# Tutorial 08 Learning Objectives

Drupal core functionality and how to use contributed modules

Confidence to dive deeper into Drupal 8

Using menus to structure your site

Managing users and permissions

Installing and configuring contributed modules

Creating layouts with blocks

**Tutorial 08 Parts Index:**

Part A - Student contact Info

Part B – Use Existing Drupal 8 CMS Site Info for this Tutorial

Part C - Extending Drupal 8 with Core Modules

Part D - Extend Drupal 8 with Contributed Modules

Part E - Extending Drupal 8 with Custom Modules

Part F - Drupal 8 Core Fields

Part G - Drupal 8 Admin Toolbar Extensions

Part H - Module Filter - Extend Page Extension

Part I – Questions or problems with this tutorial?

Part A – Student information

1. Download and save a copy of the Tutorial 08 Template document
2. Rename the template document   
   **[Your-Name or Initials]-**Tutorial-08-Template.docx

Go to the template and enter student information for Part A.

Part B – Use Existing Drupal 8 sites on All Web Host Platforms

Do not make new Drupal 8 sites for this Tutorial.   
Use existing Drupal 8 CSM sites on **Shared web host** or **Pantheon** as a Service (PaaS) and **Codeanywhere** for this tutorial.

If however, you do not have an existing Drupal 8 sites on both shared web host or cloud platforms, then please create them before starting the tutorial.

Go to the Tutorial 08 Template and take and record the requested screen captures and site login credentials for your Drupal 8 CMS sites for Part B.

# Part C – Extending Drupal 8 with Core Modules – All Platforms

## Introduction to Permissions – Using the Contact module

1. Core Contact Us – Contact Module  
     
   The Core Contact module creates the contact us page.  
   It comes preconfigured and is a perfect module to examine to learn about how permissions work in Drupal.  
     
   Permissions tie role based security to modules.  
   Essentially, every module installed that has a client facing user interface (form or page) must be permissioned before it’s used.  
   If you do not permission it correctly, the modules user interface will not be visible to anonymous users.   
     
   To examine permissions, let’s find the Contact module on the Extend page and examine its permission settings.

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| --- |
| (1) As the site admin, select the Extend menu link |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2017-03-26_14-54-21.png |

|  |
| --- |
| (2) To quickly find the Contact module , enter Contact in the filter by name or description. By default the CORE Contact module should be enabled (selected) |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2017-03-26_20-12-58.png |
| (3) Open the Contact description (click on it)  (4) Select the Permissions link to go to the Permissions page (at Contact) |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2017-03-26_20-13-05.png |

|  |
| --- |
| **Another way to get to the permissions page:** 1. Select the People menu link  2. Select the Permissions Tab – (You have to search for Contact this way) |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2017-03-26_20-22-56.png |
| Evaluating Role Based Permissions ADMINISTRATOR – is a Role. If are the site admin, you have this role  (1) Administer contact forms – can only be done by the ADMINSTRATOR (2) Site wide contact form – Can be used (seen & used) by all Roles, including ANONOMOUS USER (*users who are not logged in to the site*) |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2017-03-26_20-25-01.png |

1. Drupal.org on Roles
   1. Review Drupal Users, Roles and permissions
      1. <https://www.drupal.org/node/120614>
   2. One of the great features of Drupal is the ability to control how and what people can access on your site.   
      You can set permissions for these "users" to define who can do what for Drupal core features and contributed modules.   
      For example, you probably won't want casual visitors to edit your homepage but you will want them to be able to see and use a Contact Us form or an FAQ page.   
      To learn more about the term "**user**", learn about differentiating the Four Different Kinds of "Users" Encountered When Installing Drupal.
   3. Drupal permits you to establish multiple different kinds of users or 'Roles'. Many websites have editor and site administrator roles; editors to make content updates and site admins to install new modules and make larger configuration changes.
   4. Out of the box, Drupal recognizes two types of site visitors - those who are logged in (or 'Authenticated' users) and those who are not (or 'Anonymous' users).
   5. The exception is the first user created (user/1).
      1. User/1 – The site creator & is a Site Administrator
         1. Has the Role Administrator
      2. **Authenticated** user – has an account on the site
      3. **Anonymous** user – not logged into the site. A site visitor.
   6. Although it is not necessary, many sites have additional levels of users.

# 

Go to the Tutorial 08 Template and take the requested screen captures for Part C.

# Part D – Extend Drupal 8 with Contributed Modules – All Platforms

Contributed Modules and Custom Content Types

## Extending the Drupal Site Functionality through Contributed Modules

Contributed (contrib.) modules extend Drupal by adding additional functionality. How they do that depends on the module. Each module extends Drupal differently, but there are patterns we will explore in this training session.  
(1) Adding an entire new Content type, fields and all so we can make FAQs

(2) Adding a field Formatter to the system so we can make Google Maps

## #1 Frequently Asked Questions Module. The FAQ module extends by adding a new Content type named FAQ.

Once we install and enable the FAQ module, we can create nodes of type FAQ.  
The FAQ module also comes with its own view, named **faq-page**.  
The view is configurable, and we will configure it an accordion effect, where one question is enabled at a time.   
And opening one question hides the previously open question.  
 Once we have created a few FAQ nodes, we can add a main menu item to the FAQ view (**faq-page**) to display an aggregate accordion view of our FAQ nodes.

## #2 Simple Google Maps Module:

*This module is about the simplest way to get a Google Map, and/or a link to a Google Map, displayed with your content. It provides a field formatter for Drupal plain text fields (it can also be used on Computed Fields module fields). You enter an address that Google Maps can recognize in the field, and the formatter displays it as a dynamic map, a static map (without the ability to zoom/pan etc.), a link to Google Maps, or some combination.*

*One of the best attributes of the Simple Google Maps module is that you can use it without installing additional modules.   
  
A* ***Google API key is not required****.*

## Frequently Asked Questions Module Extends by adding a new FAQ Content type

High-level Overview:

1. Install Frequently Asked Questions **Module**
2. Enable the Frequently Asked Questions Module
3. Permission the Frequently Asked Questions Module so all users can see it
4. Configure the Frequently Asked Questions Module so it uses the accordion effect
5. Installing the Frequently Asked Questions Moduleadds a new FAQ content type to the system
6. Create three (3) FAQ nodes – with questions and answers
7. Create a new main menu item to display an aggregate of the FAQ nodes

Frequently Asked Questions module:

1. Find, download, install, and enable the FAQ
2. Permission FAQ so all roles (especially anonymous users) can see it
3. Create 1 FAQ node as a class.
   1. use the provided asset content for FAQ Q & A
   2. **Do not promoted to FAQ nodes to the front page**
4. Create menu item for /**faq-page**
   1. FAQ module already has a path to a view that aggregates the FAQ nodes

|  |
| --- |
| Find, download, install the FAQ module <https://www.drupal.org/project/faq> |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2017-03-28_14-19-24.png |
| The Drupal 8 version |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2020-01-06_14-34-43.png |
| Right click (context click) on the 8.x-1.0-alpha1 tar.gz link and select “Copy Link Location” |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2020-01-06_14-36-50.png |
| * 1. On the Drupal 8 Backend, select Admin toolbar > Extend   2. Select +Install new module |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2020-01-06_14-39-08.png |

|  |
| --- |
| Paste the saved Link path and press the “Install” button |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2020-01-06_14-43-24.png |
| faq installed successfully |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2020-01-06_14-49-05.png |

|  |
| --- |
| Enable (install) the Module on the Extends (module) page  Filter the list, entering “faq”  Enable (check) the Frequently asked questions module check box  Press the Install button |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2020-01-06_14-51-32.png |
| Back on the Extends (module) page, re-filter with “faq” and expend the Frequently asked questions module description to check for Permissions and Configuration links |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2017-03-28_14-27-42.png |
| FAQ does require Permissions – we want Anonymous, Authenticated and Administrator users to see the FAQ website page. Select the Permissions link. This will transfer you to the People > Permissions page, just below the Frequently Asked Questions section title. Scroll up a bit, to until you see “**Frequently Asked Questions**”. |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2017-03-28_14-37-38.png |
| (SEE ABOVE) The FAQ permission item we are interested in is the “View FAQ pages” We want all current roles to be able to see the FAQ page. |
| 1. Check ANONYMOUS USER 2. Check AUTHENTICTED USER 3. Scroll down to the bottom of the Permissions page 4. Press the “Save permissions” button |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2017-03-28_14-42-45.png |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2017-03-28_14-42-54.png |
| Back on the Extend (modules) page, filter for “faq” open the Module description  Select the Configuration link |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2018-11-12_16-54-03.png |
| Select the Questions TAB |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2017-03-28_14-46-34.png |

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| --- |
| Select Clicking on question opens/hides answer under question.  Scroll down |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2017-03-28_14-47-02.png |
| Select Use accordion effect for "opens/hides answer under question" layout  Scroll down and Save configuration |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2017-03-28_14-47-39.png |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2017-03-28_14-48-19.png |
| We now have an FAQ that is properlty permissioned and configured.  What comes next is creating FAQ nodes. One for each quesiotn and answer. After that we make a main menu item that wil display an aggregate of the FAQ nodes on one page. |

Create FAQ Nodes

*In this part we will create one (1) FAQ node. The Frequently Asked Questions module extends Drupal by adding a new content type named FAQ. The content type, is similar to Basic page, except that the Frequently Asked Questions module also comes with its own VIEW. The view has the path “faq-page”. This view path, when displayed as menu item page, aggregates the FAQ nodes on one page. Combine that with our configuration changes to use the accordion effects, and we will have one slick looking FAQ page.  
In order to make this work, we need to remember not to set a menu item or promote any FAQ nodes to the front page. The view will take care of aggregating the FAQ nodes on the display. We only need to list 1 link to “****/faq-page****” to display all the FAQ nodes as one FAQ page with accordion view.*

Create FAQ Nodes

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| --- |
| Select Content > Add content > FAQ |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2017-03-28_15-11-25.png |
| Open the Asset “FAQ Page Content.txt” file in an ASCII Editor  Do not copy and paste the words Question: and Answer: into Drupal |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2018-11-12_16-55-49.png |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2017-03-28_15-16-08.png |

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| --- |
| Complete the FAQ Content Type template (A) Title: The questions (B) Detailed question: The question (**C) Body: The answer** (D) Do not check Provide menu link (should be un-checked by default)  (E) Do not check any PROMOTION OPTIONS  **Promote to front page is checked by default, so un-check it.**  **(F) Press “Save and publish”** |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2017-03-28_15-13-23.png |

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| --- |
| Example Adding an FAQ Node |
| Content > +Add content |
| Select FAQ |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2018-11-12_16-58-18.png |
| (A) Title: The questions (B) Detailed question: The question (**C) Body: The answer** (D) Do not check Provide menu link (should be un-checked by default)  (E) Do not check any PROMOTION OPTIONS  **Promote to front page is checked by default, so un-check it.**  **(F) Press “Save””** |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2018-11-12_16-59-54.png |
| Create 2 more nodes of Content type FAQ  * use asset content file “**FAQ Page Content.txt** “ (or create your own Q & A) * Do not assign these nodes a main menu link * Do not set these nodes as promoted to front page   **We must to do this every time – unless we want to change the FAQ template  (Which we should do)**   * Do not set these nodes as sticky on top of lists   After adding 2 FAQ Nodes, Content, Filtered by type FAQ |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2018-11-12_17-02-46.png |

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| Edit the FAQ Template – so we do nto have to change the publishing options each time we add a new FAQ node |
| Select ADMIN Toolbar > Structure > Content types *Be careful not to select Comment types by mistake* |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2020-01-06_17-23-41.png |
| On the Content type page, select the Edit drop down select for the FAQ |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2020-01-06_17-25-07.png |

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| At the bottom of the tempalte form, select Publishing options |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2020-01-06_17-26-43.png |
| **After select the Publishing Option**  Uncheck the “promoted to front page” check box then  Press – Save content type |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2020-01-06_15-19-10.png |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2020-01-06_17-28-15.png |
| Success message upon save |
| **HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2020-01-06_17-33-51.png** |
| Now that we have changed the FAQ template, we can add FAQ nodes without having to worry abut setting Publishing options. |
| **Add one more FAQ Node to the site** |

### 

**Add a link to the FAQ View on the Main Menu**

*The FAQ content type, is similar to Basic page, except that the Frequently Asked Questions module also comes with its own aggregate VIEW.   
The view has the path “faq-page”.   
This view path, when displayed as menu item page, aggregates the FAQ nodes on one page. Combine that with our configuration changes to use the accordion effects, and we will have one slick looking FAQ page.*

*From the Frequently Asked Questions Module Project Page:*This is where the module author informs us that the path for the FAQ node aggregate view is **faq-page**.

|  |
| --- |
| Use the new Admin menu extension to go directly to add a link to the Main navigation  **Structure > Menu** |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2018-11-12_17-04-10.png |
| **Main navigation > Edit menu** |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2018-11-12_17-04-37.png |
| Select +Add Link |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2018-11-12_17-09-00.png |

|  |
| --- |
| Fill out the add menu link form:  1. Title: FAQ 2. Link: /faq-path 🡨 This is the path of the FAQ View 3. Description: FAQ 4. Parent Link: <Main navigation> 5. Weight: 10  6. Save |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2017-03-28_15-28-47.png |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2017-03-28_15-29-25.png |
| Check out the FAQ Main menu link |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2017-03-28_15-29-40.png |
| To Re-Order FAQ Items, select the Order TAB on the FAQ page |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2017-03-28_15-30-03.png |

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| --- |
| Test on another web browser as an anonymous user – to test FAQ permissions. Works! |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2018-11-12_17-11-21.png |
|  |
| To Re-Order the Questions – Select the Order TAB |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2018-11-12_17-12-26.png |

|  |
| --- |
| Select the cross-hair and move an FAQ item, then Save |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2017-03-28_15-34-51.png |

|  |
| --- |
| *C:\Users\mchase2\Desktop\byoa\aaazq1.png* |

Simple Google Maps Module *The Simple Google Map module extends Drupal by adding a* ***Field Formatter****.   
To take advantage of the extension, we will create a new Content Type, named   
“****GMap Test****”.   
We will add a new text field to the content type structure named “Address”.   
After creating the Address field, we will change its field formatter, form text, to   
Simple Google Map one line address.   
What this does, is when we create a node of “****GMap Test****”, add a single line address in the Address field, it will be displayed as a Google map on the page.*  
  
**High level Overview**:

1. Install the **Simple Google Map Module**
2. Create new content type (template) named “**GMap Test**”
   1. Configure the structure to use menu options, not front page display
3. Add a new field to the content type named Address as a text field
4. In the Manage Display TAB, set Address Field Formatter to Simple Google Map One line Address
5. Create 1 node of type “GMap Test”, named “**My GMap Test**”

|  |
| --- |
| **Implementing Google Map on Drupal 8** |
| 1. Find and install the “**Simple Google Maps Module**” |
| <https://www.drupal.org/project/simple_gmap> |
| 1. Recommend download is 8.x Stable release (1-06-2020 was 8.x-1.4) |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2018-11-12_16-16-26.png |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2020-01-06_17-40-37.png |
| 1. Copy the appropriate download link path.  Right click and select “Copy link address” |
| 1. On the Drupal site, select the Extend > Install a new module |
| 1. Paste the file path into the “Install from” a URL text box 2. Verify that the module path and the Drupal version are correct 3. Press the “Install” button |
| C:\Users\mchase2\Desktop\aaX1\e1.png |
| 1. Select the Enable newly added modules link |
| C:\Users\mchase2\Desktop\aaX1\m3.png |
| 1. To find the Simple Google Map module quickly, enter the word “map” in the Filter text box |
| 1. Enable the Simple Google Maps module (check the checkbox) |
| 1. Press the “Install” button to begin the installation process |
| C:\Users\mchase2\Desktop\aaX1\m4.png |
| 1. Back on Expends modules page, re-enter “map” in the filter. 2. Locate the Simple Google Maps module, and open the description to determine if this module requires and permissions or configurations. ***It does not have any permissions or configuration links, so we should be good to go.*** |
| C:\Users\mchase2\Desktop\aaX1\m6.png |

|  |
| --- |
| 1. Create a new content type named “**GMap Test**” **Structure > Content types > Add content type** |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2018-11-12_13-13-54.png |
| 1. Select “+ Add content type” |
| C:\Users\mchase2\Desktop\aaX1\ac1.png |
| 1. Enter name and description: Name: **GMap Test** Description: A content type to use the Simple google Map module to create Maps. 2. Scroll down to the bottom block settings |
| C:\Users\mchase2\Desktop\aaX1\ac1.png |
| Submission form settings: Also known as the Bottom Block Settings – Sets the template properties for adding new content Title: Keep default values Title & Preview before submitting |
| C:\Users\mchase2\Desktop\aaX1\ac2.png |
| Submission form settings: publishing options:  Published: Checked Promoted to front page: NOT CHECKED Sticky at top of lists: NOT CHECKED Create new revisions: Checked |
| C:\Users\mchase2\Desktop\aaX1\ac3.png |
|  |
| C:\Users\mchase2\Desktop\aaX1\ac4.png |
|  |
| C:\Users\mchase2\Desktop\aaX1\ac5.png |
| The content type *GMap Test* has been added. |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2018-11-12_13-16-32.png |
| Add field – We add a field to utilize the Google Map Field Formatter |
| C:\Users\mchase2\Desktop\aaX1\ac6.png |
| See Below (1) There are several types of text fields, Be sure to select Text (plain) |
| C:\Users\mchase2\Desktop\aaX1\ac7.png |
|  |
| C:\Users\mchase2\Desktop\aaX1\ac8.png |
| **Set Address to be Required** |
| C:\Users\mchase2\Desktop\aaX1\ac9.png |
| C:\Users\mchase2\Desktop\aaX1\ac10.png |
|  |
| C:\Users\mchase2\Desktop\aaX1\ac11.png |
|  |
| C:\Users\mchase2\Desktop\aaX1\ac12.png |
|  |
| C:\Users\mchase2\Desktop\aaX1\ac13.png |
|  |
| C:\Users\mchase2\Desktop\aaX1\ac14.png |
|  |
| C:\Users\mchase2\Desktop\aaX1\ac15.png |
| C:\Users\mchase2\Desktop\aaX1\ac16.png |
|  |
| C:\Users\mchase2\Desktop\aaX1\ac17.png |
| **Setting have been saved.** |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2018-11-12_16-20-31.png |
|  |

To create a page with a map, we will create content of type GMAP

|  |
| --- |
| (1) Content  (2) Add content |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2018-11-12_16-23-22.png |
| (3) Select GMap Test |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2018-11-12_16-24-07.png |

|  |
| --- |
| **Fill out the GMap page template: (1) Title: My GMap page (2) Body: A test of the Google Map Module**  (3) Put DePaul CDM Address in the Address field  243 South Wabash Avenue, Chicago, IL 60604  (4) Add a main menu link (5) Main menu link with weight 12 (6) Save |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2018-11-12_16-26-46.png |

|  |
| --- |
| Test the new GMap page on the site |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2018-11-12_16-29-05.png |

|  |
| --- |
| Test on another browser as an anonymous user |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2018-11-12_16-30-21.png |

Go to the Tutorial 08 Template and take the requested screen captures for Part D.

Part E - Extending Drupal 8 with Custom Modules

Please review the Module 08 presentation -   
Build Drupal 8 CMS Modules on Codeanywhere

1. Review the presentation - Build Drupal 8 CMS Modules on Codeanywhere and follow along with the videos as we introduce implementing Drupal 8 custom modules on all platforms.
2. Implement a Custom Module on SiteGround
3. Implement a Custom Module on Codeanywhere
4. Implement a Custom Module on Pantheon (PaaS)
   1. For those with Pantheon accounts.

Go to the Tutorial 08 Template and take the requested screen captures for Part E.

Part F - Review Drupal 8 Core Fields

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| Drupal 8 Core has incorporated many fields that in Drupal 7 required us to install contribution modules.  *Datetime Link Telephone (telephone is not enabled by default)* |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2018-11-13_08-27-05.png |
| You can add these fields to extend existing Core or custom content types, which we will do next week. |

Go to the Tutorial 08 Template and answer the questions for Part F.

**Part G – Drupal 8 Administration Toolbar Extensions**

Module Name: Admin Toolbar

Project Page URL: <https://www.drupal.org/project/admin_toolbar>

Extending Administration Toolbar through Contrib. Modules  
Enabling and configuring the newly added modules

Before an installed module can extend Drupal, it must be found, downloaded + installed, enabled, permissioned and configured.   
  
Modules without a client facing user interface usually are not permissioned.  
Not all Modules can be configured.  
  
Find, download and Install the Admin Toolbar menu module

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| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2018-11-14_08-07-47.png |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2020-01-05_10-26-45.png |
| Copy the link Address |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2020-01-05_10-27-15.png |

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| Install |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2020-01-05_10-28-53.png |
| The installation was successfully completed popup  Select Enable newly added modules |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2020-01-05_10-30-11.png |
|  |

Enable the Admin toolbar and Toolbar menu modules

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| 1. We are on the Extend Admin toolbar page 2. Filter modules by name. Enter “Admin Tool” 3. Check the admin links checked in the picture below 4. Press the “Install” button |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2020-01-05_10-22-16.png |
| Search for Admin Tool HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2020-01-05_10-30-51.png |

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| Enable All 3 Admin Toolbar modules and then press Install |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2020-01-05_10-32-09.png |
| 1. After the Install has completed, a success message appears |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2020-01-05_10-33-13.png |
| 1. Check the modules to determine if they require additional permissions and configuration settings. **(SEE BELOW)** 2. On the Extend menu page 3. Shrink up the CORE module list 4. Open up the **Admin Toolbar** module description    * + 1. Check for links to Permissions and or Configuration 5. Open up the **Admin** **Toolbar Extra Tools** description 6. Check for links to Permissions and or Configuration   Neither module has links for Permission and confirmation. Both modules are enabled (checked), so they are ready to use. |
| C:\Users\mchase2\Desktop\aaX1\aaas1.png |
| **HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2018-11-15_08-26-57.png** |
| **Admin Toolbar module extensions:**  The Administrative submenu bar has been extended.  The extension extends the Admin toolbar behavior, making it operate with dropdown menu items |
| C:\Users\mchase2\Desktop\aaX1\axq1.png |

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| **The Admin Toolbar Extension also adds a new toolbar item:**  A new Drupal 8 menu link has been added to the Administrative submenu bar.   It has links to:  **Index -** re-index the site  **Flush all caches** – and individual sub-menu Flush cache menu items  **Run cron** – to run cron and rebuild the Drupal site  **Run updates** – run the updates.php script  Logout |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2020-01-05_10-37-58.png |

Demo uninstalling the module and review what uninstall means.

Go to the template and take and post the requested screen captures for Part G.

**Part H – Module Filter - Extend Page Extension**

**Module; Filter Module Purpose:**To improve the default Drupal Extend page usability.

**Background:**  
The (EXTEND) modules list page can become quite big when dealing with a fairly large site or even just a development site meant for testing new and various modules being considered.   
  
What this module aims to accomplish is the ability to quickly find the module you are looking for without having to rely on the browsers search feature which more times than not shows you the module name in the 'Required by' or 'Depends on' sections of the various modules or even some other location on the page like a menu item.

**Module Name:** Module Filter

**Project Page URL:** <https://www.drupal.org/project/module_filter>

Repeat the steps above **to find and install and enable** the **Module Filter** module.

Hints:

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| * Selecting the correct download: * We are running Drupal 8 core and we are interested in a stable version of the Module filter module * Tar.gr files are for Linux computers and Zip files are for Windows computers |
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|  |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2020-01-05_10-45-48.png |
|  |
| When you are done installing and enabling the Module Filter module, the Extend page will look like the page below |
| **BEFORE Enabling the Module File module:** |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2017-03-28_20-24-15.png |

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| **AFTER Enabling the Module Filter module:** |
| C:\Users\mchase2\Desktop\aaX1\qq1.png |
|  |

|  |  |
| --- | --- |
| Without the Module Filter Module | With the Module Filter Module |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2020-01-05_10-59-57.png | HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2020-01-05_11-00-23.png |

**Go to the template and take and post the requested screen captures for** Part H.

**Part I – Questions or problems with this tutorial?**

Congratulations on completing this tutorial. Please submit the renamed and completed template to D2L for review and grading.

If you have questions or issues about this tutorial please contact the instructor immediately.

To get help, either submit an IRT, or make an appointment with the DePaul tutor or connect to BlueStar and make an appointment for an office hours appointment for help. **If you find errors with this tutorial, please fill out a BRECT form and submit it to the instructor ASAP for Extra Credit points.**

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Submit your completed tutorial template to D2L dropbox for the current weeks tutorial. If you prefer not to navigate by hand to the D2L dropbox, take advantage of the dropbox link in the current D2L Module Tutorial section. The D2L link will take you to the correct tutorial dropbox location.