Chapter 2: Creating Your First Module

Hello World ✫

Home » Administration » Help

About

This is an example module.
Our first route
Hello World

Add content
Salutation configuration

Home » Administration » Configuration

Salutation

Please provide the salutation you want to use.

Save configuration
Chapter 3: Logging and Mailing

Recent log messages ★

Home > Administration > Reports
The Database Logging module logs system events in the Drupal database. Monitor your site or debug site problems on this page.

FILTER LOG MESSAGES

<table>
<thead>
<tr>
<th>TYPE</th>
<th>DATE</th>
<th>MESSAGE</th>
<th>USER</th>
<th>OPERATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>content</td>
<td>05/07/2017 – 17:24</td>
<td>article: added Mauris luctus nibh at diam.</td>
<td>admin</td>
<td>View</td>
</tr>
<tr>
<td>cron</td>
<td>05/07/2017 – 17:23</td>
<td>Cron run completed.</td>
<td>Anonymous (not verified)</td>
<td></td>
</tr>
<tr>
<td>cron</td>
<td>05/07/2017 – 17:23</td>
<td>Execution of system_cron() took 50.21ms.</td>
<td>Anonymous (not verified)</td>
<td></td>
</tr>
</tbody>
</table>
Chapter 4: Theming

Appearance ★

List | Settings

Home > Administration

Set and configure the default theme for your website. Alternative themes are available.

You can place blocks for each theme on the block layout page.

Installed themes

Bartik 8.2.8-dev (default theme)
A flexible, recolorable theme with many regions and a responsive, mobile

Settings
Chapter 5: Menus and Menu Links

Mauris luctus nibh at diam

View  Edit  Delete

Submitted by admin on Sun, 05/07/2017 - 17:23

People

List  Permissions  Roles

Home » Administration

+ Add user

Name or email contains

Role

- Any -

Filter
Our first route

Hello World  Configuration

Good afternoon world
Our first route

Hello World  Configuration

Good afternoon world

Override
Chapter 6: Data Modeling and Storage

Synchronize

Home » Administration » Configuration » Development

Compare the configuration uploaded to your sync directory with the active configuration before completing the import.

<table>
<thead>
<tr>
<th>NAME</th>
<th>OPERATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

There are no configuration changes to import.

View changes of system.site

<table>
<thead>
<tr>
<th>ACTIVE</th>
<th>STAGED</th>
</tr>
</thead>
<tbody>
<tr>
<td>uuid: 6582f134-0c4b-4428-9c14-d7f2861c6642</td>
<td>uuid: 6582f134-0c4b-4428-9c14-d7f2861c6642</td>
</tr>
<tr>
<td>name: 'Drupal 8'</td>
<td>name: 'Drupal 8 Development'</td>
</tr>
<tr>
<td>mail: <a href="mailto:danny@webomelette.com">danny@webomelette.com</a></td>
<td>mail: <a href="mailto:danny@webomelette.com">danny@webomelette.com</a></td>
</tr>
<tr>
<td>slogan: &quot;</td>
<td>slogan: &quot;</td>
</tr>
</tbody>
</table>

Back to 'Synchronize configuration' page.
Add a new field
✓ - Select a field type -
General
  Comments
  Email
  Timestamp
  Boolean
  Date
  Link
Number
  List (float)
  List (integer)
  Number (decimal)
  Number (float)
  Number (integer)
Reference
  Content
  File
  Image
  Taxonomy term
  User
  Other...
Text
  List (text)
  Text (formatted)
  Text (formatted, long)
  Text (formatted, long, with summary)
  Text (plain)
  Text (plain, long)
<table>
<thead>
<tr>
<th>FIELD</th>
<th>LABEL</th>
<th>FORMAT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image</td>
<td>– Hidden –</td>
<td>Image</td>
</tr>
<tr>
<td>Body</td>
<td>– Hidden –</td>
<td>Default</td>
</tr>
<tr>
<td>Tags</td>
<td>Above</td>
<td>Label</td>
</tr>
<tr>
<td>Disclaimer</td>
<td></td>
<td>Visible</td>
</tr>
<tr>
<td>Links</td>
<td></td>
<td>Visible</td>
</tr>
<tr>
<td>Comments</td>
<td>Above</td>
<td>Comment list</td>
</tr>
</tbody>
</table>
Chapter 7: Your Own Custom Entity and Plugin Types

Product entities

Home » Administration » Structure

+ Add Product

<table>
<thead>
<tr>
<th>PRODUCT ID</th>
<th>NAME</th>
<th>OPERATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
There is no Product yet.

Product entities

Home » Administration » Structure

+ Add Product

<table>
<thead>
<tr>
<th>PRODUCT ID</th>
<th>NAME</th>
<th>OPERATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
There is no Product yet.
Add importer

Home » Administration » Structure » Importer entities

Name *

My JSON Product Importer

Name of the Importer.

Url *

http://127.0.0.1/sites/default/files/products.json

The URL to the import resource

- Select -

✓ JSON Importer

The plugin to be used with this importer.

✓ Update existing

Whether to update existing products if already imported.

Source

products from GGT75

The source of the products.

Save
### Product type entities

- **Home » Administration » Structure**

[+ Add Product type]

<table>
<thead>
<tr>
<th>PRODUCT TYPE</th>
<th>MACHINE NAME</th>
<th>OPERATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Goods</td>
<td>goods</td>
<td></td>
</tr>
</tbody>
</table>

- Edit
- Manage fields
- Manage form display
- Manage display
- Translate
- Delete
Chapter 8: The Database API

```
vagrant@vagrant:/var/www$ drush updb -y
The following updates are pending:

sports module:
  8001 - Adds a the "location" field to the teams table.

Do you wish to run all pending updates? (y/n): y
Performing sports_update_8001
Cache rebuild complete.
Finished performing updates.
vagrant@vagrant:/var/www$ 
```
Chapter 9: Custom Fields

These settings apply to the *plates* field everywhere it is used. These settings impact the way that data is stored in the database and can be accessed by other tools.

**Plate number maximum length**

<table>
<thead>
<tr>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>255</td>
</tr>
</tbody>
</table>

Maximum length for the plate number in characters.

**Plate code maximum length**

<table>
<thead>
<tr>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
</tr>
</tbody>
</table>

Maximum length for the plate code in characters.

**Allowed number of values**

- **Limited** 1

[Save field settings]

---

**Widget settings: Default license plate widget**

**Size of plate number textfield**

<table>
<thead>
<tr>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>255</td>
</tr>
</tbody>
</table>

**Size of plate code textfield**

<table>
<thead>
<tr>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
</tr>
</tbody>
</table>

**Fieldset default state**

- **Open**

The default state of the fieldset which contains the two plate fields: open or closed

---

**PLACEHOLDER**

Text that will be shown inside the field until a value is entered. This hint is usually a sample value or a brief description of the expected format.

- **Number field**
- **Code field**

[Update] [Cancel]

---

**Default license plate widget**

License plate size: 255 (for number) and 5 (for code)
Placeholder: NY 543345
Fieldset state: open
Chapter 10: Access Control

<table>
<thead>
<tr>
<th>PERMISSION</th>
<th>ANONYMOUS USER</th>
<th>AUTHENTICATED USER</th>
<th>ADMINISTRATOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Administer blocks</td>
<td>☐</td>
<td>☐</td>
<td>☑</td>
</tr>
<tr>
<td>Comment</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Administer comment types and settings</td>
<td>☐</td>
<td>☐</td>
<td>☑</td>
</tr>
<tr>
<td>Warning: Give to trusted roles only; this permission has security implications.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Administer comments and comment settings</td>
<td>☐</td>
<td>☐</td>
<td>☑</td>
</tr>
<tr>
<td>Edit own comments</td>
<td>☐</td>
<td>☐</td>
<td>☑</td>
</tr>
<tr>
<td>Post comments</td>
<td>☐</td>
<td>☐</td>
<td>☑</td>
</tr>
<tr>
<td>Skip comment approval</td>
<td>☐</td>
<td>☐</td>
<td>☑</td>
</tr>
<tr>
<td>View comments</td>
<td>☐</td>
<td>☐</td>
<td>☑</td>
</tr>
</tbody>
</table>
**Block description:** Hello world salutation

**Title**

Hello world salutation

**Visibility**

- **Language**
  - Not restricted

- **Content types**
  - Not restricted

- **Pages**
  - Not restricted

**Pages**

Specify pages by using their paths. Enter one path per line. The "*" character is a wildcard. An example path is /user/* for every user page. <front> is the front page.

- **Show for the listed pages**
- **Hide for the listed pages**
Chapter 11: Caching
Chapter 13: Internationalization and Languages

Languages

Reorder the configured languages to set their order in the language switcher block and, when editing content, in the list of selectable languages. This ordering does not affect the default language for language selection.

The site default language can also be set. It is not recommended to change the default language on a working site. Configure the Selected language setting on the default language for language selection.

Interface translations are automatically imported when a language is added, or when new modules or themes are enabled. The report Available translation updates shows the user interface translation page.

<table>
<thead>
<tr>
<th>NAME</th>
<th>DEFAULT</th>
<th>INTERFACE TRANSLATION</th>
<th>OPERATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>✔️</td>
<td>not applicable</td>
<td>Edit</td>
</tr>
<tr>
<td>French</td>
<td></td>
<td>8133/8150 (90.79%)</td>
<td>Edit</td>
</tr>
</tbody>
</table>

Save configuration
### FILTER TRANSLATABLE STRINGS

**String contains**

Leave blank to show all strings. The search is case sensitive.

<table>
<thead>
<tr>
<th>Translation language</th>
<th>Search in</th>
<th>Filter</th>
<th>Reset</th>
</tr>
</thead>
<tbody>
<tr>
<td>French</td>
<td>Both translated and untr.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### SOURCE STRING

<table>
<thead>
<tr>
<th>SOURCE STRING</th>
<th>TRANSLATION FOR FRENCH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td>Formulaires</td>
</tr>
<tr>
<td>Home</td>
<td>Accueil</td>
</tr>
<tr>
<td>User interface</td>
<td>Interface utilisateur</td>
</tr>
<tr>
<td>Title</td>
<td>Titre</td>
</tr>
<tr>
<td>Body</td>
<td>Corps</td>
</tr>
</tbody>
</table>

### FILTER TRANSLATABLE STRINGS

**String contains**

Book

Leave blank to show all strings. The search is case sensitive.

<table>
<thead>
<tr>
<th>Translation language</th>
<th>Search in</th>
<th>Filter</th>
<th>Reset</th>
</tr>
</thead>
<tbody>
<tr>
<td>French</td>
<td>Both translated and untr.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SOURCE STRING**

<table>
<thead>
<tr>
<th>SOURCE STRING</th>
<th>TRANSLATION FOR FRENCH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Book</td>
<td>Livre</td>
</tr>
<tr>
<td>Book</td>
<td>Réserver</td>
</tr>
</tbody>
</table>

**In Context:** The verb "to book"
Chapter 14: Batches, Queues, and Cron

vagrant@vagrant:/var/www$ drush products-import-run --importer=json
Importing product TV
Importing product VCR
Importing product Stereo
Importing product Bike
Importing product Speakers
Importing product Gameboy
No products had to be deleted.
6 products imported.
The "json" importer has been run.

Cron takes care of running periodic tasks like checking for updates and indexing content for search.

Run cron

Last run: 21 seconds ago.

To run cron from outside the site, go to http://vagrant.loc/cron/_D9Yg6tH_z8gYxR5c-DOgifh0RafvK2Kyjju5N4FcXLMYisyT8EKcZ4ADIfvEdszANjwa9MRaw

▼ CRON SETTINGS

Run cron every
3 hours

More information about setting up scheduled tasks can be found by reading the cron tutorial on drupal.org.

Save configuration

vagrant@vagrant:/var/www$ drush products-import-run
The plugin JSON Importer is already running.

vagrant@vagrant:/var/www$
## Chapter 15: Views

### VIEW SETTINGS

**Show:** Players  
**sorted by:** Unsorted

<table>
<thead>
<tr>
<th>Search</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Sports</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TITLE</th>
<th>CATEGORY</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ID</td>
<td>Sports</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The unique player ID.</td>
</tr>
</tbody>
</table>
The player data.

☐ Create a label

☐ Exclude from display

Enable to load this field as hidden. Often used to group fields, or to use as token in another.

Full data (unserialized)

☑ Full data (serialized)

A certain key

---

Text

The content provided is for general information purposes only.

The text to display for this field. You may include HTML or Twig. You may enter data from the

Configure field: Product: Importer

Information about the Product importer.

☐ Create a label

☐ Exclude from display
   Enable to load this field as hidden. Often used to group fields,

**Importer**

[Entity ▼]

Which importer label to use?

---

The name of the team.

**Relationship**

**Player team ▼**

☐ Expose this filter to visitors, to allow them to change it

**Operator**

- ☐ Is one of
- ☐ Is not one of
- ☐ Is empty (NULL)
- ☐ Is not empty (NOT NULL)

**Teams**

- ☐ Select all
- ☐ Team Red
- ☐ Team Blue
## Chapter 16: Working with Files and Images

### File system

**Home ➔ Administration ➔ Configuration ➔ Media**

**Public file system path**
sites/default/files
A local file system path where public files will be stored. This directory must exist and be writable by Drupal. This directory must be relative to the Drupal root.

**Public file base URL**
http://vagrant.loc/sites/default/files
The base URL that will be used for public file URLs. This can be changed in settings.php

**Private file system path**
sites/default/private
An existing local file system path for storing private files. It should be writable by Drupal and not accessible over the web. This must be changed in settings.php

**Temporary directory**
/tmp
A local file system path where temporary files will be stored. This directory should not be accessible over the web.

**Delete orphaned files after**
6 hours
Orphaned files are not referenced from any content but remain in the file system and may appear in administrative listings. Warning: If enabled, orphans will be deleted automatically.

**Interface translations directory**
sites/default/files/translations
A local file system path where interface translation files will be stored.

**Default download method**
- Public local files served by the webserver.
- Private local files served by Drupal.
This setting is used as the preferred download method. The use of public files is more efficient, but does not provide any access control.
Name *
CSV
Name of the Importer.

Plugin *
CSV Importer
The plugin to be used with this importer.

▼ PLUGIN CONFIGURATION FOR CSV IMPORTER

File *
products.csv Remove
The CSV file containing the product records.

Image toolkit ☆

Home » Administration » Configuration » Media

Select an image processing toolkit
GD2 image manipulation toolkit

▼ GD2 IMAGE MANIPULATION TOOLKIT SETTINGS

JPEG quality
75 %
Define the image quality for JPEG manipulations. Ranges from 0 to 100. Higher values mean better image quality but bigger files.

Save configuration
<table>
<thead>
<tr>
<th>STYLE NAME</th>
<th>OPERATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Large (480×480)</td>
<td>Edit</td>
</tr>
<tr>
<td>Medium (220×220)</td>
<td>Edit</td>
</tr>
<tr>
<td>Thumbnail (100×100)</td>
<td>Edit</td>
</tr>
</tbody>
</table>
Chapter 17: Automated Testing

▼ PLUGIN CONFIGURATION FOR CSV IMPORTER

File *

products.csv  Remove

The CSV file containing the product records.