Building the Zone Lookup Instant App in Experience Builder : A Live Demonstration

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ARLINGTON℠
THE AMERICAN DREAM CITY

The Questions I Ask Myself Way Too Often

- Who Am I?
  - I make GIS related scripts and applications for the City of Arlington.
    - Mostly in Experience Builder
  - @JeffreyThompson2 on ESRI Community
    - MVP
    - Much more interesting than @JeffreyThompson1
  - Moderate Two User Groups
    - Experience Builder Custom Widgets
    - Experience Builder Tips And Tricks
      - The #2 User Group on ESRI Community
        - Down with Coordinate Reference Systems
    - Setting Up A Related Table for Data Collection in ArcGIS Online and Experience Builder
      - By: David Allen
      - Over 33,000 views

- What Am I Doing Here?
  - Show you some stuff in Experience Builder it wasn't entirely designed to do.
  - Instant Apps are pretty neat.
    - Too bad you can't customize them in any meaningful way.
    - What if you could build the Zone Lookup Instant App in Experience Builder?
  - Find the School District and the Schools within it for any mouse click or search query.
    - Must be done in 25 minutes.
    - Start the clock…

Make Webmap

Start on webmap

- School districts and developments
- Filtered Developments by TEAID

Open Experience Builder

- Create New
- Blank Fullscreen

Make Header

Don't use Header/Footer for single page applications

- Designed for multi-page apps
- Cannot directly move stuff in/out

Add Sidebar

- Full size
- Dock Side Top
- Size 50px
- Resizable off
- Collapse Button off
- Fill Color Blue

Add Map

Add Second Sidebar

- Full size
- Rename Hidden Sidebar
  - Click Widget title
- By putting one Sidebar inside another and Map inside Sidebar, they should not interfere with each other or the Map

Add Map

- Full size
- Select School and Districts map
- Tools
  - Locate on
  - Search off
  - Extent navigate on
  - Overview Map on
- Options
  - Enable Pop-up off

Schools Near Me

Add Near Me

- Rename to Schools Near Me
- Sketch and Search Area symbol to transparent
- Analysis Settings
  - Search Distance 0
  - Schools
  - Proximity
  - Expand Analysis Results

Go to Map

- Action Tab
  - Record Selection Changes > Data/Framework > Select Data Records
    - Trigger Data – Districts Layer
    - Action Data – Districts Layer
  - Schools Near Me > Set Location

Save and Preview

Search by District

Add Search

- Drag to Map then Header
- Customize Search Sources
  - Remove defaults
  - Add Layer Source > Districts
- Hint – Search By District Name
- General Search Options
  - Recent Searches on
- Search Result
  - Result Panel off
- Action Tab
  - Record Selection Changes > Schools Near Me > Set Location

Save and Preview

Districts Near Me

Add Second Near Me

- Rename Districts Near Me
- Sketch Color and Search Area Symbol transparent

Analysis Settings

- Search Distance 0
- Add Analysis
  - Select Layer – Districts
  - Analysis Type – Closest Feature
  - Highlight Results on Map off

Action Tab

- Record Selection Changes > Schools Near Me > Set Location

Search By Address

Add Second Search

- Rename Search By Address
- Add Custom Search Sources
  - Remove any custom locators
  - Only World Geocoder
- General Search Options
  - Use Current Location on
  - Recent Searches on
- Search Result
  - Auto Select First Result on
  - Result Panel off
- Action Tab
  - Record Selection Changes > Map > Zoom To
  - Districts Near Me > Set Location

Go to Map Action Tab

- Location Change > Districts Near Me > Set Location

Save and Preview

- Show Locator and Address Search – Dallas Zoo
- Click on Map in other district
  - District Near Me is out of sync
  - Must hide Near Me

Re-Arrange Layout

- Click Map > Send to Pending List
- Add Flow Row
  - Gap 0
- Go to Pending List > Re-add Map
- Add Column
  - Gap 0
- Click Map > Style Tab > Width Stretch

Schools Near Me Output

- Add Feature Info to Column
  - <u>List would be better</u>
- Select Data
- Add Data
  - Select Data
  - Outputs Tab
    - Schools Near Me
  - Detail Options – Title off
  - Style Tab > Height Stretch

Districts Output

- Add Text
  - Drag above Feature Info
  - Connect To Data
    - Districts > Selected Features
  - Dynamic Content
    - Expression Tab
      - Top Line gets displayed when nothing is selected
      - Text Area for typing Expression
        - "Schools in " + {NAME}
  - Text Format – Heading 4
  - Style Tab > Height Auto

Hide Near Me

- Find Hidden Sidebar
  - <u>Click attribute tree bottom of the page</u>
- Size 0
- Resizable off
- Default State Collapsed
- Collapse Button off
- Save and Preview

Add Section for Search Bar

- Click District Search > Send to Pending List
- Add Section Widget to Header
  - Style Tab > Width 50%
  - Click View > Set Fill to blue
  - Three Dot Menu > Rename Address Search
- Drag Address Search into Section
  - Style Tab
    - Width 60%
    - Height Auto
    - Snap Left
    - Vertical Center

Make Section Switch Button – Pt. 1

- Add Button inside Section
- Style Tab
  - Width 30%
  - Height Stretch
  - Snap to Right
- Go to Section > Click Three Dot Menu > Duplicate
- Rename to District Search
- Delete Address Search 2

Make Switch Button – Pt. 2

- Drag in Search from Pending List
  - Restyle
    - Width 60%
    - Height Auto
    - Snap Left
    - Vertical Center

- Go to Button
  - Change Text to Or Search By Address
  - Set Link > View > Address Search

- Switch to Address Search View and fix that Button
  - Change Text to Or Search By District
  - Set Link > View > District Search

Final Application

- Add title
- Jazz up button
- Add Animation Transition
  - Makes it obvious something is happening
- Center District name and changed background color
- Convert Feature Info to List Widget
  - Links for phone and website
  - Made Column a bit wider
  - A picture would be amazing
- https://experience.arcgis.com/experience/66e2013c8455408e899968be76d1129f