Housing App Accelerator User Documentation

Prepared for: Github



Document Title

| Title | Housing App Accelerator User Documentation | | |
|-------------------------|--|--|--|
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| Current Version | Release 1.0 | | |
| File Name | Housing App Accelerator User Documentation | | |
| Publication Date | Mar 24, 2023 | | |

Revision History

| Version | Date | | Author | Changes |
|---------|---------------|----|--------|-----------------|
| 1.0 | Mar 2 2023 | 4, | | Initial Release |
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1 Introduction

In a constantly changing society challenged by social debates, economic upheaval, war, and natural disasters, nonprofits serve a crucial role in supplying aid and well-being to the communities where they operate. We at Avanade are committed to helping nonprofit organizations and the social sector fulfill their missions and accelerate their digital transformation.

To stand with those impacted by a humanitarian crisis, the Nonprofit Housing Accelerator will allow organizations to digitalize housing processes and governance allowing them to expand their housing offering and quickly find appropriate housing. At the same time, we hope the accelerator provides people whose lives and livelihoods are shattered by conflict and disaster, a safe home to recover and gain control of their future.

By leveraging our experience in the NGO sector and expertise with Microsoft solutions, we created a Housing Accelerator embedded within the Common Data Model for Nonprofits, Microsoft Nonprofit Accelerator, and aligned with Avanade best practices.

Simple and effective Digital Housing platform

Embedded within the Nonprofit Common Data Model, the accelerator will support nonprofit organizations in the processing, governance and insights of housing applications and locations. Giving organizations the ability to quickly manage refugee needs and facilitate safe housing.

Powered by the nonprofit cloud and Dynamics.

The accelerator aligns the capabilities of Microsoft 365, Power Platform, Dynamics 365 and Azure to address common nonprofit scenarios. Making it user friendly, compliant, and adaptable to market developments and social challenges. Housing accelerator can easily be incorporated into the other nonprofit processes like volunteer management, case management, Marketing and Constituent Insights.

Support growth and expansion

Based on the Microsoft Framework, the solution is secure and offers a resilient, easy to integrate, scalable Platform that grows with you.

1.1 What This Document Is

This document is a general overview of the features and functionality in the Housing App Accelerator. In addition, the document attempts to address what is specific towards administering Housing App Accelerator that may be different from administering a standard Dynamics environment. As an Administrator, you can configure and manage the solution to ensure that your organization gets the most out of its features and functionality. You should have some familiarity with Dynamics before attempting to use this guide.

1.2 What This Document Is Not



This document does not attempt to provide an overview of how to be an administrator on the Dynamics platform in general.

1.3 Audience

This document is intended for all users of the Housing App Accelerator. The document assumes a basic knowledge of Microsoft Dynamics concepts and services.

1.4 Document Notes

Throughout the document we will summarize the outputs of each section. These outputs can be categorized under the following headings:



Note

This header is to make the reader aware of something specific in the document and will give some additional context to the section.



Important Note

This header is to ensure the reader is fully aware of the point being highlighted. The information provided should be fully considered when understanding the context of the section.



Recommendation

A recommendation being made by Avanade, but not necessarily a design decision.



Assumption

Assumptions on configurations and requirements are listed.



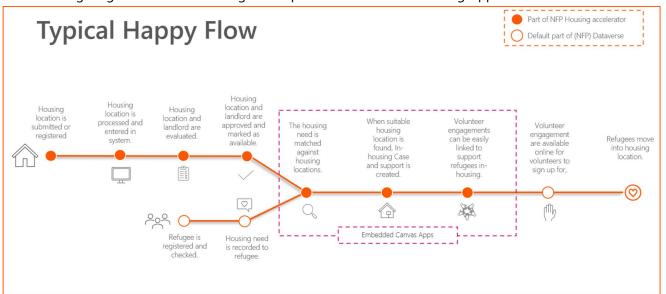
Design Decision

A design decision based on Avanade/Microsoft recommended best practices.



2 Process Overview - Happy Path Flow

The following diagram illustrates the high-level process flow for the Housing App:



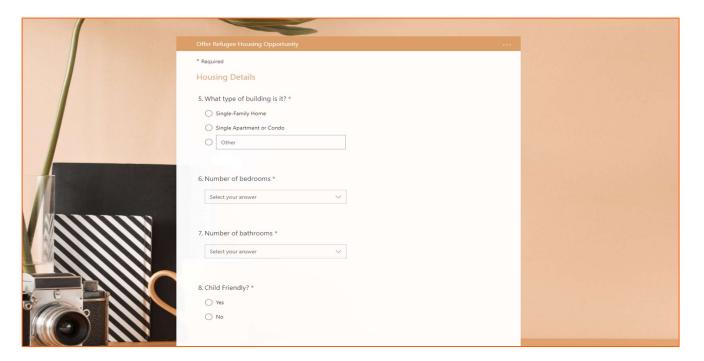


3 Step by Step Guide

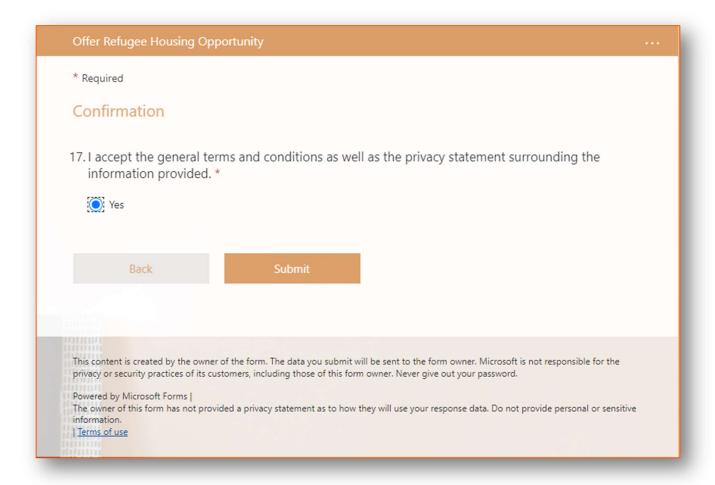
3.1 Housing Location Submission

Housing location submission can be done by landlords/ homeowners by filling in a form that is enabled by Microsoft Forms. The link of the Microsoft Forms can be shared across different channels including email, teams or posted on a website etc. The solution package comes with a predefined Microsoft Forms template with a set of questions, which can also be modified based on the housing submission details that need to be captured.

1. The submission process starts when a landlord (stored as a contact) submits a Microsoft Form made available to the landlord as shown in the following screenshot:

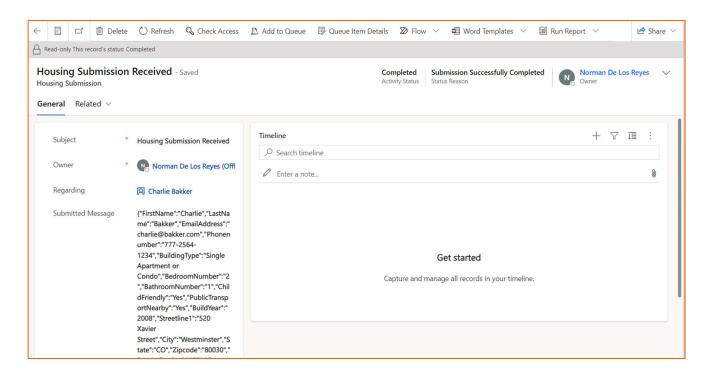


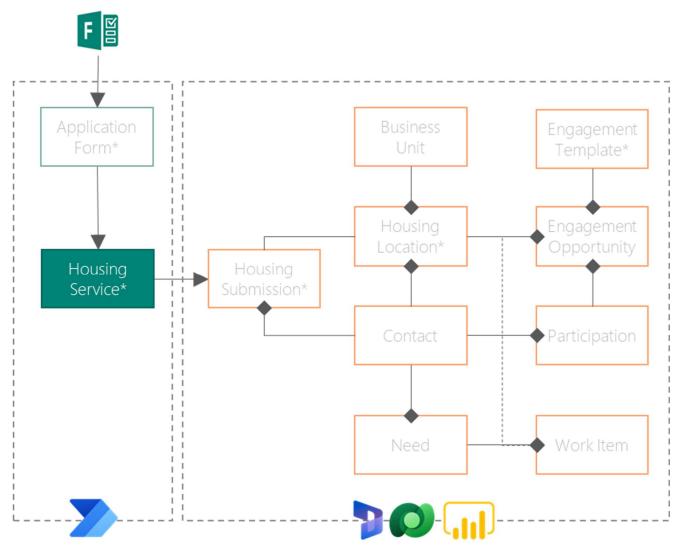




- 2. Once the form is submitted, the NFP Housing Service, powered by Power Automate, triggers and takes all the questionnaire inputs as submitted in the form and processes those to create the following record:
 - a. Housing Submission Activity: This record type is used to track a housing submission activity that was initiated and helps the user see all the data that was present as part of submission. Administrators can monitor the logs to troubleshoot any issue if the Housing or Landlord records are not created/updated as expected.

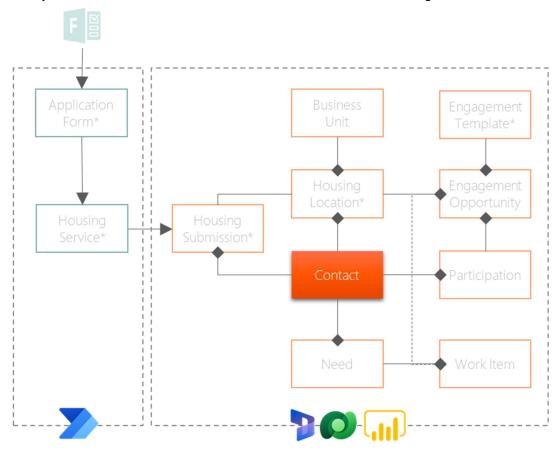






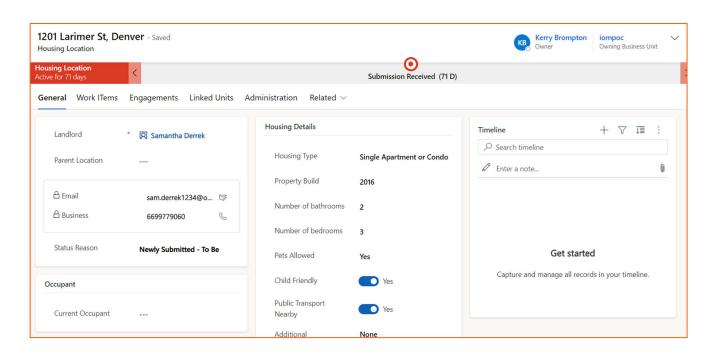


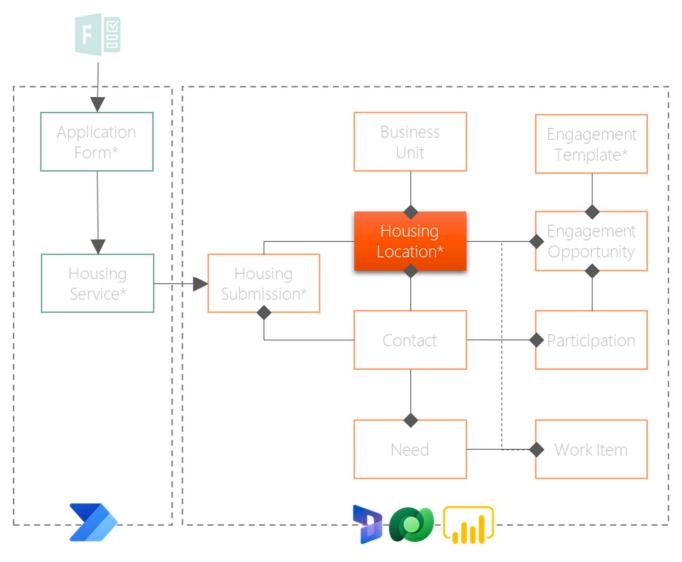
b. Landlord: This record is stored as part of Contact table to identify all the Landlords present in the system and track all the related General Information and Housing Details.



- c. Housing Locations: This record type is used to store the housing details such as the location, address, type of property, other property features, status of the Housing etc. The Housing Location will contain all submitted housing details including:
 - Linked Landlord
 - Address
 - Housing Type
 - Number of Rooms
 - Number of Bedrooms
 - Number of Bathrooms
 - Kitchen appliances
 - Community services and nearby facilities.
 - Targeted Rent
 - Availability options
 - Other attributes can be added as needed.



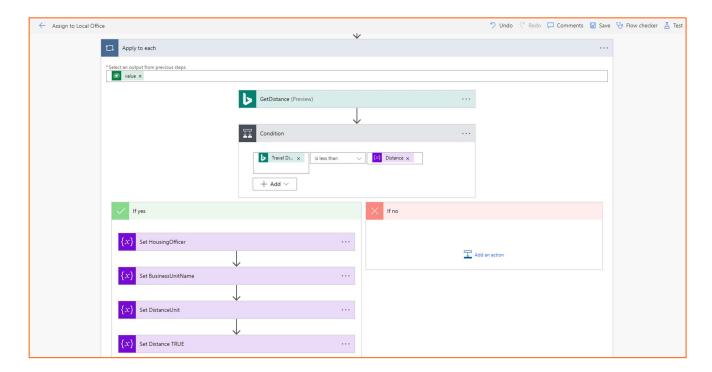




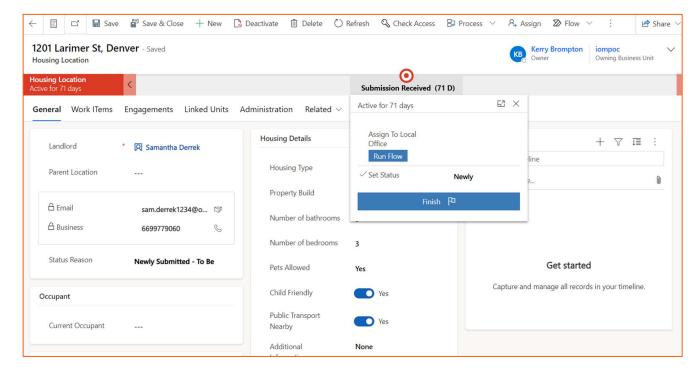


3.2 Housing Location Evaluation and Approval

After a Housing location record is created in the system, it can be assigned to the nearest local office by using the prebuilt power automate that geolocates the housing address and assigns to the nearest business unit (office) based on geolocation saved at the business unit level.



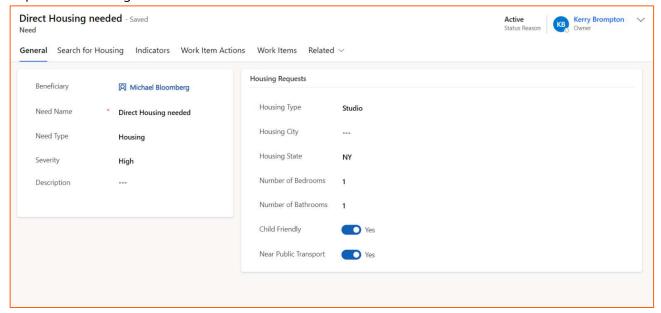
When the housing location record is created, it is initially in the "Newly Submitted – To be Approved" status. After the details are validated, it can be changed to "Approved – Available" so that it shows up while searching for a housing need. A Default process flow has been added to guide possible due diligence checks and trigger GEO assignment.





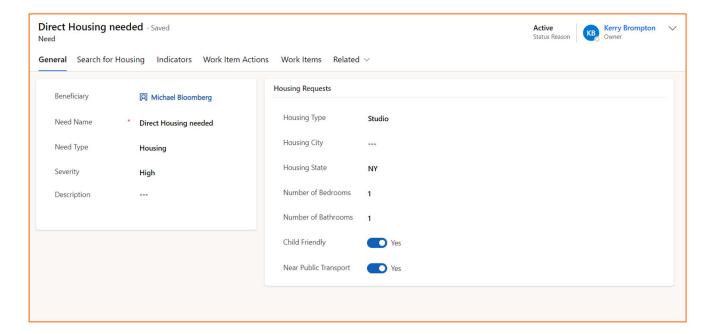
3.3 Housing Need Matching

A Housing Need can be captured in the system via different sources. The accelerator utilizes the 'Need' record type present as part of the Common Data Model for Nonprofits. The following details are captured as part of a Housing Need:

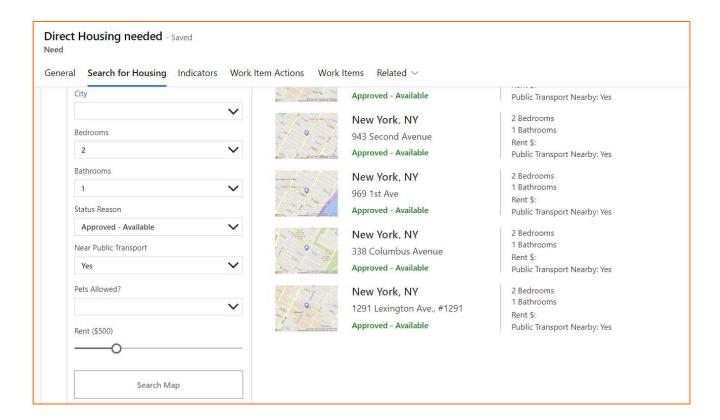


Once a Need is captured, an embedded canvas app on the Need form allows the user to search the available housing location by using filters and the results display using a map view. The default filter on Search for Housing tab is set same as the values set on the General tab. User can change the filter to view the results either directly in a list view or a map view. By default, a list view is shown which can be changed to a map view by clicking on "Search Map" present on the left below the filters.

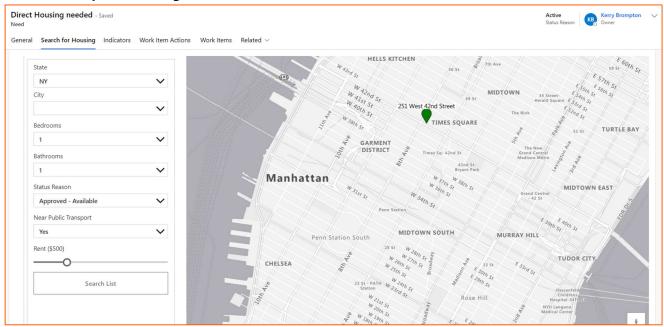
Direct Search for Housing





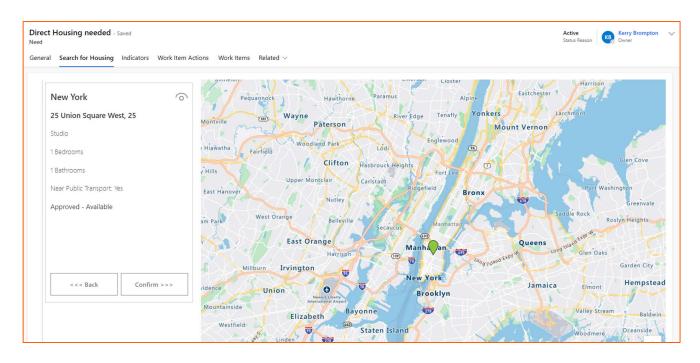


Search on Map for Housing



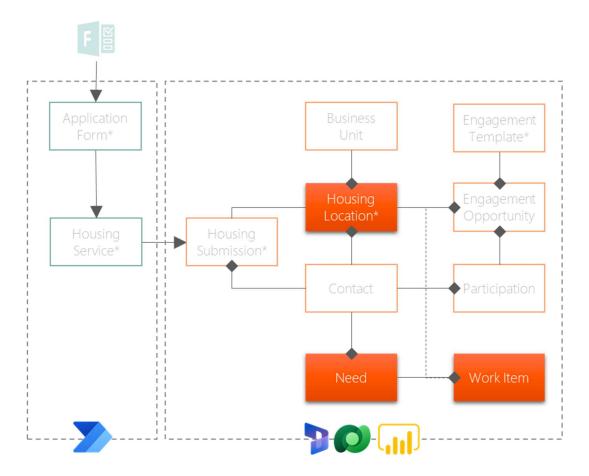
Once a Need is matched or a housing location and is selected based on the Need, a work item gets created via the app to provide all necessary support for the housing location.





| Direct Housing ne | eded - Saved | Active Status Reason | KB Kerry Brompton Owner | ~ | | | | | |
|------------------------------------|---|-------------------------|-------------------------|---|--|--|--|--|--|
| General Search for H | Housing Indicators Work Item Actions Work Items R | elated ∨ | | | | | | | |
| Create Work Item for Housing Match | | | | | | | | | |
| Title | InHousing Requested New York | | | | | | | | |
| Comment | | | | | | | | | |
| | | | | | | | | | |
| Need: | Direct Housing needed | | | | | | | | |
| Housing: | 25 Union Square West, 25 | | | | | | | | |
| Beneficiary: | Michael Bloomberg | | | | | | | | |
| | Create Work Item | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |



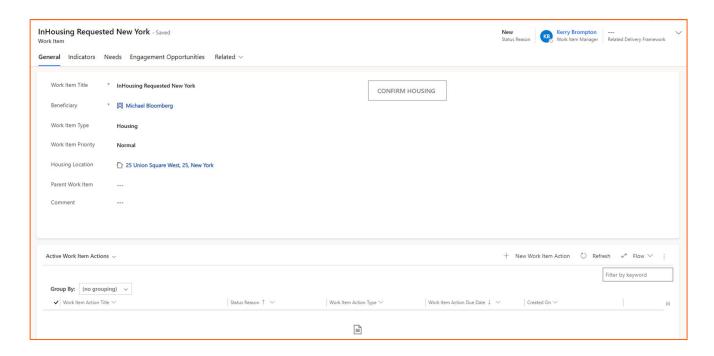


3.4 Housing Case and Support Management

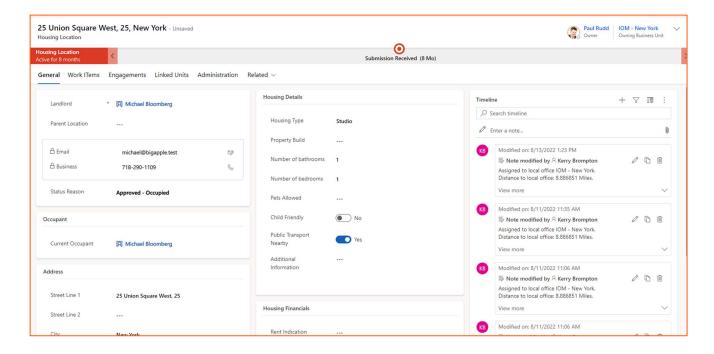
The accelerator utilizes "Work Items", and "Work Item Actions" record types present as part of the Common Data Model for Nonprofits to help manage the housing work items. It provides flexibility for creating work items. For instance, the solution package contains an automated process to create quick work items associated against a Need to perform the necessary actions to "Confirm Housing" (using a simple canvas app) and make the matched housing ready and available.

The accelerator allows defining Work Item Title, Beneficiary, Work Item Type, Work Item Priority, Housing Location, Parent Work Item and Comments. A Work Item can be assigned to a team or a user, and multiple work item actions/ task can be added as shown below:





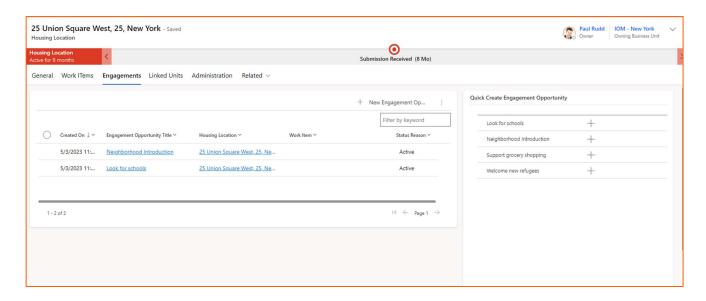
Below screenshot shows automated changing of Housing Location Status and Current Occupant on click of "Confirm Housing":

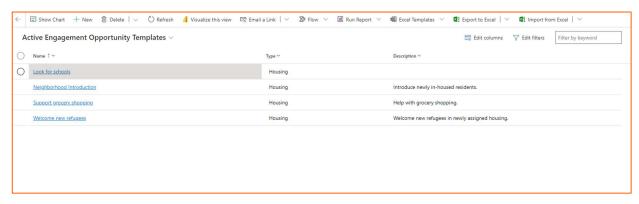


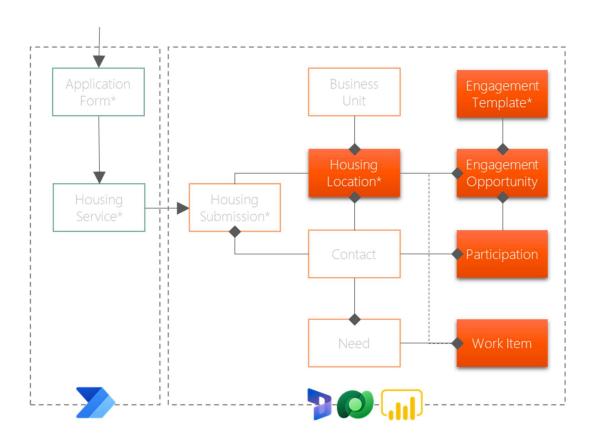
3.5 Linking to Volunteer Engagement

A housing location can be linked to a Volunteer Engagement Opportunity. Volunteers can register to help at locations for e.g., *Welcoming, Grocery Support, Cleaning, etc.* Engagement templates, which are records to store different types of volunteering opportunities, can be quickly created at housing locations as well as for a work item though an embedded canvas app.









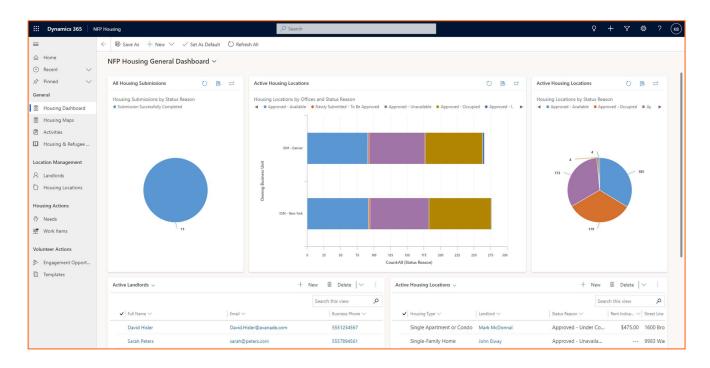


4 Dashboards & Reports

Various Dashboards have been created to provide insights into Housing Submissions and Active Locations. At the same time, Map visualizations are available to:

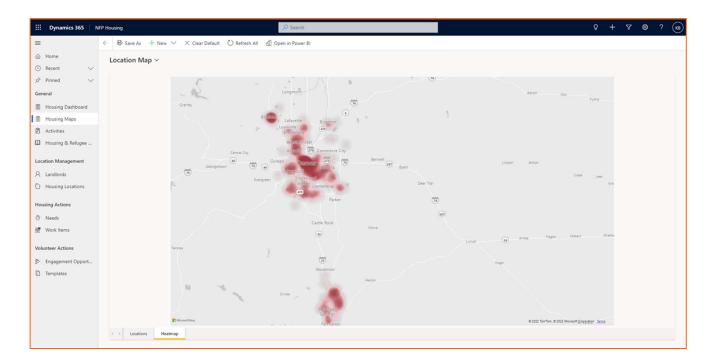
- Plot housing opportunities on a geographical area with sliders for main property characteristics.
- Area coverage (heatmap) of housing opportunities on a geographical area with sliders on main property characteristics.

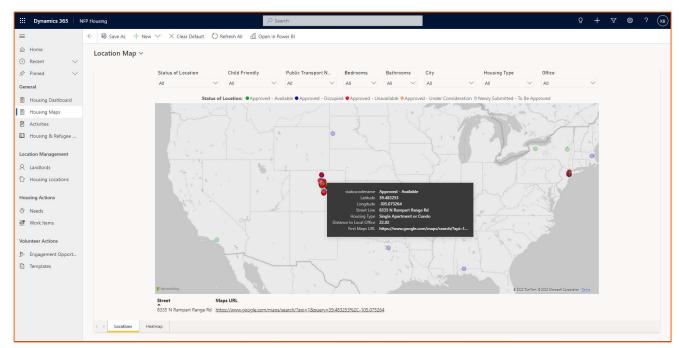
Insights into Housing Locations



Location Map and Heatmap of Area Coverage







To learn more about the Housing App Accelerator or see a demo, contact us by visiting:

https://www.avanade.com/en-us/about-avanade/story/corporate-citizenship/technology-for-social-good

