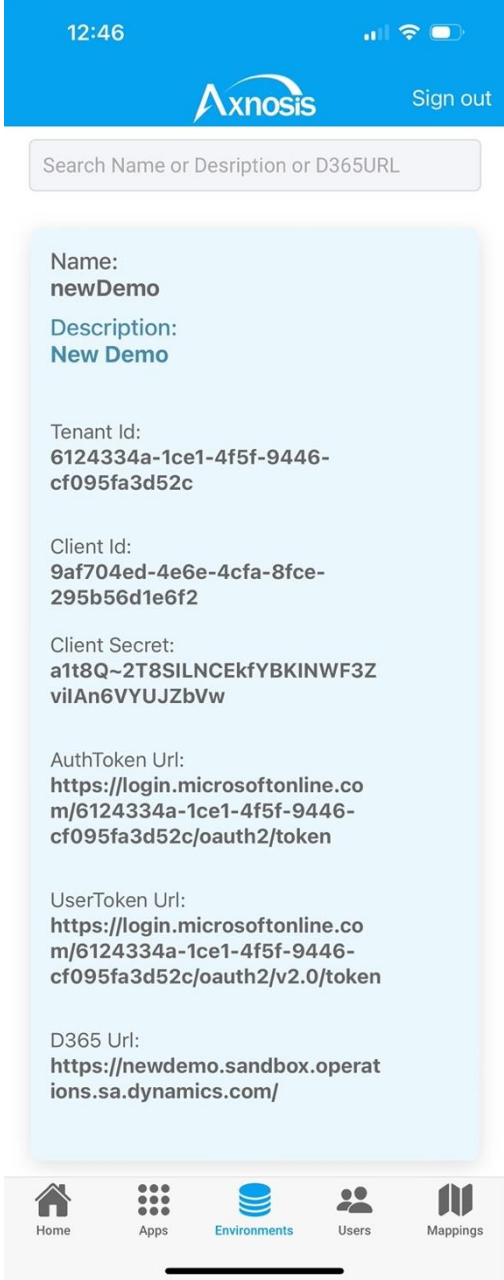| TALKING POINTS AND STEPS	MOBILE APP
The home screen opens with the following options: • Apps • Environments • Users • Mapping These are the same options as the four tabs at the bottom of the screen.	

1.1.1 Apps tab

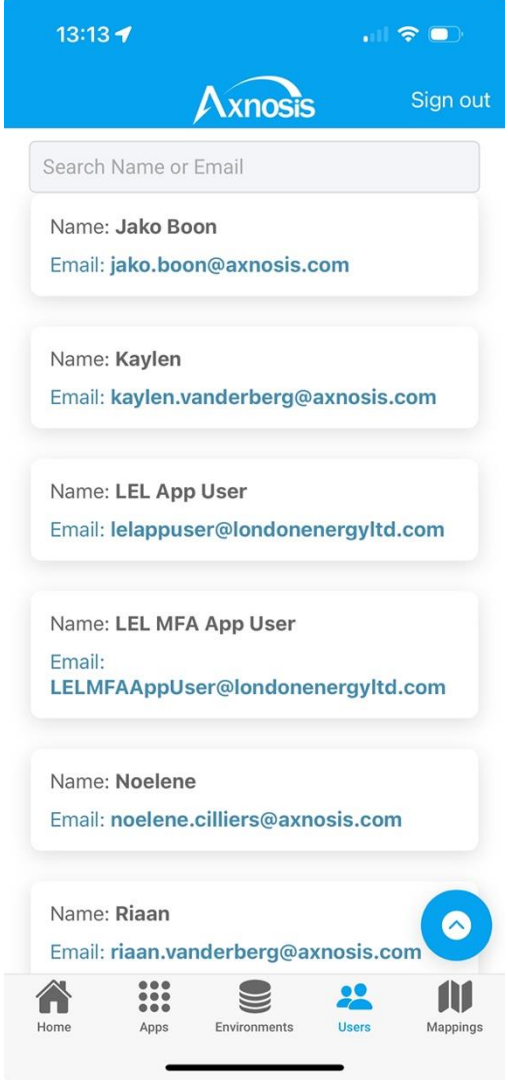| TALKING POINTS AND STEPS	MOBILE APP
Click on the **Apps** tab. The screen opens with a display of all the different apps. Each app has a: • **Name** and • **Description**	

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

1.1.2 Environments tab

TALKING POINTS AND STEPS	MOBILE APP
Click on the **Environments** tab at the bottom of the screen. The environments tab opens showing the various environments each app could be linked to. Each environments has a • **Name** and • **Description** To edit an environment select the relevant environment and click on the blue arrow in the bottom right corner, same as for the apps.	

TALKING POINTS AND STEPS	MOBILE APP
You can view all the details of the relevant environment by clicking on it. It then displays the following information: • Name • Description • Tenant ID • Client ID • Client Secret • AuthToken URL • UserToken URL • D365 URL	**12:46** **Axnosis** Sign out Search Name or Desription or D365URL 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** D365 Url: **https://newdemo.sandbox.operations.sa.dynamics.com/** Home Apps Environments Users Mappings

1.1.3 Users tab

TALKING POINTS AND STEPS	MOBILE APP
Click on the **Users** tab at the bottom of the screen. Here you can view all the users who have access to the apps with their names and email addresses. As in the **Apps** and **Environments** tab, you can edit the different users by selecting the relevant user and clicking on the blue arrow.	

1.1.4 Mapping tab

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

1.1.5 Search and sign out

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