

Creating a Simple Custom Module

Spoken Tutorial Project

<http://spoken-tutorial.org>

National Mission on Education through ICT

<http://sakshat.ac.in>

Priya K

IIT Bombay

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Learning Objectives



Learning Objectives

- ▶ **Create a basic module**



Learning Objectives

- ▶ Create a basic module
- ▶ Add a basic controller



Learning Objectives

- ▶ Create a basic module
- ▶ Add a basic controller
- ▶ Add a routing file



System Requirement

To record this tutorial, I am using



System Requirement

To record this tutorial, I am using

- ▶ **Ubuntu Linux 16.04 OS**



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- ▶ **Ubuntu Linux 16.04 OS**
- ▶ **Drupal 8**



System Requirement

To record this tutorial, I am using

- ▶ **Ubuntu Linux 16.04 OS**
- ▶ **Drupal 8**
- ▶ **Firefox web browser**



System Requirement

To record this tutorial, I am using

- ▶ **Ubuntu Linux 16.04 OS**
- ▶ **Drupal 8**
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- ▶ **Gedit text editor**



Pre-requisites



Pre-requisites

- ▶ You should have basic knowledge of Drupal



Pre-requisites

- ▶ You should have basic knowledge of Drupal
- ▶ If not, for relevant Drupal tutorials please visit

<http://spoken-tutorial.org>



Pre-requisites



Pre-requisites

- ▶ **Object Oriented Programming terminology**



Pre-requisites

- ▶ **Object Oriented Programming terminology**
- ▶ **Programming in PHP**



Pre-requisites

- ▶ Object Oriented Programming terminology
- ▶ Programming in PHP
- ▶ Namespacing in PHP



Pre-requisites

- ▶ **Object Oriented Programming terminology**
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- ▶ **Symfony 2**



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- ▶ Object Oriented Programming terminology
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- ▶ Namespacing in PHP
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For more details, please see the
Additional reading material link



Module Naming Conventions



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- ▶ **It must contain only lower-case letters, underscores but no spaces**



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- ▶ It must contain only lower-case letters, underscores but no spaces
- ▶ It must be unique and cannot have the same short name as any other module or theme



Module Naming Conventions

- ▶ It must contain only lower-case letters, underscores but no spaces
- ▶ It must be unique and cannot have the same short name as any other module or theme
- ▶ It cannot have any reserved terms such as **src**, **lib**, **vendor**, **templates**, **includes**, **fixtures**, etc.



YAML



YAML

- ▶ **Yml is the file extension of YAML**



YAML

- ▶ **Yml** is the file extension of **YAML**
- ▶ **YAML** is a **unicode based data serialization standard** for all programming languages



YAML

- ▶ **Yml is the file extension of YAML**
- ▶ **YAML is a unicode based data serialization standard for all programming languages**
- ▶ **It is a human-readable language**



Router



Router

- ▶ This is to tell Drupal where the module can be accessed from



Router

- ▶ This is to tell Drupal where the module can be accessed from
- ▶ The router determines what should be done with the request



Router

- ▶ This is to tell Drupal where the module can be accessed from
- ▶ The router determines what should be done with the request
- ▶ The router also checks if the access is permitted



Controller



Controller

- ▶ **Controller is a PHP function**



Controller

- ▶ **Controller is a PHP function**
- ▶ **It takes information from the HTTP request and constructs and returns an HTTP response**



Summary

- ▶ **Create a basic module**
- ▶ **Add a basic controller**
- ▶ **Add a routing file**



Assignment

Create a custom module for **About us** page of your website



About the Spoken Tutorial Project

- ▶ Watch the video available at http://spoken-tutorial.org/What_is_a_Spoken_Tutorial
- ▶ It summarises the Spoken Tutorial project
- ▶ If you do not have good bandwidth, you can download and watch it



Spoken Tutorial Workshops

The Spoken Tutorial Project Team

- ▶ Conducts workshops using spoken tutorials
- ▶ Gives certificates to those who pass an online test
- ▶ For more details, please write to contact@spoken-tutorial.org



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