



NORTHERN

ePMP Mobile App With SharePoint Connection

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Abstract

Internet is essential for people to be connected to the world and help areas with the advancement of technology. Some areas (rural) however, do not have access to the internet and this is where Cambium Networks has a solution. Cambium Networks sell point to multipoint access points and can provide wireless internet in areas where internet with old mediums (copper and fiber optic) is not possible. Cambium Networks uses third party installers (Channel Partners) to install their products. Channel Partners currently log into a slow inefficient portal and Cambium Networks wants to provide a faster, more efficient solution by, means of mobile application. The mobile application will have a connection to Microsoft SharePoint, which will provide Cambium Networks an easy way of managing data, and avoiding connection to their enterprise data.



Cambium Networks



Goals

The team had to meet certain goals set by Cambium Networks based off their Technical Requirements Documents (TRD):

- Developing a mobile application based on Cambium Networks website.
- Completing the opening page with Cambium Networks logo.
- Having six pages with respected functionality.
- Providing an application available for Android and iOS platforms.
- Establishing a connection with Microsoft SharePoint to use for displaying and retrieving data.
- Using iterative design as application prototypes progress.

Process

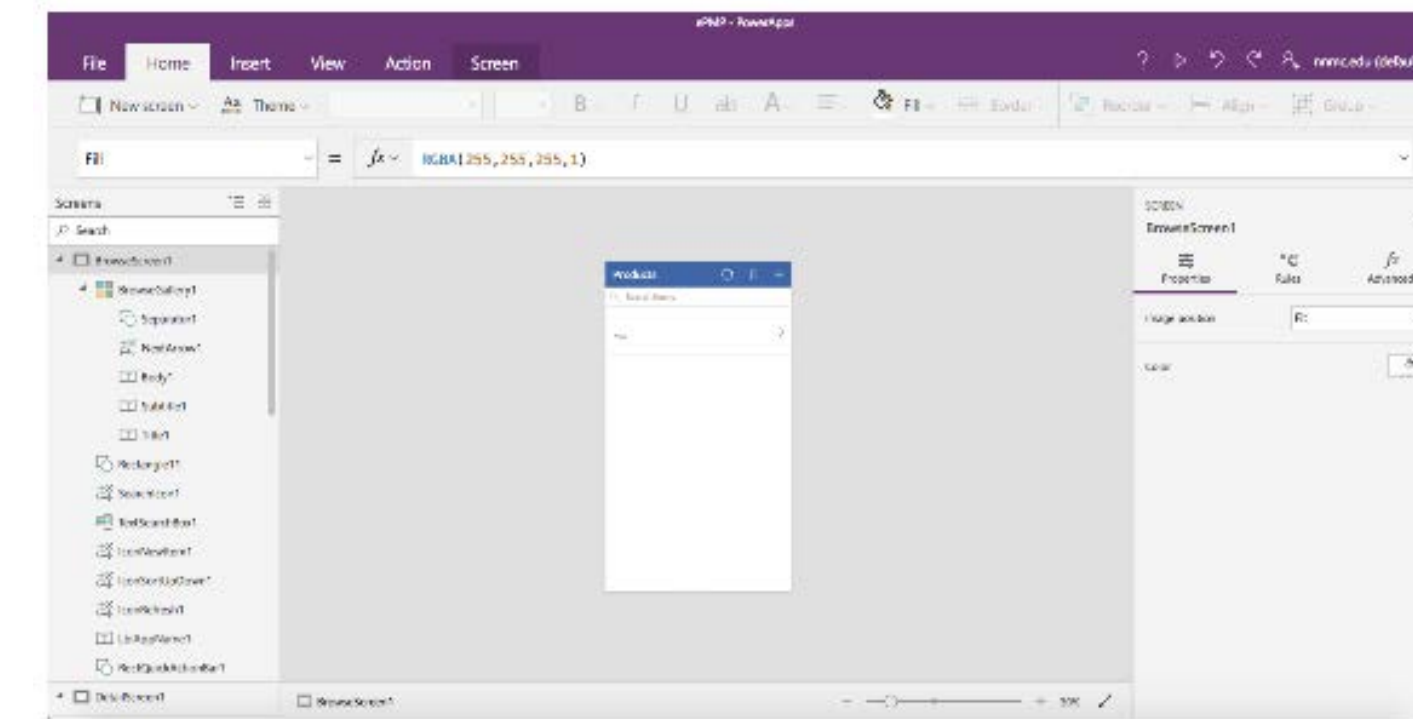


Figure 1. PowerApps editing screen

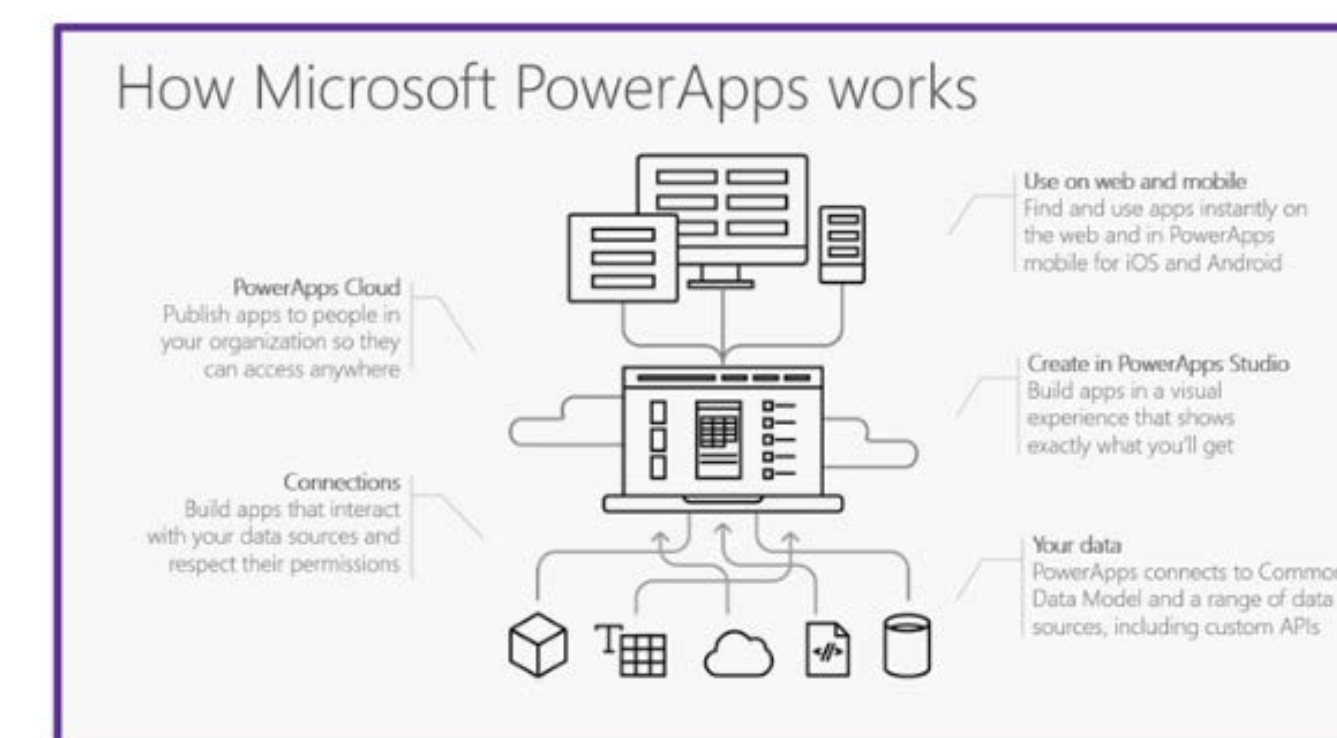


Figure 2. A brief description on how PowerApps works

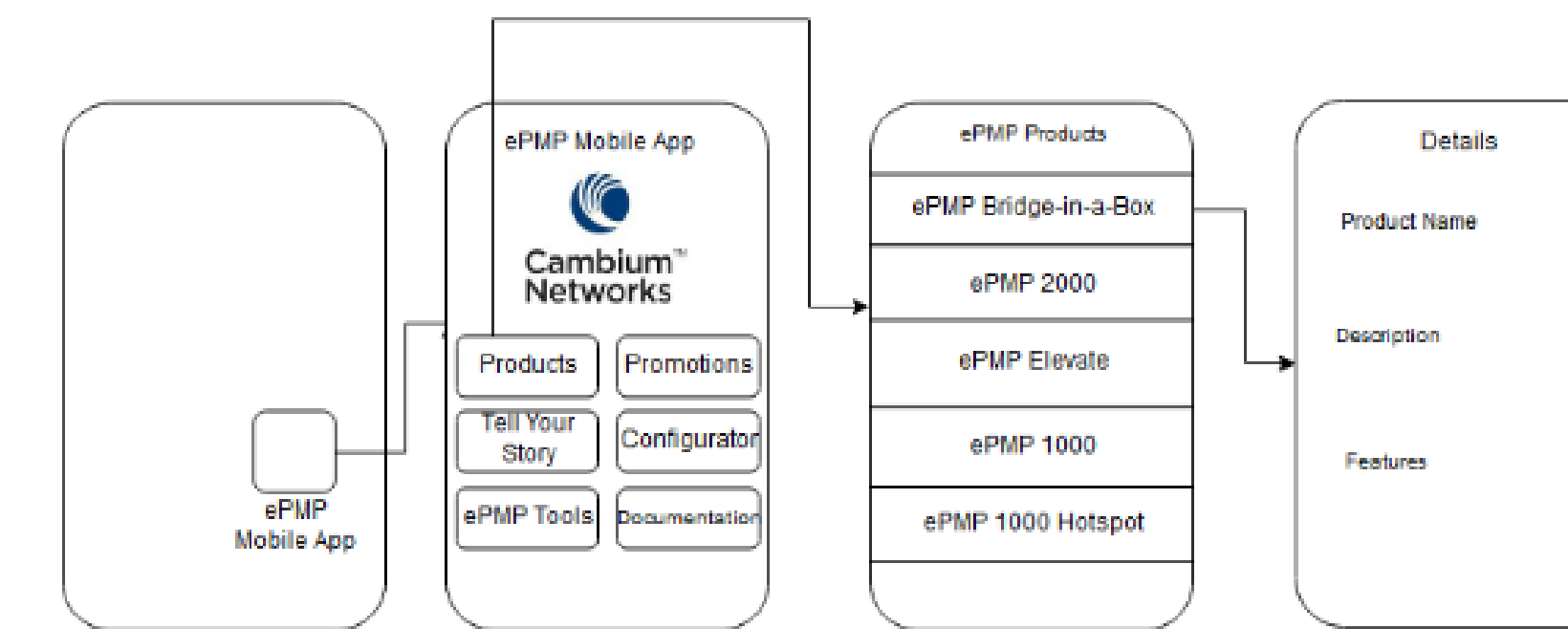


Figure 3. The flowchart showing the data for the products is retrieved from the SharePoint site when the "Products" button is pushed

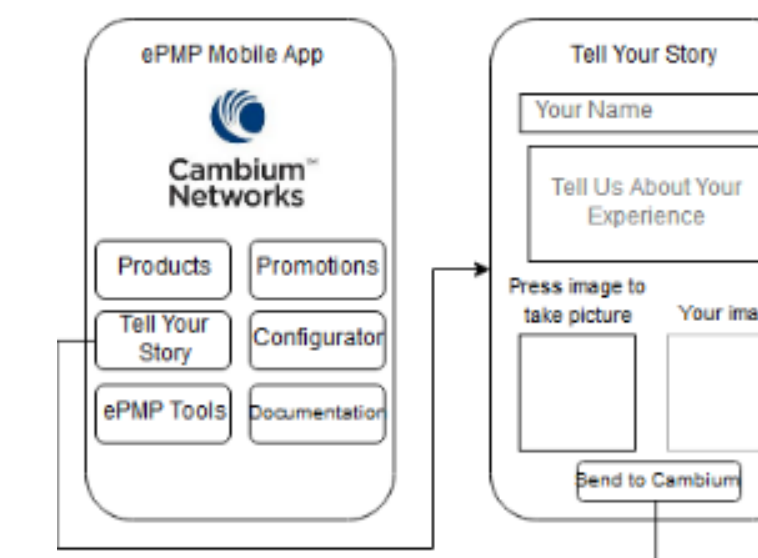


Figure 4. "Tell Your Story" allows a user to submit a review to Cambium Networks

Procedures

- Take Cambium Networks Portal and make it into mobile application
- Design mobile app based off Technical Required Documents (TRD) provided by Cambium Networks
- Make flowcharts to get a visual on how the mobile app will interact with users
- Connect mobile app to SharePoint so a user can view data from Cambium Networks
- Get mobile app to run on both Android and iOS
- Test mobile app

Main TRD (buttons for the mobile app):

1. Products
2. Tell Your Story
3. ePMP Tools
4. Promotions
5. Configurator
6. Documentation

Materials

- > Computer
- > PowerApps IDE
- > Microsoft SharePoint Account
- > Technical Requirements Document (TRD)
- > Android Phone
- > iOS Phone
- > Phone Conference with Cambium Network Representative



References

- <https://products.office.com/en-us/sharepoint/sharepoint-server>
- <https://powerapps.microsoft.com/en-us/>
- <https://www.apple.com/>
- <https://www.android.com/>

Results

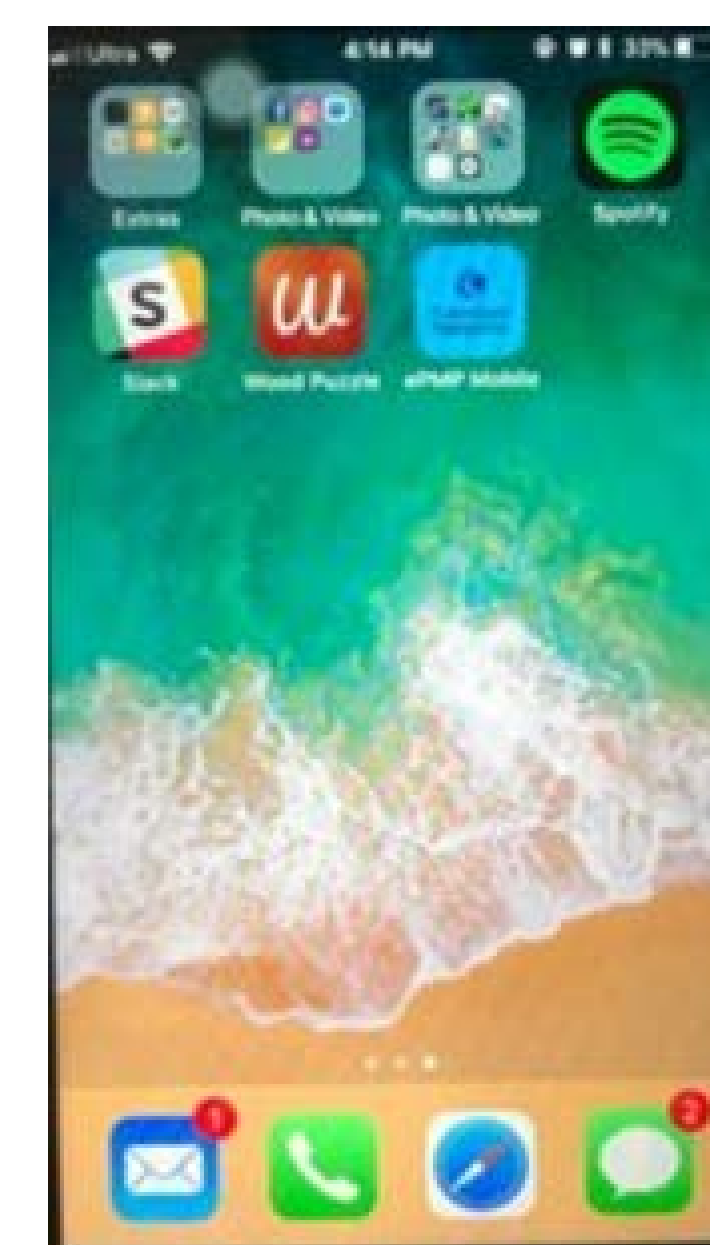


Figure 5. ePMP App icon



Figure 6. Landing Screen

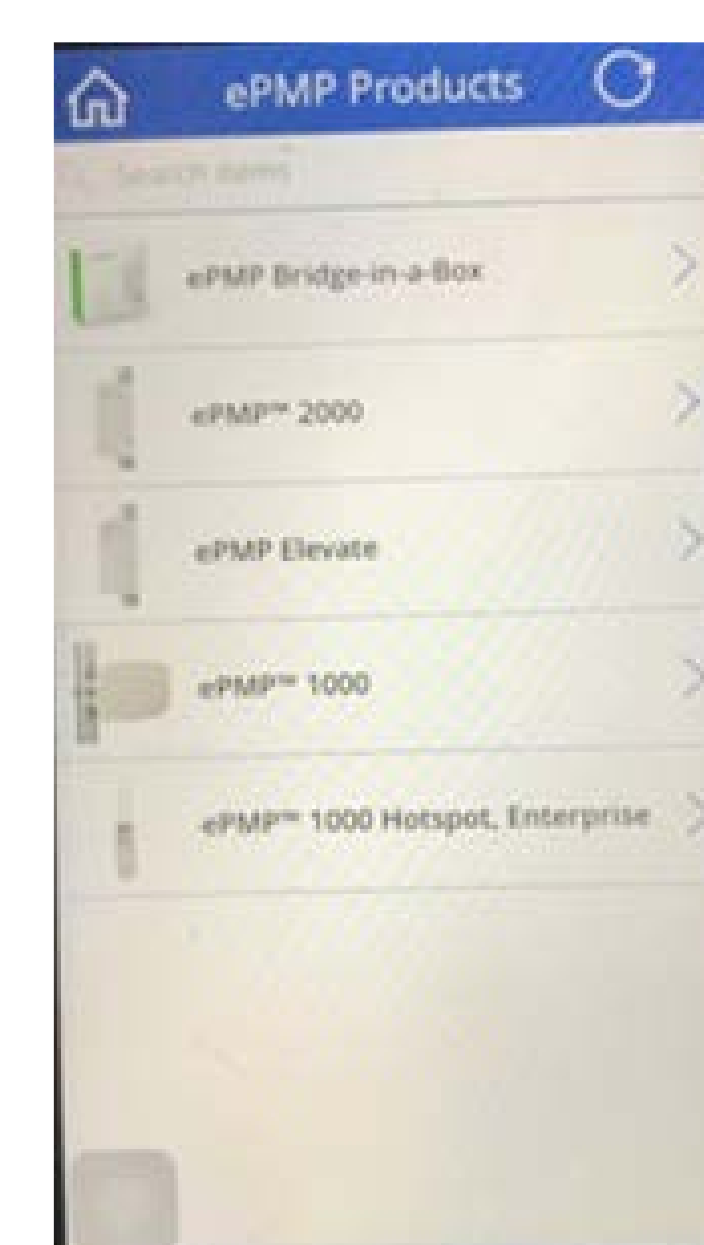


Figure 7. ePMP Product Page



Figure 8. ePMP Product Details

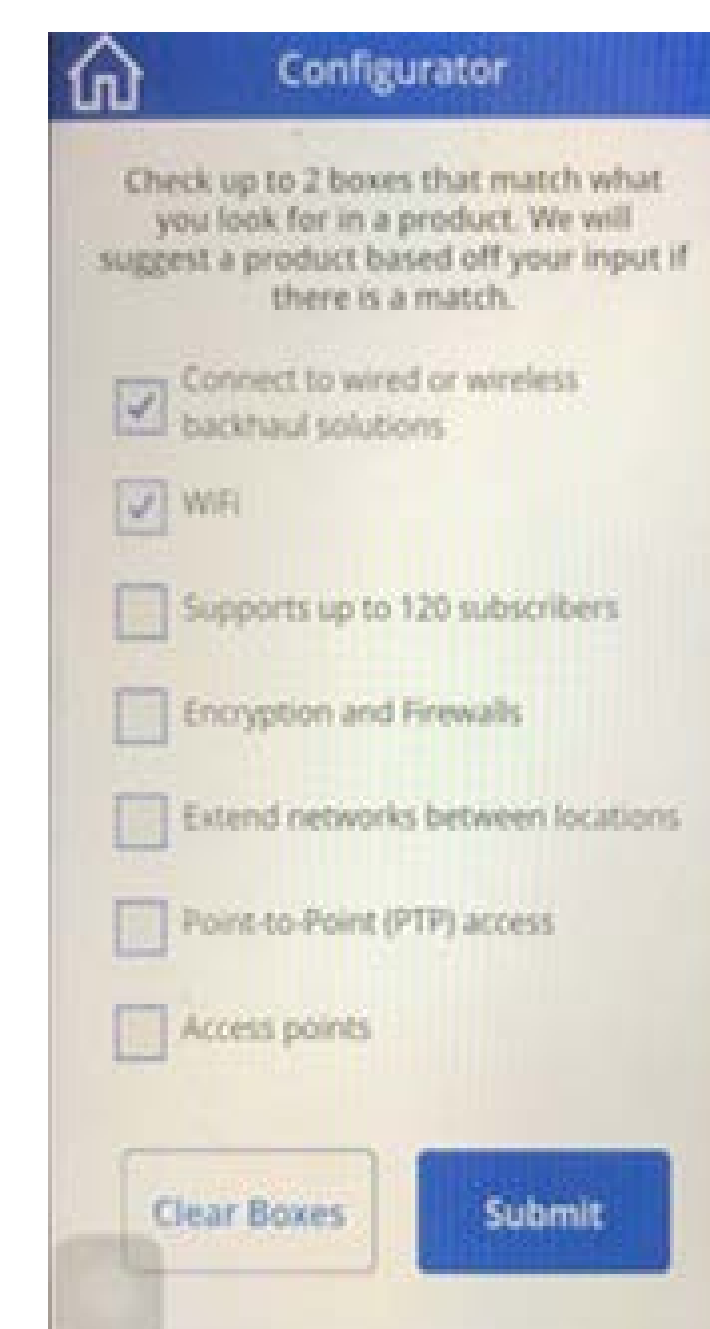


Figure 9. ePMP App Configurator

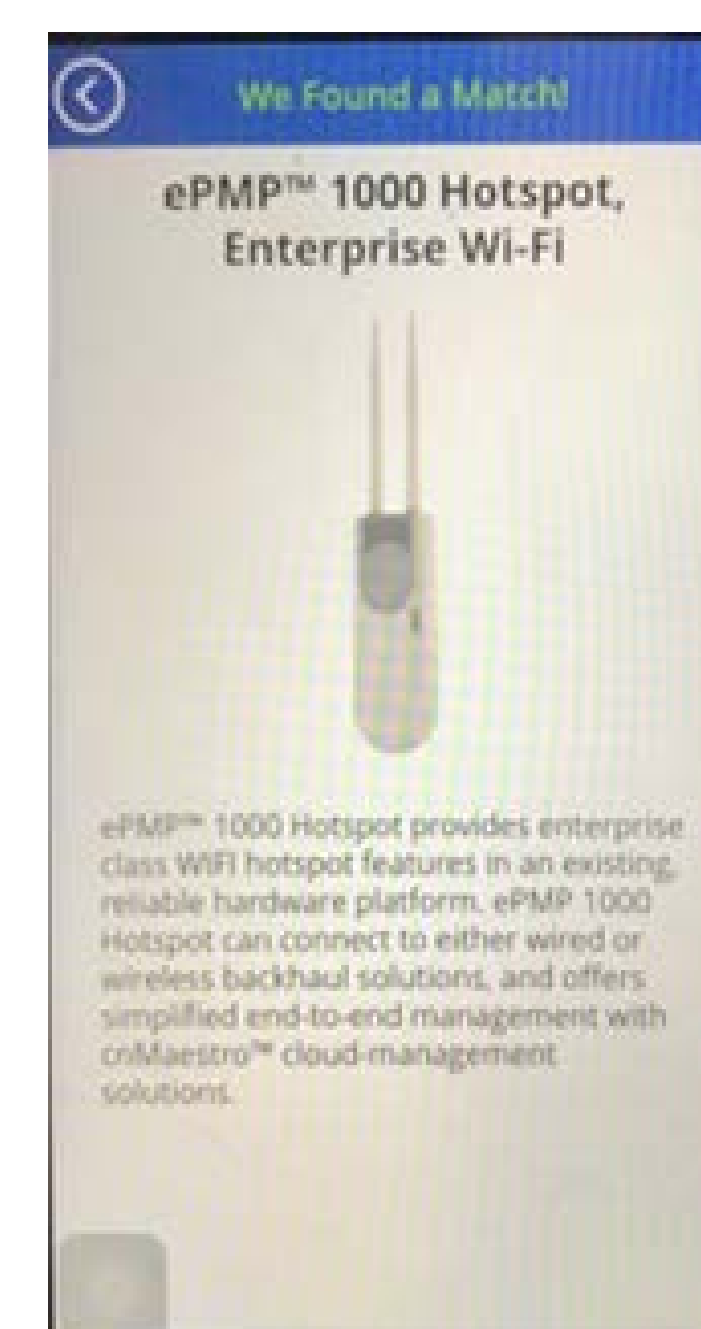


Figure 10. ePMP App Configurator Results

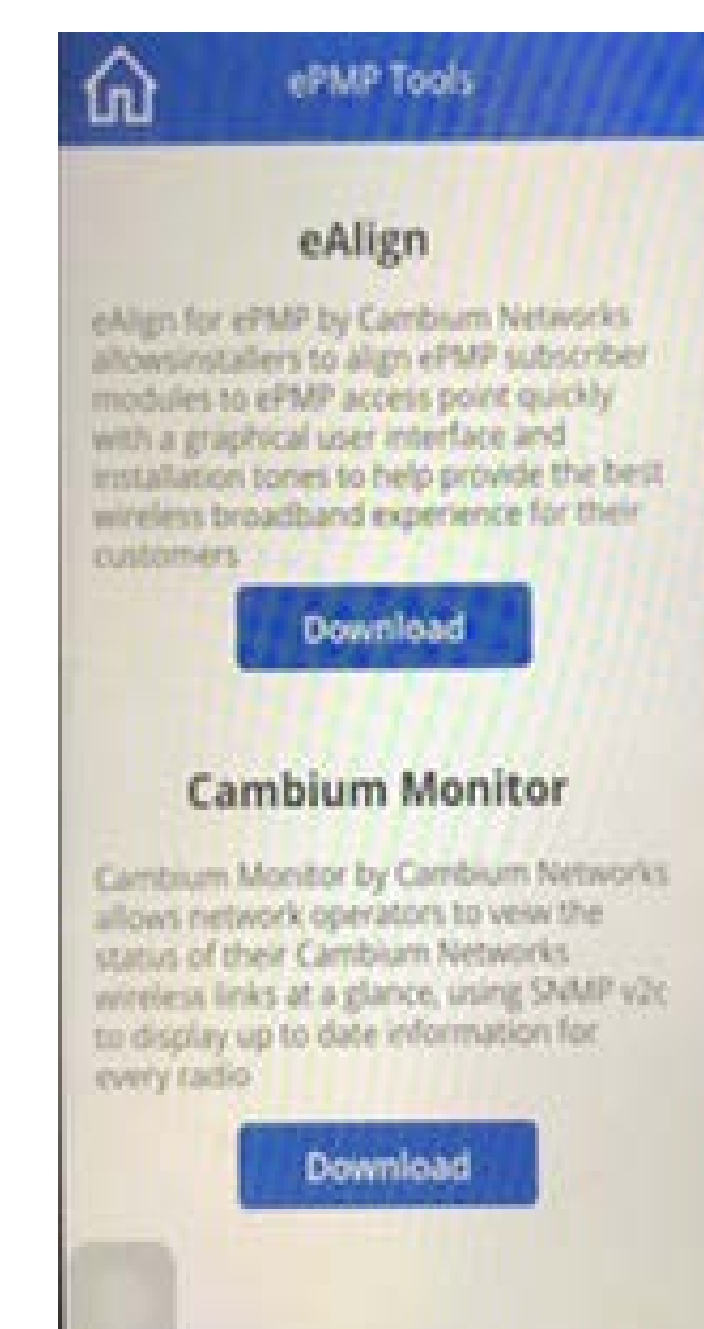


Figure 11. ePMP App Links Page

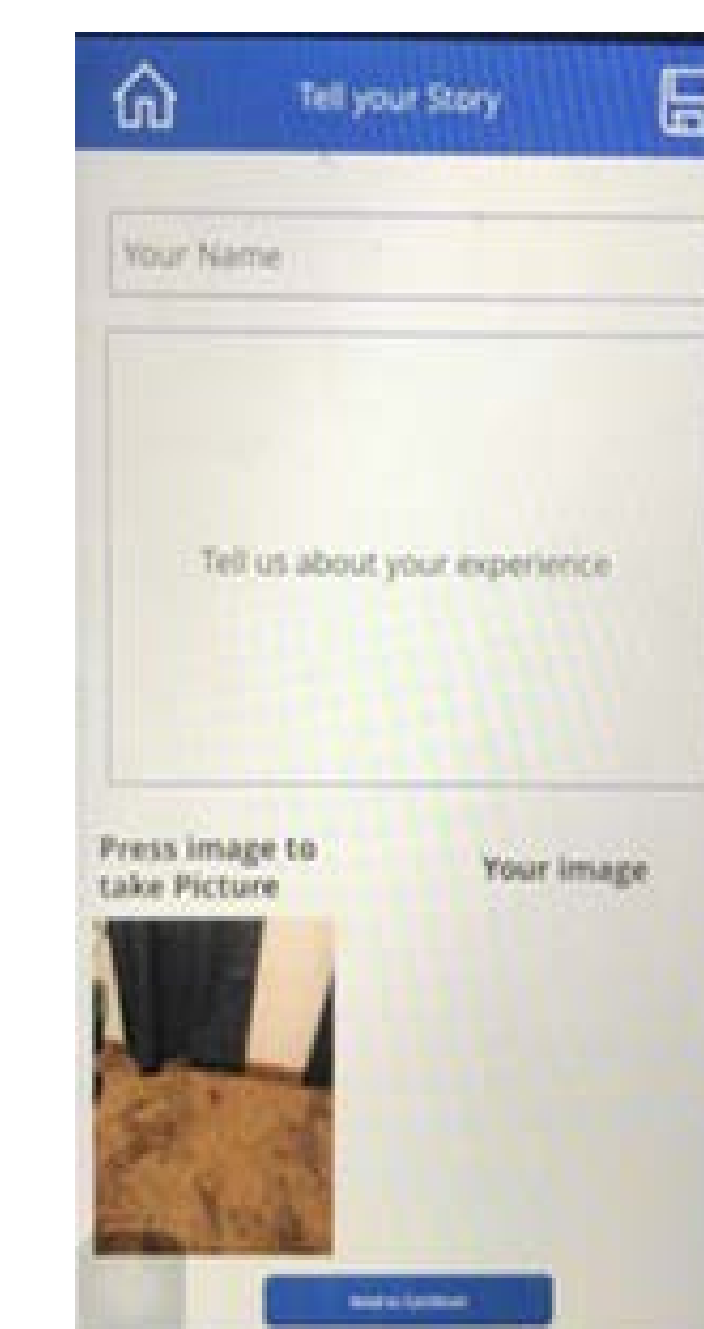


Figure 12. ePMP App Tell Your Story