Designing and Developing PowerApps Portals

Agenda

➢ PowerApps Portal Architecture

• Portal Editor

• Portal Management App

• Portal Configuration

• Developing Web Templates

PowerApps Portals

- Provides web development platform
  - Create websites that target authenticated users
  - Create websites that target anonymous users

- Portal content managed by business users
  - Portal Editor used to add pages and author content
  - Portal Management App used to manage portal

- Portal can be customized by web developers
  - Portal can be extended with custom web templates
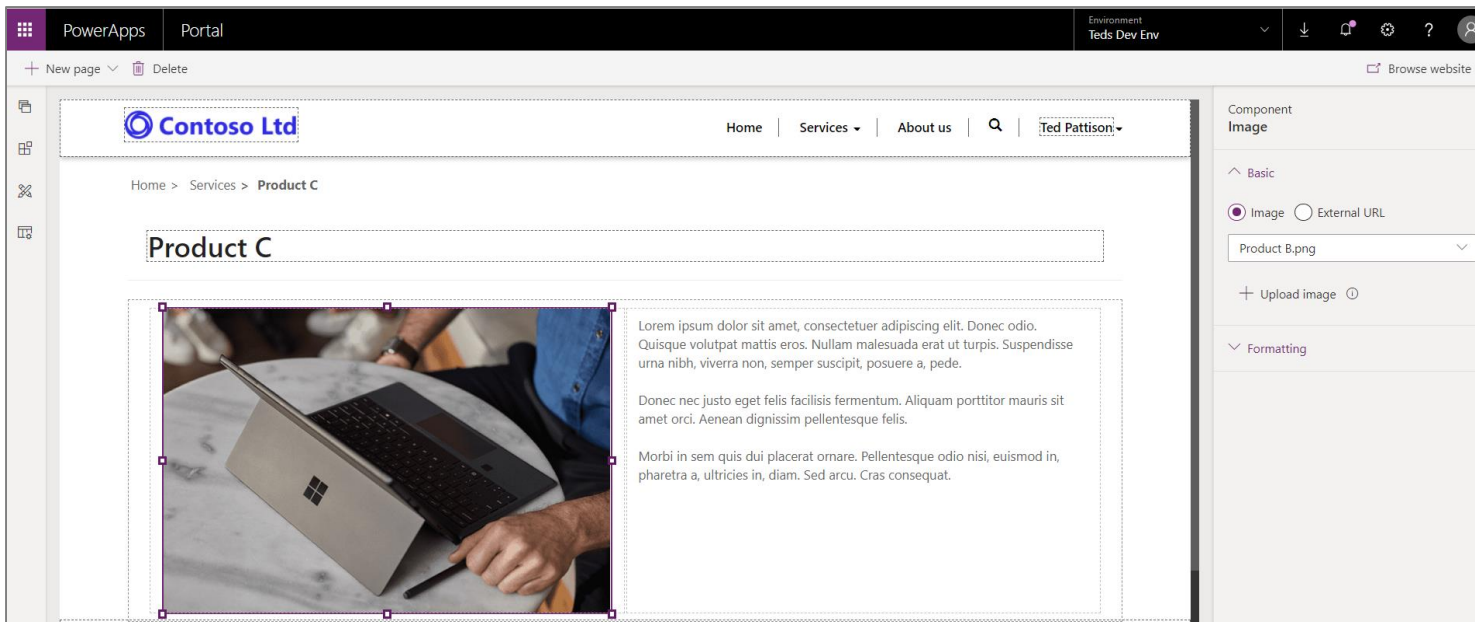 - Web templates can be written to access CDS entities

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- ✓ PowerApps Portal Architecture
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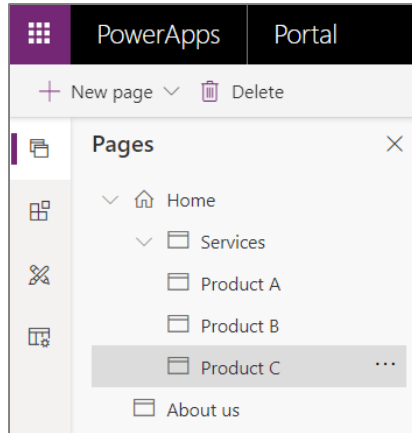- • Developing Web Templates

Portal Editor

- Used to add pages and author page content
  - Designed for less-technical users
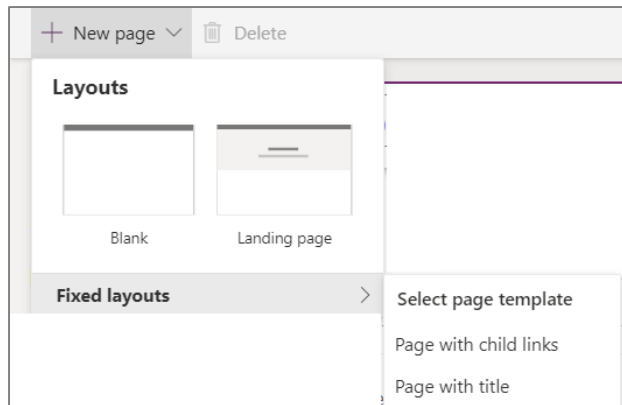 - Editor not require web designer/developer skills
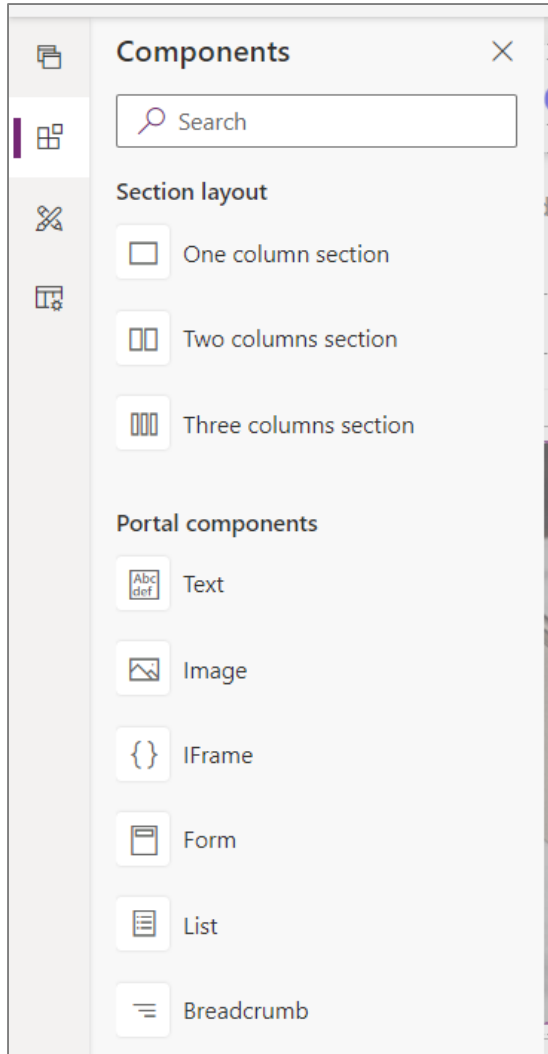
Adding and Navigating Pages

- **Pages** tab provides navigation across pages

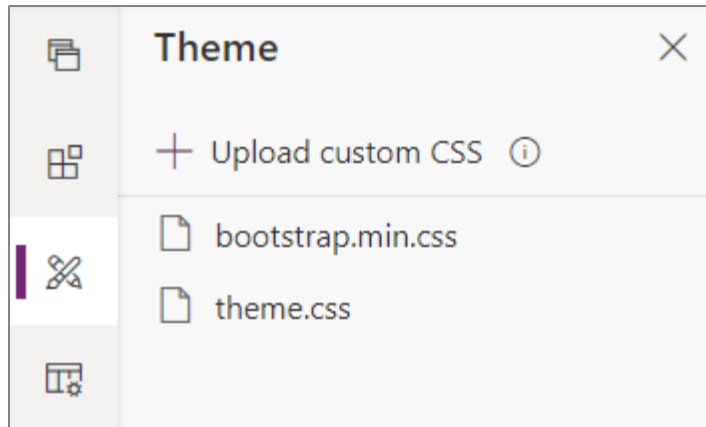

- Pages added using **New page** menu button

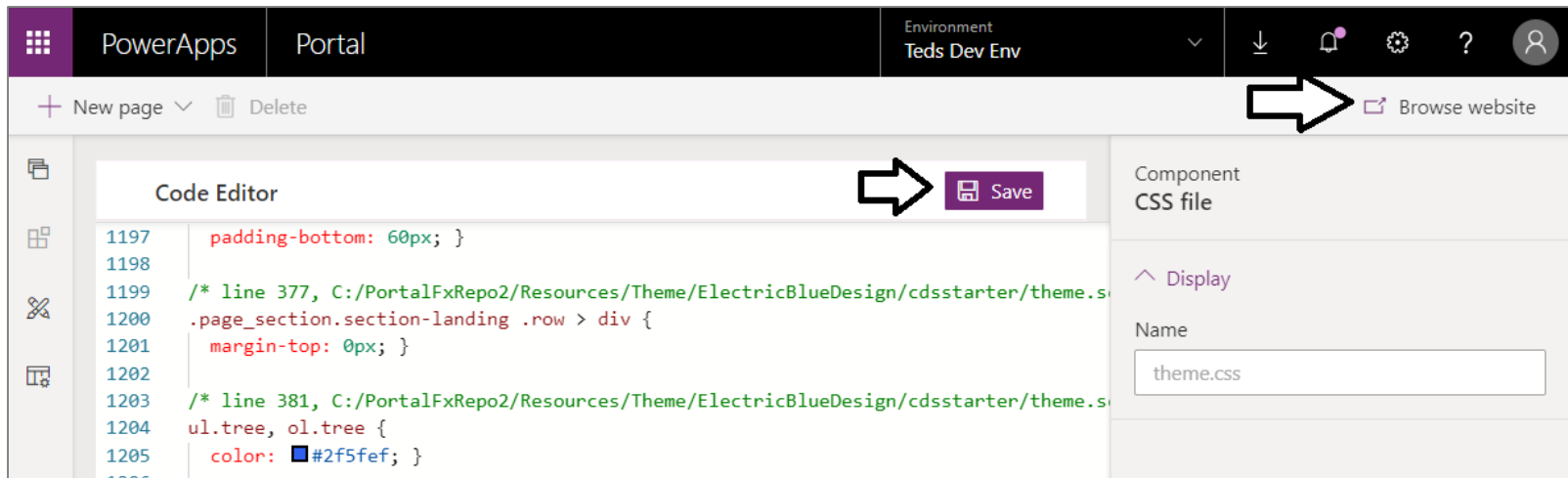# Adding Page Content using Components

Themes

- PowerApps portals styled using Bootstrap 3
  - Not practical to use a more recent version of bootstrap (e.g. v4)
  - theme.css file is provided for your custom styles

Seeing Your Changes in the Portal

- Portal Editor provides **Browse website** button
  - Used to test how the portal will appear to others
  - Browse website clears cache to enabled development

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Configuring a PowerApps Portal

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Creating a Solution with Custom Entities

Solutions > **Critical Path Training Solution**

Display name ⌄		Name	Type ⌄
Audience	⋯	cpt_audience	Option Set
Class	⋯	cpt_class	Entity
Class Location	⋯	cpt_classlocation	Entity
Course	⋯	cpt_course	Entity
Course Length	⋯	cpt_length	Option Set
Training Class Management ⧉	⋯	cpt_TrainingClassManagement	Client Extension
Training Class Management ⧉	⋯	cpt_TrainingClassManagement	Model-driven App
Import class events from Eventbrite ⧉	⋯	Import class events from Eventbrite	Flow

The Course Entity

Fields Relationships Business rules Views Forms Dashboards Charts Keys Data

Display name ↑ ˅		Name ˅	Data type ˅
Audience	···	cpt_audience	☰ Option ...
Course Code	···	cpt_coursecode	🄰🄱🄲 Text
Currency	···	transactioncurrencyid	▦ Lookup
Description	···	cpt_description	🄰🄱🄲 Text Area
Description URL	···	cpt_descriptionurl	🄰🄱🄲 URL
Exchange Rate	···	exchangerate	X_2 Decimal...
Length	···	cpt_length	☰ Option ...
List Price	···	cpt_listprice	◉ Currency
List Price (Base)	···	cpt_listprice_base	◉ Currency
Name Primary Field	···	cpt_name	🄰🄱🄲 Text

The Class Entity

Solutions > Critical Path Training Solution > **Class**

Fields   Relationships   Business rules   Views   Forms   Dashboards   Charts   Keys   Data

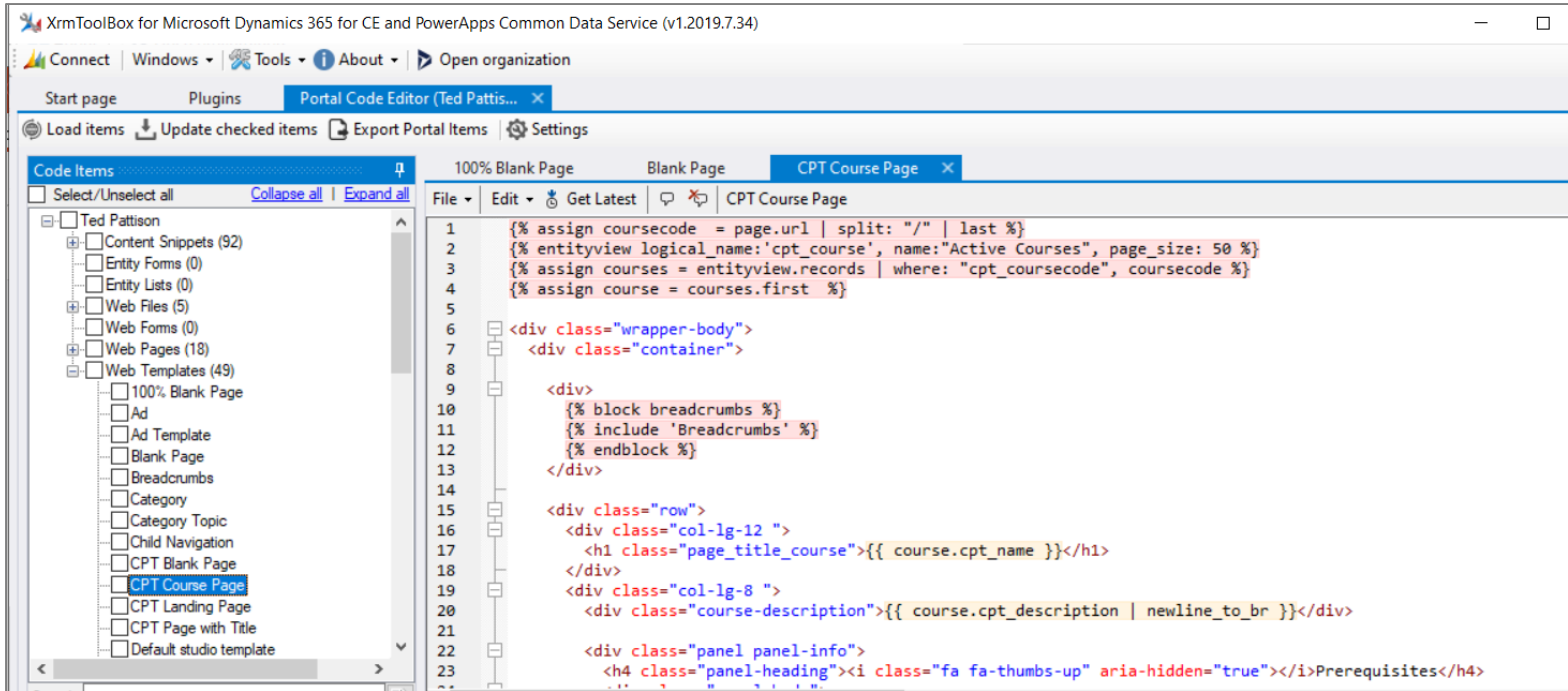| Display name ↑ ∨		Name ∨	Data type ∨
Attend Online	⋯	cpt_attendonline	☰ Two Options
Course	⋯	cpt_course	▦ Lookup
Description	⋯	cpt_description	🔤 Text Area
End	⋯	cpt_end	🗓 Date and Time
EventbriteID	⋯	cpt_eventbriteid	🔤 Text
Instructor	⋯	cpt_instructor	▦ Lookup
Location	⋯	cpt_location	▦ Lookup
Name Primary Field	⋯	cpt_name	🔤 Text
Resgistration Url	⋯	cpt_resgistrationurl	🔤 URL
Start	⋯	cpt_start	🗓 Date and Time

Converting a Portal to Production

XrmToolbox

- Authoring Tool for PowerApps Portals
  - Provides plug-ins for authoring and managing portals

Web Templates and Liquid Language

- Web Template created using Liquid scripting language
  - Can be used to access CDS data

```
<table class="table-schedule table table-bordered table-striped">
  <thead class="thead-dark">
    <tr>
      <th>Start</th>
      <th>Instructor</th>
      <th>Location</th>
      <th>Action</th>
    </tr>
  </thead>
  {% entityview logical_name:'cpt_class', name:"Active Classes", page_size: 50 %}
  {% assign classes = entityview.records | where: "cpt_Class_Course_cpt_Course.cpt_coursecode", course.cpt_coursecode |
                                order_by: "cpt_start"  %}
  {% for item in classes %}
  <tr>
    <td>{{item.cpt_start | date: "MMM d"}}</td>
    <td>{{item.cpt_instructor.name}}</td>
    <td>{{item.cpt_location.name}}</td>
    <td><a href="{{item.cpt_registrationurl}}" target="_blank">Register</td>
  </tr>
  {% endfor %}
  {% endentityview %}
</table>
```

Summary

- ✓ PowerApps Portal Architecture
- ✓ Portal Editor
- ✓ Portal Management App
- ✓ Portal Configuration
- ✓ Developing Web Templates