

# 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

23 March 2018



# 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**



# System Requirement

To record this tutorial, I am using

- ▶ **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**
- ▶ **Firefox web browser**
- ▶ **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**
- ▶ **Programming in PHP**
- ▶ **Namespacing in PHP**
- ▶ **Symfony 2**



# Pre-requisites

- ▶ **Object Oriented Programming terminology**
- ▶ **Programming in PHP**
- ▶ **Namespacing in PHP**
- ▶ **Symfony 2**



# Pre-requisites

- ▶ Object Oriented Programming terminology
- ▶ Programming in PHP
- ▶ Namespacing in PHP
- ▶ Symfony 2

For more details, please see the [Additional reading material link](#)



# Module Naming Conventions



# Module Naming Conventions

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



# 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**



# 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



- ▶ **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](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](mailto:contact@spoken-tutorial.org)



# Acknowledgement

**Spoken Tutorial Project is funded by**

- ▶ **NMEICT, Ministry of Human Resource Development**
- ▶ **NVLI, Ministry of Culture**

**Government of India**

