

Nestlé Back-End task

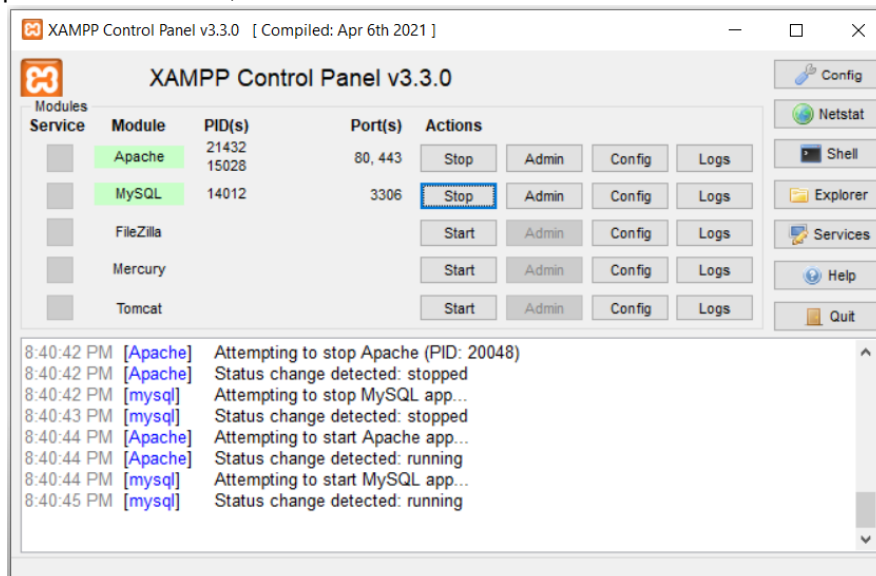
Candidate: Bertha Isasi

Steps taken:

1. Since I have never used Drupal before, I took the time to study the tool: Udemy short courses, YouTube tutorials and Drupal documentation.
2. Installed PHP in my computer since I have not been using it.

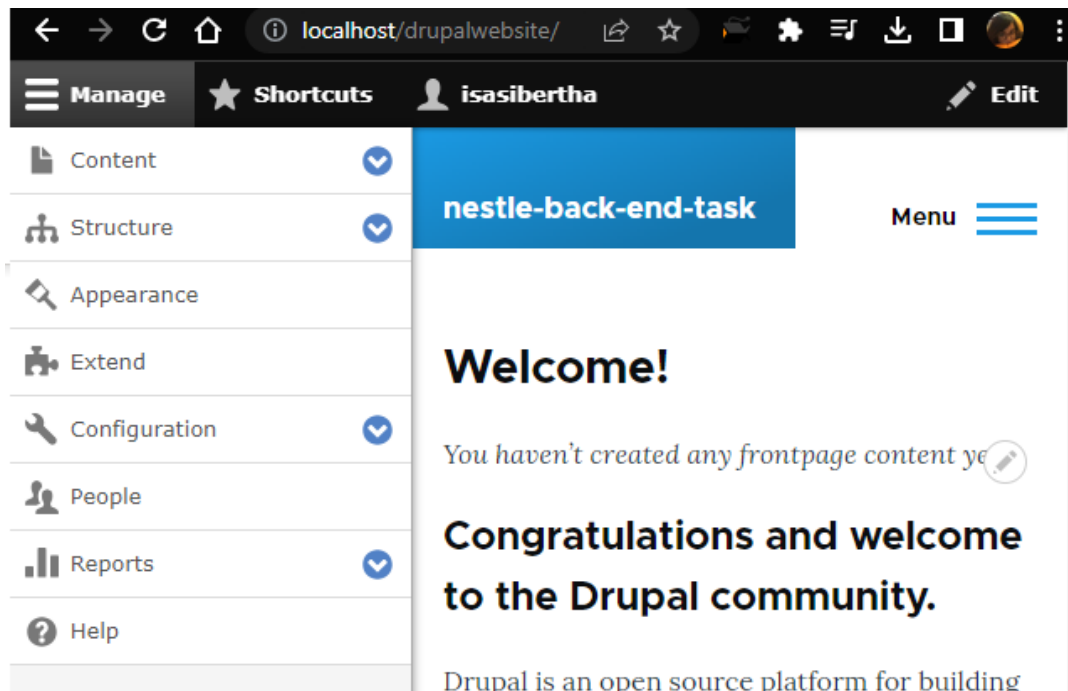
```
C:\Users\bertha.isasi>php -v
PHP 8.2.8 (cli) (built: Jul  4 2023 15:53:30) (NTS Visual C++ 2019 x64)
Copyright (c) The PHP Group
Zend Engine v4.2.8, Copyright (c) Zend Technologies
```

3. To test Drupal for the first time, I chose to use XAMPP.

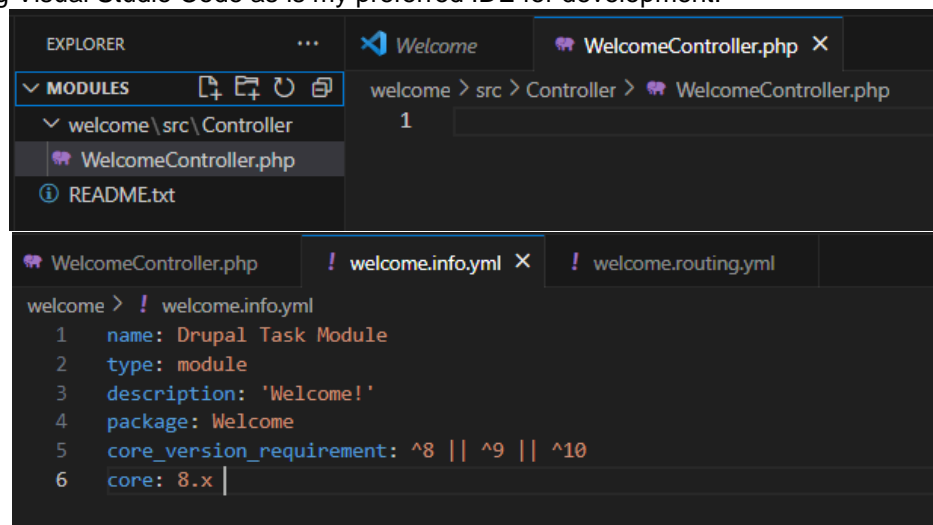


(Realized that with this step I could skip the previous one)

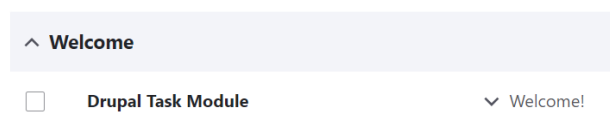
4. Installed Drupal 10 by downloading the .zip file and extracting it into the htdocs in the xampp folder.
5. Followed the Drupal installations process.
6. Fixed minor problems on the php.init file.
7. Created a demo database on phpMyAdmin (I have experience using this DB administrator on previous academic projects, as well as XAMPP)
8. Started a Drupal web page for the first time!



9. Following another tutorial, created a practice module called “Welcome” under the module folder. I am using Visual Studio Code as is my preferred IDE for development.



10. Visualizing the module in the Drupal Extend page:



Okay, that's fine for a first-time using Drupal, now on to the task handled:

Task: Create module that will be competitive with Drupal 8/9.

Module name: Glossary Tooltip

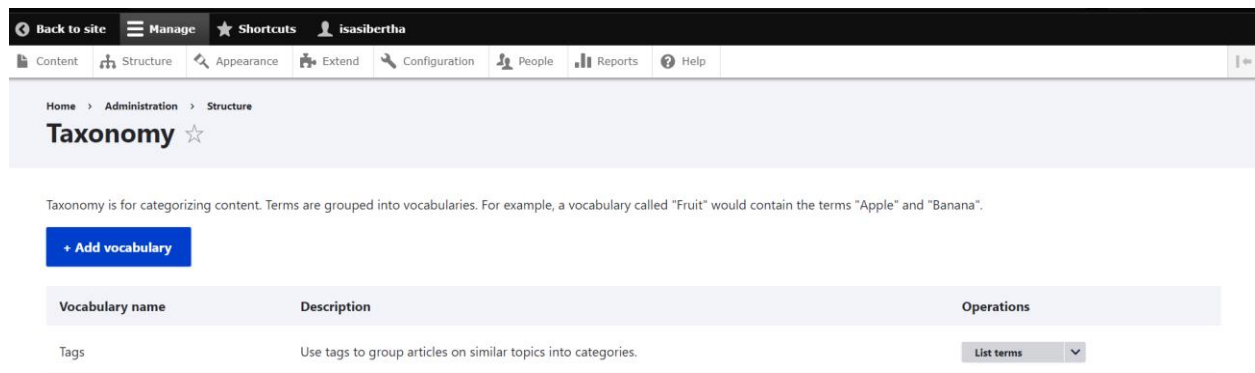
Short description: The words correspondent / identical to the items included in the glossary vocabulary are highlighted.

Behavior: Create a functionality that will allow admin to add words in the glossary with the description. After the term is added and published, the content of the page will be checked and if the word exists in the page, it will add description to it. You can check behavior on the designs.

1. Create vocabulary for glossary terms.
2. Terms must have Title and Description (textfield, long)
3. Create functionality to scan the text inside the content type.
4. Create functionality to add description when the title word of the term exists in the page content.

Optional

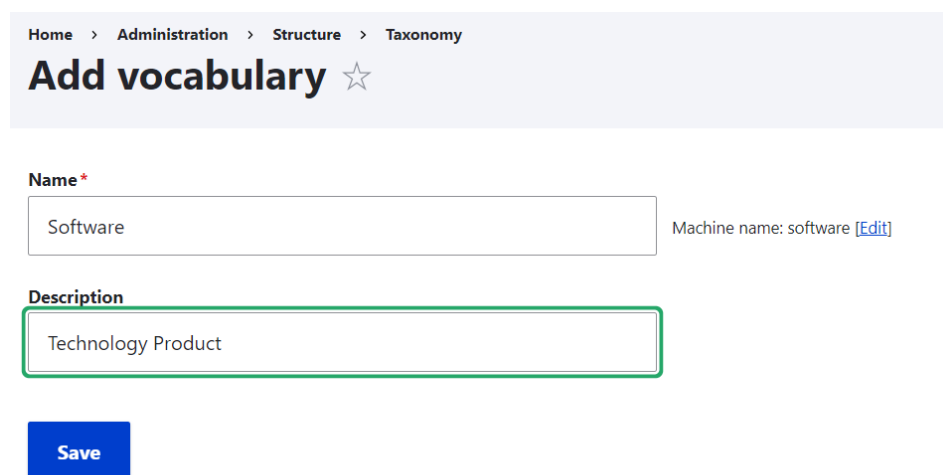
5. Create install function that will create the vocabulary on module install.
6. Limit the description on the page up to 100 chars, if the description is longer add "Read more" button that will lead user to the term page itself.



The screenshot shows the Drupal administration interface for the Taxonomy module. At the top is a navigation bar with links like 'Back to site', 'Manage', 'Shortcuts', and a user profile 'isasibertha'. Below this is a secondary navigation bar with icons for Content, Structure, Appearance, Extend, Configuration, People, Reports, and Help. The main breadcrumb trail is 'Home > Administration > Structure'. The page title is 'Taxonomy' with a star icon. A descriptive paragraph states: 'Taxonomy is for categorizing content. Terms are grouped into vocabularies. For example, a vocabulary called "Fruit" would contain the terms "Apple" and "Banana".' Below this is a blue button labeled '+ Add vocabulary'. A table lists existing vocabularies with columns for 'Vocabulary name', 'Description', and 'Operations'. One entry is shown: 'Tags' with the description 'Use tags to group articles on similar topics into categories.' and an 'Operations' column containing a 'List terms' button with a dropdown arrow.

Vocabulary name	Description	Operations
Tags	Use tags to group articles on similar topics into categories.	List terms

Created vocabulary:



The screenshot shows the 'Add vocabulary' form in the Drupal administration interface. The breadcrumb trail is 'Home > Administration > Structure > Taxonomy'. The page title is 'Add vocabulary' with a star icon. The form has two main sections: 'Name' and 'Description'. The 'Name' section has a text input field containing 'Software' and a label 'Name *'. To the right of the input field is the text 'Machine name: software' with an '[Edit]' link. The 'Description' section has a text input field containing 'Technology Product' and a label 'Description'. Below the form is a blue button labeled 'Save'.

Name *

Software

Machine name: software [\[Edit\]](#)

Description

Technology Product

Save

Added terms with title and description:

Home > Administration > Structure > Taxonomy > Edit Software

Add term ☆

Name *

Front-End

Description

B I Paragraph Source

Part that the users get to see and interact with

Text format Basic HTML

POWERED BY CKeditor
[About text formats](#)

Terms created:

Back to site
Manage
Shortcuts
isasilbertha

Content
Structure
Appearance
Extend
Configuration
People
Reports
Help

Home
Administration
Structure
Taxonomy
Edit Software

Software

List
Edit
Manage fields
Manage form display
Manage display
Manage permissions

+ Add term

You can reorganize the terms in *Software* using their drag-and-drop handles, and group terms under a parent term by sliding them under and to the right of the parent.

Name

Operations

[Back-End](#)

Edit

[Development](#)

Edit

[Front-End](#)

Edit

Show row weights

Check form display and disabled unrequired fields:

Manage form display ☆

List Edit Manage fields **Manage form display** Manage display Manage permissions

◊ Show row weights

Field	Widget	
✚ Name	<div>Textfield</div>	Textfield size: 60 ⚙
✚ Description	<div>Text area (multiple rows)</div>	Number of rows: 5 ⚙
Disabled		
✚ Published	<div>Single on/off checkbox</div>	
✚ URL alias	<div>URL alias</div>	

Limit Description display format to Trimmed to 100 characters:

◊ Show row weights

Field	Label	Format	
✚ Description	<div>Inline</div>	<div>Trimmed</div>	Trimmed limit: 100 characters ⚙

Administrating structure for the admin to choose between terms:

[⬅ Back to site](#) [☰ Manage](#) [★ Shortcuts](#) [👤 isasibertha](#)

[📄 Content](#) [👥 Structure](#) [🔧 Appearance](#) [🔗 Extend](#) [🔧 Configuration](#) [👤 People](#) [📊 Reports](#) [? Help](#)

Home > Administration > Structure > Content types > Basic page > Manage fields

Add field ☆

Add a new field

Taxonomy term

▼

Label*

Software

Machine name: field_software [\[Edit\]](#)

Save and continue

Managing form display for the admin to be able to select from the vocabulary:

Software

Select list

Autocomplete (Tags style)

Autocomplete

Check boxes/radio buttons

Select list

Published

Use field label: Yes

Disabled

Managing display:

Software

Above

Label

Link to the referenced entity

Creating function on install module (Following previous module creation steps + Drupal's developer solutions¹):

```
install > src > Controller > InstallController.php
1  <?php
2  namespace Drupal\install\Controller;
3
4  class InstallController
5  {
6      function __getvocabularies($name_only = false){
7          $arrVocabs['Software'] = array(
8              'name' => t('Software'),
9              'multiple' => 0,
10             'required' => 1,
11             'hierarchy' => 1,
12             'relations' => 0,
13             'module' => 'install',
14             'weight' => -10,
15             'nodes' => array('software_user' => 1, 'software_node' => 1),
16         );
17         return ($name_only) ? array_keys($arrVocabs) : $arrVocabs;
18     }
19 }
20
21 ?>
```

¹ <https://www.drupal.org/forum/support/module-development-and-code-questions/2010-01-04/how-to-automatically-create>