

Module Generator User Manual

Prepared for



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1 Introduction

1.1 Overview

(This overview is copied from DotNetNuke Module Creator document) DotNetNuke is a web application framework with a mission to make web software development simpler and more productive for the average developer. DotNetNuke provides a variety of specialized services that add value over what is available in the standard ASP.NET framework. These include, but are not limited to, a full framework for developing modular web applications, an extensibility model to add extensions to customize the platform to meet your needs, a robust security model which allows granular control over the activities a user can perform in the application, user interface patterns and controls to create a consistent modern user experience, and a skinning engine that allows you to transform the appearance of the application to match your branding.

Every software development platform has its own unique characteristics and conventions which new developers need to understand in order to be effective. The majority of developers are familiar with developing web applications by creating new code assets on the file system, editing the source code in an IDE, and accessing these code assets by direct URL paths in a web browser.

However, because DotNetNuke is a modular CMS application, there is both a file system and database configuration required in order to develop and expose extensions. The file system and the database are wired up based on some unique conventions which are specific to DotNetNuke, which imposes an initial barrier to entry for new developers.

The DotNetNuke Portal application was highly successful at providing a simple “getting started” experience for developers who wanted to get up to speed on ASP.NET. The application was simple and “hackable” by developers with limited experience, yet it was still capable of being utilized in enterprise scenarios as well. This encouraged rapid adoption of ASP.NET and in fact, provided the initial momentum for the DotNetNuke ecosystem growth.

For developers on the Microsoft platform who are familiar with ASP.NET we usually tell them that the DotNetNuke development model is consistent with what they are used to – that they just need to create User Controls (*.ascx) instead of Pages (*.aspx). The reality is that it is significantly more involved than that, with the initial challenge being where to start in terms of coming up to speed on the specifics of the DotNetNuke architecture, environment, and conventions. It is only after a developer navigates past this first step, that they can then utilize their ASP.NET skills productively and understand the value of the platform.

1.2 Business Need

Traditionally, developers have had to rely on documentation and sample modules in order to obtain the knowledge required to become productive on the platform. Unfortunately, the documentation and sample modules are not well organized, nor are they focused on specific developer personas or why one approach is better than another depending on the business scenario. This is not an optimal model. Over the years, there have been a number of different approaches to attempt to deal with this problem.

In this module, we overhauled the “Create New Module” user interface to reduce the number of steps required to create some basic module assets on the file system. This was done in the application itself

which made it slightly more discoverable and it did deal with both the file system and database configuration, in order to get up and running.

We have the opportunity to improve the developer experience and solve the problems outlined above.

2 User Interface

This module can be used by users with host role only.

There are 3 main interfaces:

- Home: Home page for Module Generator to generate the new module based on specific department.
- Edit Department: a web page for insert/update/delete departments.
- Manual: a web page to display this document.

2.1 Home User Interface

Home Edit Department Manual

Module Generator allows developers to create new custom modules based on templates

Expand All

Basic Module Generator Settings

Department: * ⓘ DotNetNuke ▼

Project Folder: * ⓘ

Module Name: * ⓘ

Module Abbreviation: * ⓘ

Module Friendly Name: * ⓘ

Module Description: * ⓘ

Language: ⓘ
☒ C# ☐ VB ☐ Web ☐ Zip

Template: ⓘ DAL2 ▼

Predefined Department Information ▼

Generate

Template Name: DAL2
Compatible With: DotNetNuke 7.x

A business object class, a controller class with data access methods, and a SQL installation and uninstallation script

01.00.00.sql
templateInfo.cs
templateController.cs
uninstall.sql

*NOTE: When you add this module template there will be a momentary delay while the DotNetNuke application restarts

(Include any special instructions for this Module Template in this area)

2.2 Edit Department

Edit Department

[Home](#) [Edit Department](#) [Manual](#)

Edit Department allows developers to predefine the specific information in different departments

Department *	<input type="text"/>	Owner Name	<input type="text"/>
Owner Folder	<input type="text"/>	Owner Organization	<input type="text"/>
Module Namespace	<input type="text"/>	Owner Url	<input type="text"/>
Icon File	<input type="text"/>	Owner Email	<input type="text"/>

[Add New Department](#)

		Department	Owner Folder	Module Namespace	Owner Name	Owner Organization	Owner Url	Owner Email	Icon File
Edit	Delete	Department of Beaches and Harbors	DBH	DBH	Information Technology Section	Department of Beaches and Harbors	http://beaches.lacounty.gov/	dhoang@bh.lacounty.gov	~/images/DBH_Extension.gif
Edit	Delete	Internal Services Department	ISD	CAB	Customer Applications Branch	Internal Services Department	http://isd.lacounty.gov	dhoang@bh.lacounty.gov	~/images/ISD_Extension.gif
Edit	Delete	DotNetNuke	DNNCorp	DNN.Modules	DNN Software	DNN Software	http://www.dnnsoftware.com	sales@dnnsoftware.com	~/images/icon_extensions.gif