Overview

• Customization Scenarios

• AppStudio for ArcGIS

• Demo

• Extensibility

• Things to consider
Customization Scenario

- User Interface - Branding
  - White-Labeling scenario
  - Color
  - Logo
  - Font
  - Corporate or Organization Branding

- Red Cross View – Damage Assessment
  - 40,000 named users
  - Strict Corporate Branding
Customization Scenarios

- Extend the capability of the Survey Forms
  - Tailor the user experience of user input controls in the Survey
  - Incorporate xForm appearance or question types that may not still be supported by the application

- Example
  - Compass bearing input by simply tapping on the compass or “tap and hold” to get your device compass reading.
Customization Scenarios

• Extend the capability of the App
  - To connect to Bluetooth-enabled Printer and Print
  - To add timestamp and location-stamp to the photo taken

• Data submission workflow
  - Submit data to custom webservice or multiple sources
  - Saving duplicate data/survey to database
What is AppStudio?

- A suite of productivity tools for creating native apps
- One app that works across all platforms (iOS/MacOS, Android, Windows, Linux)
- AppStudio Standard License

Testing and Building

- AppStudio Player
- Console Window
- Cloud Make
- Qt Creator
User Story

City of Cilantro

Phase 1

The City of Cilantro wants to have a custom version of Survey 123 that is branded and that will be used by various city departments to conduct surveys.
Extending Survey123 Blog – White Labeling


Extending Survey123, Part 1: White Labeling

For this blog post, and the subsequent blog post on extending Survey123's functionality, I've created a user story for a fictitious municipality called the City of Cilantro that will help guide the customization process. Also, a public repo with the customized app is available at Github: Cilantro Surveys.

I. User Story

The City of Cilantro needs a custom version of Survey123 that will be used by various city departments to conduct public and private surveys. The city currently has three customization needs:

1. The app needs to be branded to match the organization. [Not extending core functionality]
2. The city needs the ability to print the time and location onto new photos taken with some surveys. [Extending core functionality]
3. Some surveys used in the field will include the scanning of barcodes as the only action required of the survey. The application will need to automatically submit the survey after the barcode is successfully scanned and then open a new survey immediately upon.
User Story

City of Cilantro

Phase 2

Some surveys used in the field will include the getting wind direction information, having a compass bearing as input will be helpful and photo of with watermark of timestamp, location and copyright text.
Extensibility
Custom JavaScript Functions in Expressions

pulldata("@javascript", "<javascript.js>", "<function>", parameter1, parameter2, …)

- Script file must be in a folder named extensions in your survey
- You must be signed into the same organization as the survey
- Doesn’t work for public surveys
- Functions must operate synchronously

- **Warnings** –
  - Not a supported feature (yet) so subject to some change
  - Be careful with complex and slow operations
What we’re working on…

Workflow Extensions

- Customization of the Survey123 experience without changing the Survey123 source code
- Replace or complement "My Surveys" gallery with new or additional functionality
- Works with out of the box Survey123 app – Doesn’t require republishing the app
- Build your own workflow experience for the user
Things to consider

- Survey123 releases a new version every 6-8 weeks

- Easy to upgrade to newest version

- AppStore review process

- Is it in the RoadMap? Can it wait?

- Ask in GeoNet
Learn more about Survey123 for ArcGIS

• Website: https://survey123.arcgis.com/

• Ask in GeoNET:
  • https://community.esri.com/groups/survey123

• Documentation page
  • https://doc.arcgis.com/en/survey123/

Learn more about AppStudio for ArcGIS

• Website: https://appstudio.arcgis.com/