# Join a Community sample

This sample demonstrates how to use app-only permissions from a provider-hosted app to perform operations the user would not otherwise be allowed to perform.

## Description of the sample

This sample allows a user to search for Community sites within the current site collection. The results of the search indicate whether or not the user is a member of each individual Community site. The search returns the top 25 sites based on the total number of members. This allows the most-popular sites to appear at the top of the results. If the user wants to see a sample of the activity in the site, they may display the top 10 questions from the site by order of popularity. After looking over the information, the user can link to the site and become a member.

## Prerequisites

This sample requires the following;

A SharePoint 2013 development environment.

Visual Studio 2012 and Office 2013 Tools for Visual Studio 2012.

## Key components of the sample

The sample is a provider app written using the MVC4 project template. Most of the relevant code can be found in the CommunitiesController.cs This controller executes searches to discover Community sites within the current site collection. It then uses the managed client-side object model to read the membership list for the site and determine if the current user is a member. Because the current user may not have sufficient rights to read the membership list, the app uses app-only permissions and requests the right to read all lists in the site collection.

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## Configure the sample

The sample requires no special configuration, however, you may want to create a few Community sites before testing the sample.

## Run and test the sample

1. Open the JoinACommunity.sln solution in Visual Studio 2012.
2. Edit the Site URL property to refer to a test site where you will deploy the solution.
3. Edit the web.config appSettings to refer to your test certificate.
4. Press F5.
5. When prompted, grant permissions for the app.
6. When the app appears, you will see default search results showing the Top 25 Community sites by membership.
7. Use the free text box to serach for Community sites with keywords.
8. Click the “Top Questions” link to view the top questions from a Community site.
9. Click the associated site link to join a site.

## Troubleshooting

Ensure that your web.config settings are correct for your environment.

## Change log

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## Related content

SharePoint 2013 provider-hosted apps

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MVC4