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# **Django CMS Tutorial**

***Release 0.1***

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## Installation and Aim

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In this section, we will install Django CMS. Also, aim of this tutorial is shown in this section.

### 1.1 Installation

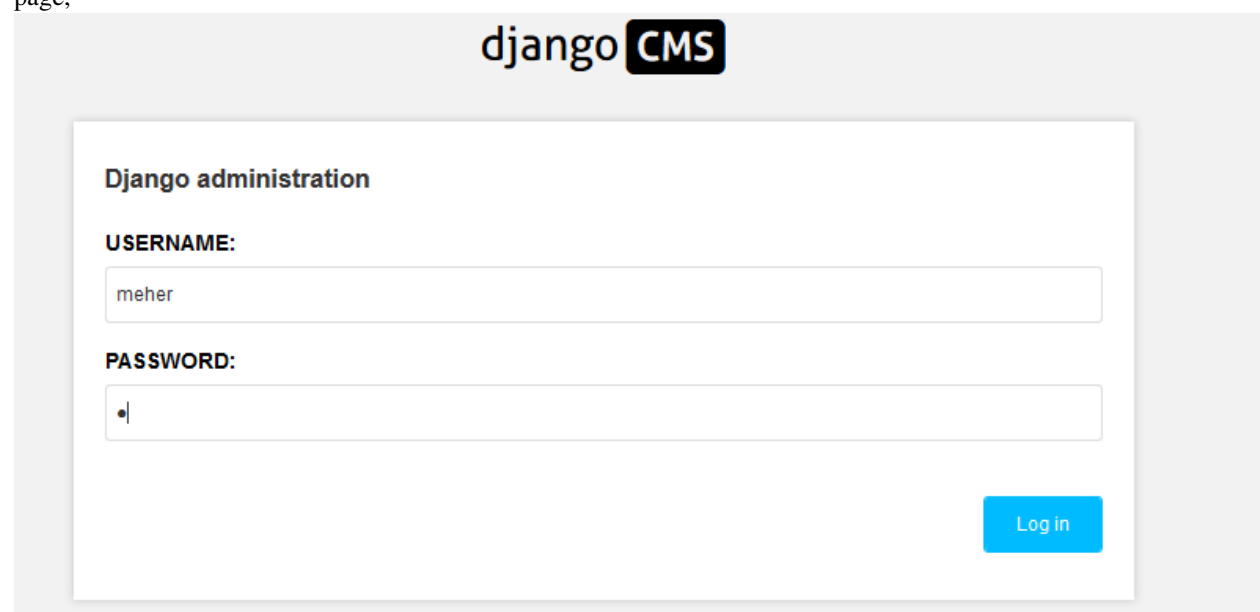
`pip install.djangocms-installer`

Below command will create the project DjangoCms inside the DjangoCms folder. Also it will install all the dependencies e.g. django etc.

`djangocms -p djangoCms DjangoCms`

### 1.2 Aim

Run “python manage.py runserver” on the terminal. Go to “<http://127.0.0.1:8000>” and enter the password in following page,



django CMS

**Django administration**

**USERNAME:**

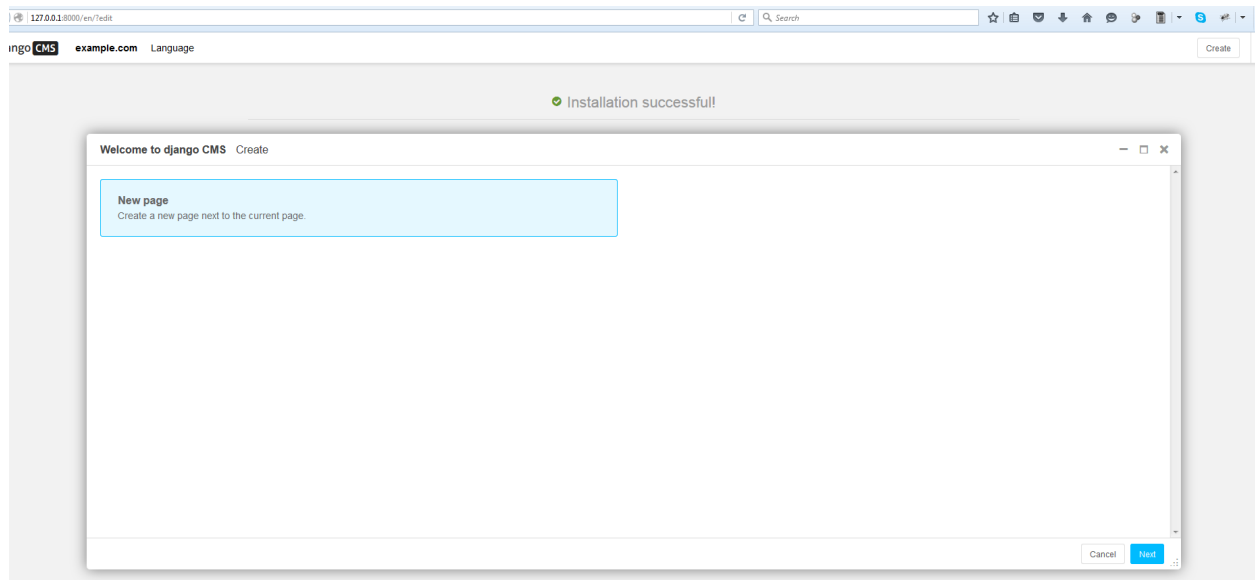
meher

**PASSWORD:**

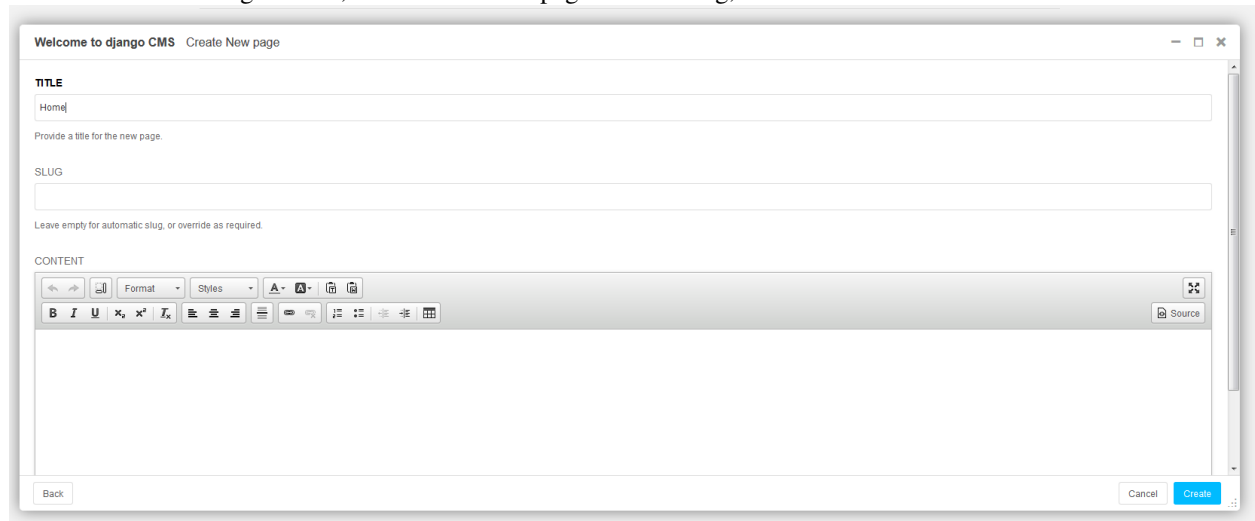
•

Log in

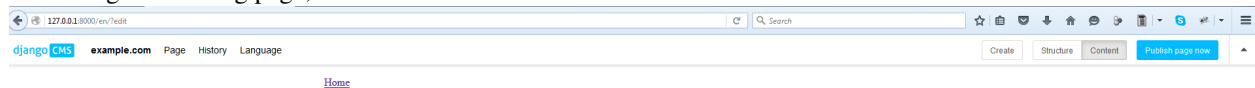
You will get the logged in page as shown below,



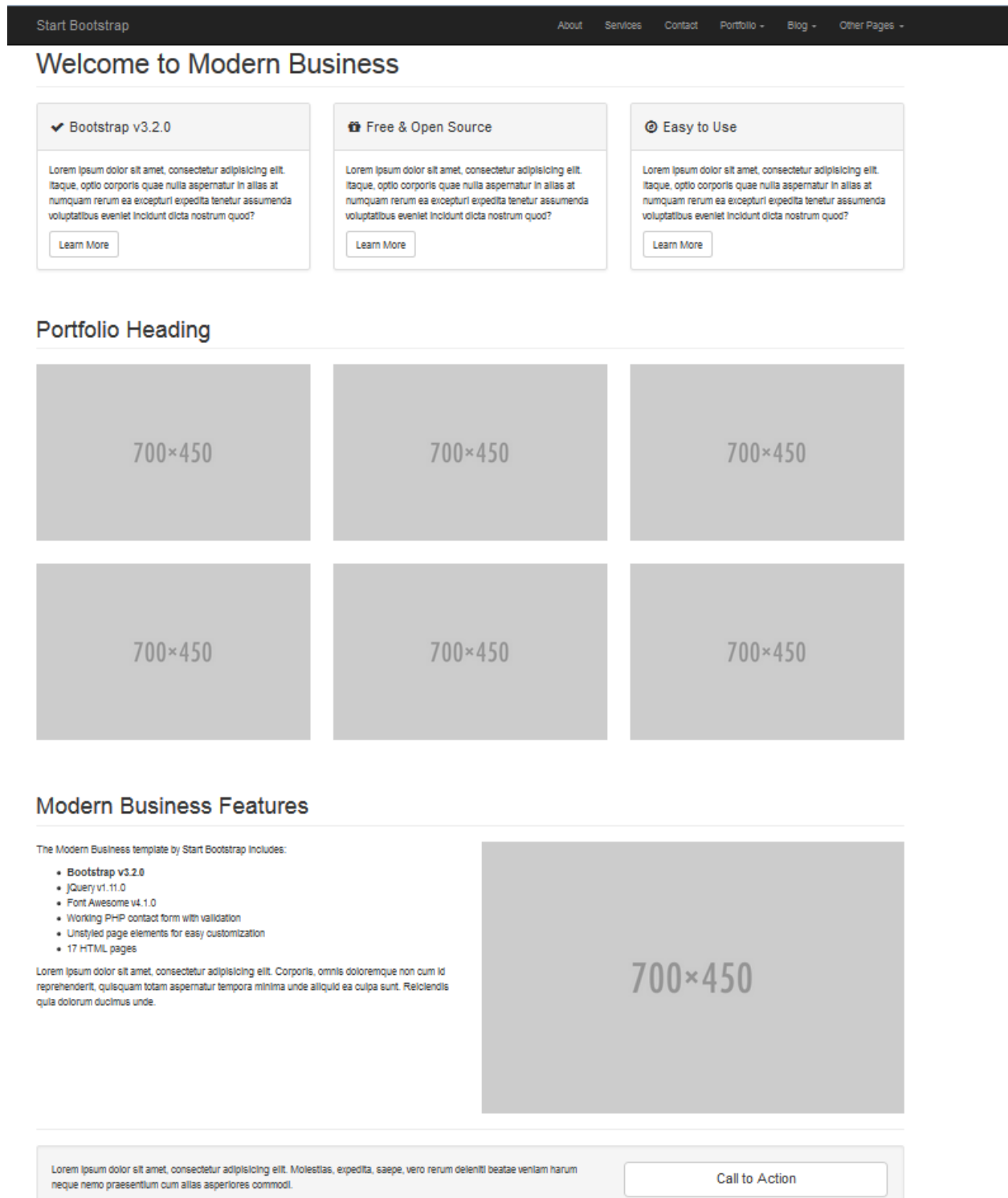
Now click on New Page->Next, and create Home page as following,



You will get following page,



Our aim is to convert above page into following page using Django-CMS, so that anyone can modify the template without touching the HTML code,



Above template is available at “start bootstrap site” with template name “Modern Business”. You can find it by typing “Modern Business start bootstrap template” in google.





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## BootStrap Settings in the project

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In this section, we will set bootstrap's css and js etc. for designing the desired page. Also, some templates is created for designing the CMS page.

### 2.1 Bootstrap settings

Download the modern-business template from bootstrap site and copy the css, js, font, font-awesome folder inside the static folder i.e. djangoCmsDjangoCmsstatic,

Go to template folder and delete the sidebar-left and right.html files as we do not need these. Also, rename base.html to base-old.html for the same reason.

Add full-width.html file to templates folder from modern-businees-bootstrap-folder.

Also, rename full-width.html to "base.html" as we will use it as base template.

### 2.2 Create Templates

Now we will create some templates, which will be used for customizing the CMS page in later sections.

#### 2.2.1 base.html

base html file which is inherited by other templates,

```
{% load cms_tags menu_tags sekizai_tags staticfiles %}
<!DOCTYPE html>
<!-- <html lang="en"> -->
<html lang="{{ LANGUAGE_CODE }}">

<head>

    <meta charset="utf-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <meta name="description" content="{% page_attribute 'meta_description' %}">
    <meta name="author" content="Meher Krishna Patel">

    <title>{% page_attribute 'page_title' %} - CMS</title>
```

```

<link href="{% static 'css/bootstrap.min.css' %}" rel="stylesheet">
<link href="{% static 'css/modern-business.css' %}" rel="stylesheet">
<link href="{% static 'font-awesome/css/font-awesome.min.css' %}"
rel="stylesheet" type="text/css">

{% render_block "css" %}
</head>

<body>
    {% cms_toolbar %}

    <!-- Navigation -->
    <nav class="navbar navbar-inverse navbar-fixed-top" role="navigation">
        <div class="container">
            <!-- Brand and toggle get grouped for better mobile display -->
            <div class="navbar-header">
                <button type="button" class="navbar-toggle"
                    data-toggle="collapse" data-target="#bs-example-navbar-collapse-1">
                    <span class="sr-only">Toggle navigation</span>
                    <span class="icon-bar"></span>
                    <span class="icon-bar"></span>
                    <span class="icon-bar"></span>
                </button>
                <a class="navbar-brand" href="/">Django CMS</a>
            </div>
            <!-- Collect the nav links, forms, and other content for toggling -->
            <div class="collapse navbar-collapse" id="bs-example-navbar-collapse-1">
                <ul class="nav navbar-nav navbar-right">
                    {% show_menu 0 100 100 100 %}
                </ul>
            </div>
            <!-- /.navbar-collapse -->
        </div>
    </nav>

    <div class="container">
        {% block content %}{% endblock content %}
        <footer>
            {% static_placeholder "Footer" %}
        </footer>
    </div>

    <script src="{% static 'js/jquery.js' %}"></script>
    <script src="{% static 'js/bootstrap.min.js' %}"></script>

    {% render_block "js" %}
</body>
</html>

```

## 2.2.2 home.html

This is for home page with not no header,

```
{% extends "base.html" %}
{% load cms_tags %}

{% block title %}{% page_attribute "page_title" %}{% endblock title %}

{% block content %}
    {% placeholder "content" or %}
        <div class="col-lg-12">
            <p class="btn btn-danger">Content is not added,
            therefore this default message is displayed...</p>
        </div>
    {% endplaceholder %}
{% endblock content %}
```

### 2.2.3 fullwidth.html

This template will be used for all pages except home. This includes the header in it,

```
{% extends "base.html" %}
{% load cms_tags %}

{% block title %}{% page_attribute "page_title" %}{% endblock title %}

{% block content %}
    <div class="row">
        <div class="col-lg-12">
            <h1 class="page-header">Full Width Page
            <small>Subheading</small>
        </h1>
        <ol class="breadcrumb">
            <li><a href="/">Home</a>
            </li>
            <li class="active">Full Width Page</li>
        </ol>
    </div>
    <div>

        {% placeholder "content" or %}
        <div class="col-lg-12">
            <p class="btn btn-danger">Content is not added,
            therefore this default message is displayed...</p>
        </div>
        {% endplaceholder %}

    </div>
{% endblock content %}
```

## 2.3 Template Registration in settings.py

Next register all the templates in settings.py, which do you want to show the users for customization,

```
#settings.py
CMS_TEMPLATES = (
    ## Customize this
    ('fullwidth.html', 'Fullwidth'),
    ('home.html', 'Home'),
```

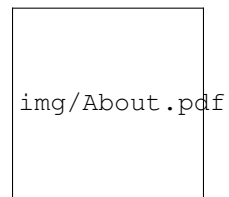
```
# ('sidebar_left.html', 'Sidebar Left'),  
# ('sidebar_right.html', 'Sidebar Right')  
)
```

## 2.4 Create new page

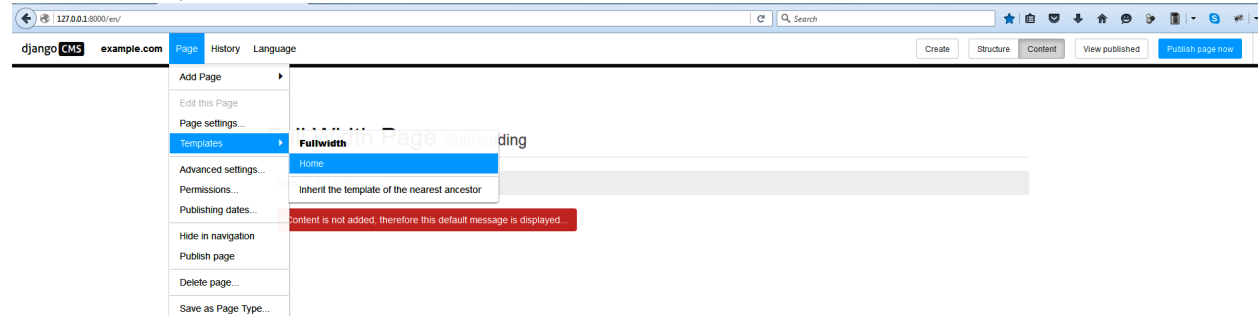
Currently, we have home page only. You can create some more pages using create button again at “<http://127.0.0.1:8000/en/>”. All the page you create, will be displayed at nav-bar because we have included following code in nav-bar at base.html

```
<ul class="nav navbar-nav navbar-right">  
    {% show_menu 0 100 100 100 %}  
</ul>
```

I have added About page and following is the resulting website,



Also, we have added home.html in settings.py. To use this for home page, go to Page->Templates and select “HOME” as shown below,



Now, header will not be displayed for home page.

---

## aldryn-bootstrap3 Packages

---

In this section, we will install aldryn-bootstrap3 package, which will provide various features in CMS page e.g. Row and Columns etc. Further, footer is created using this package.

For installing it run following command on terminal,

```
pip install aldryn-bootstrap3
```

This will also install other dependencies as well e.g. easy-thumbnails, django-filer, django-durationfield. This adds following features to CMS,

- Grid (Row and Column)
- Button and Link
- Image
- Icon (Fontawesome and Glyphicons)
- Blockquote
- Label
- Well
- Alert
- Panel (Heading, Body and Footer)
- Accordion
- ListGroup
- Carousel
- Spacer
- File

### 3.1 settings.py

Now add following at the end of settings.py for registering the installed packages (don't forget to place comma after DjangoCms, )

```
[...]
'easy_thumbnails',
'filer',
```

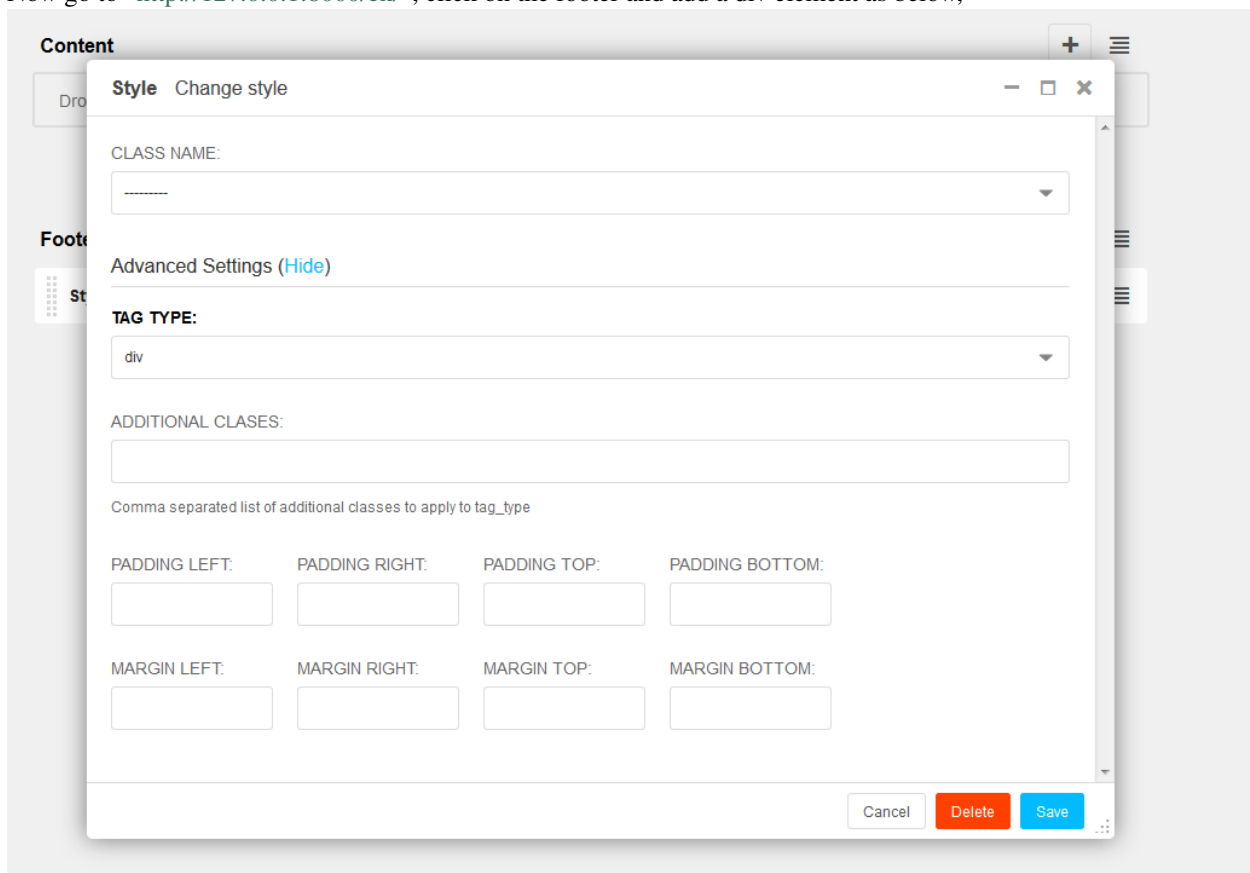
```
'mptt',  
'aldryn_bootstrap3',
```

Also, add following code for thumbnail settings,

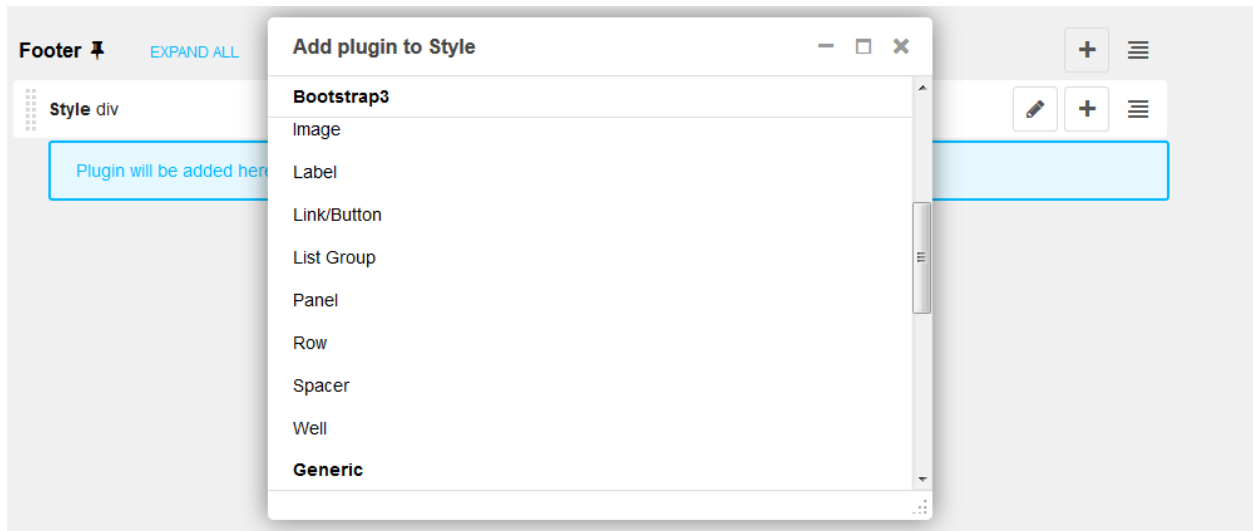
```
THUMBNAIL_PROCESSORS = (  
    'easy_thumbnails.processors.colorspace',  
    'easy_thumbnails.processors.autocrop',  
    #'easy_thumbnails.processors.scale_and_crop',  
    'filer.thumbnail_processors.scale_and_crop_with_subject_location',  
    'easy_thumbnails.processors.filters',  
)
```

## 3.2 Creating Footer

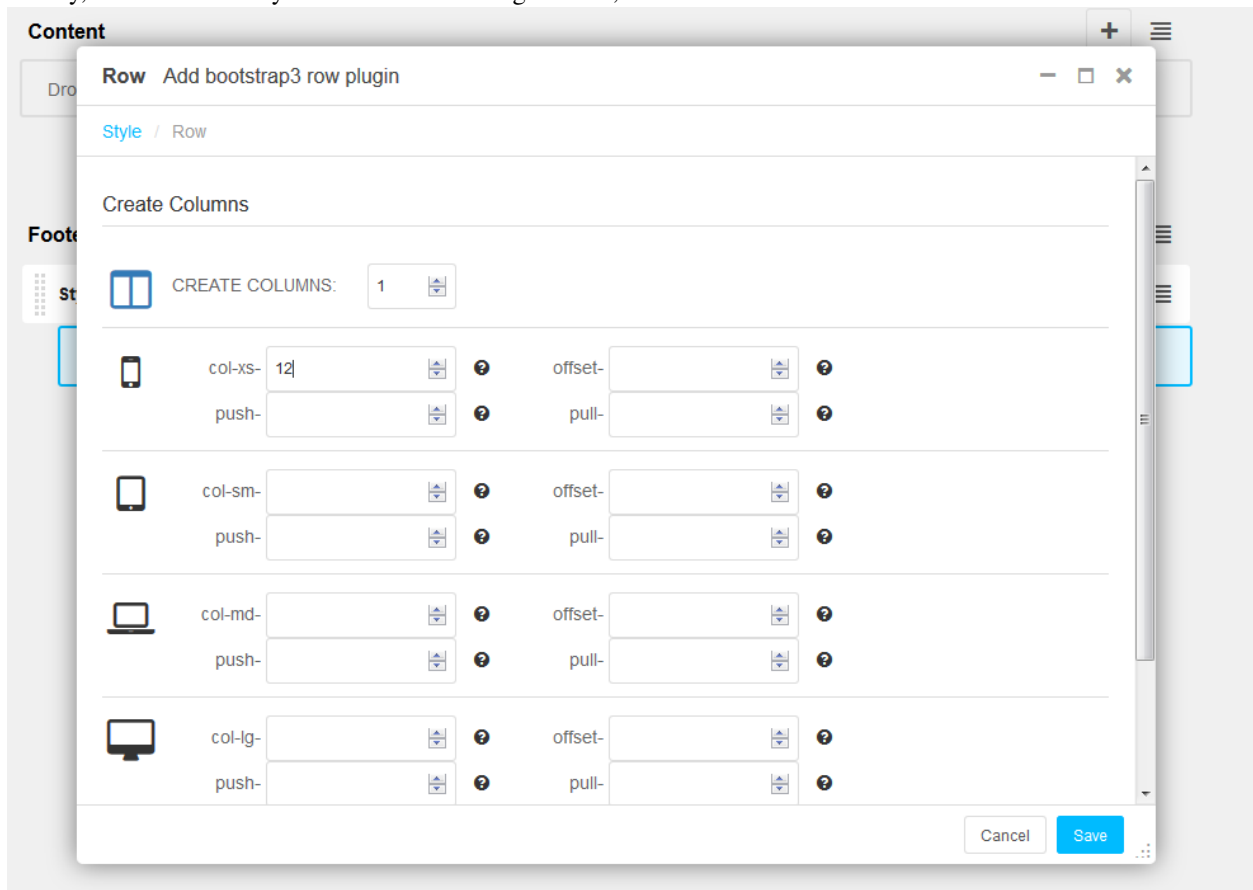
Now go to “<http://127.0.0.1:8000/en/>”, click on the footer and add a div element as below,



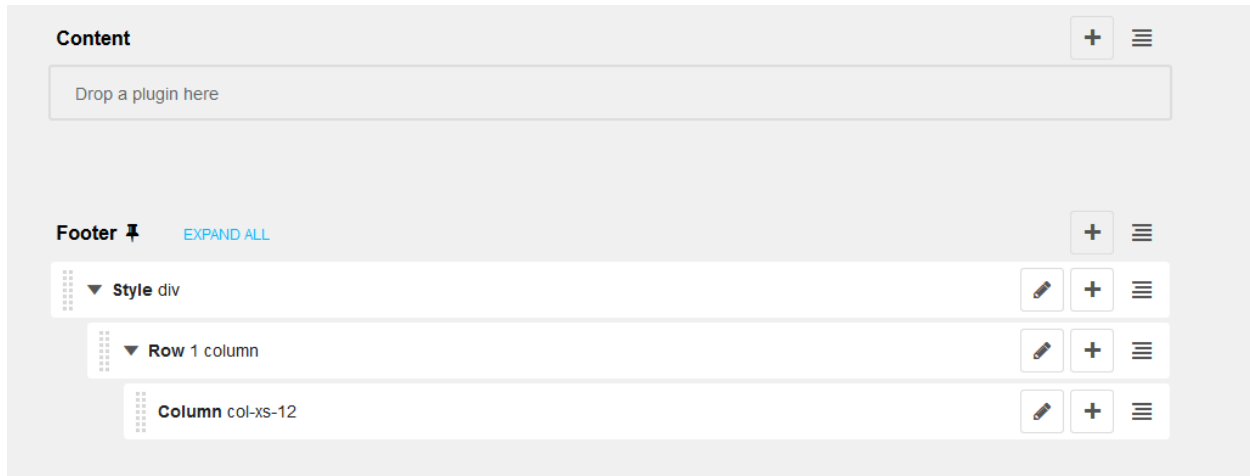
Then add a row to this div element as below,



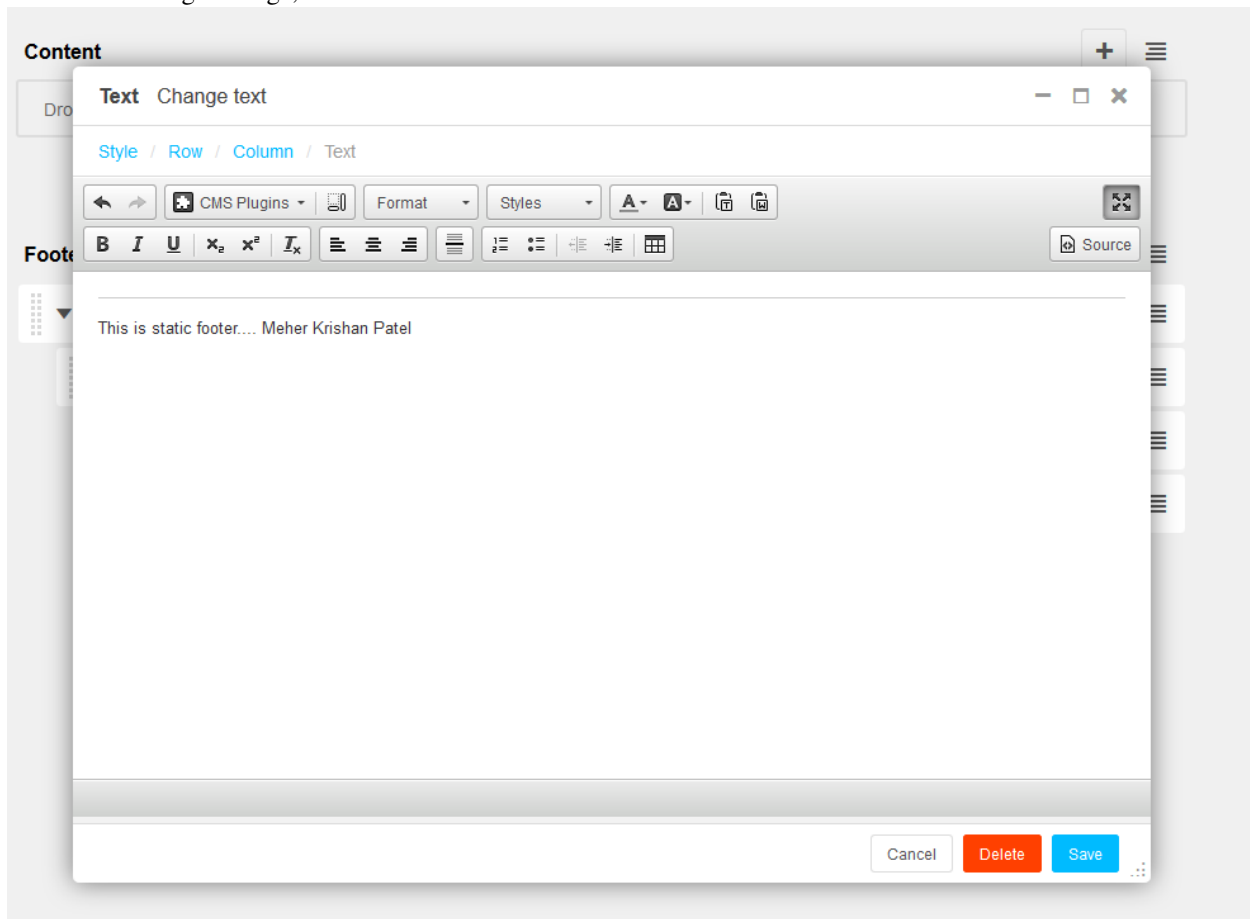
Finally, fill the values of your choice for creating column,



Now, click on the newly created Column and select the “text” menu and add your footer,

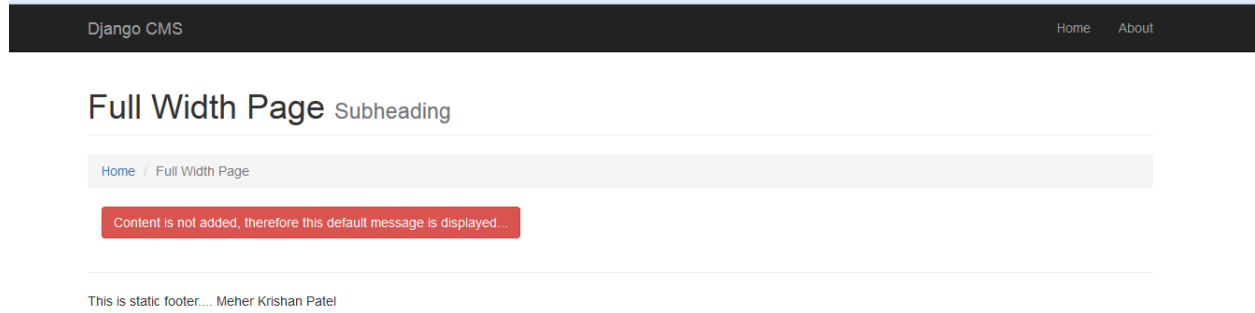


I added following message,

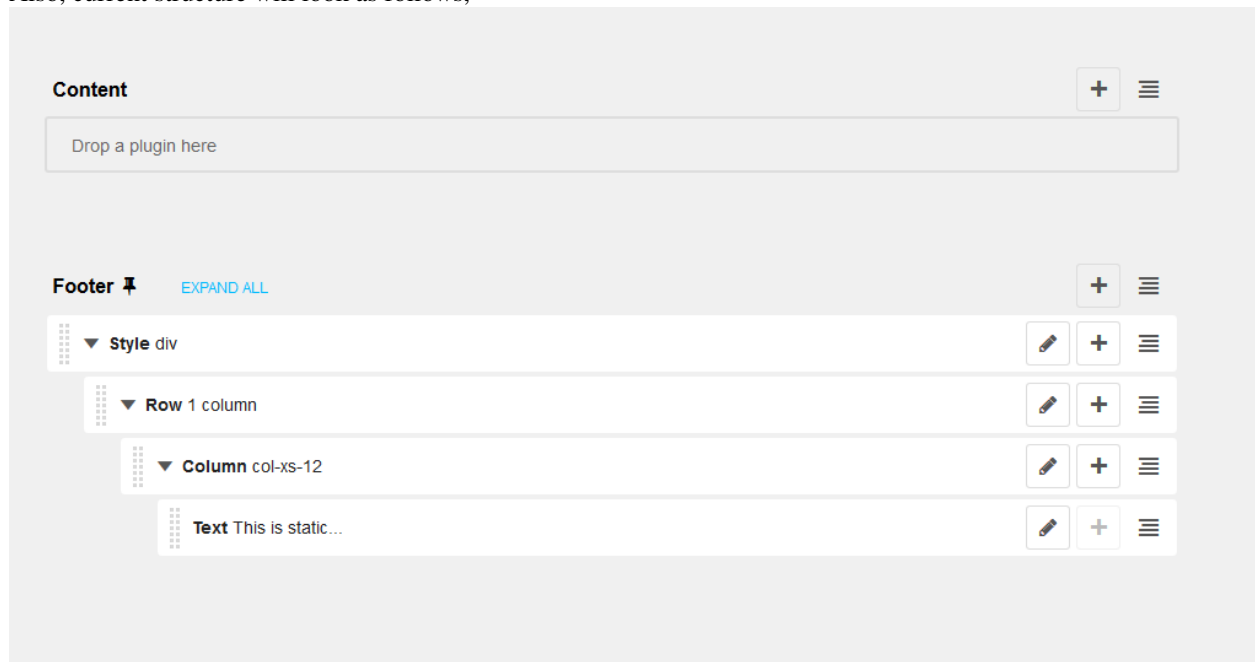


Following is the “about page” after above settings,





Also, current structure will look as follows,



Note that we did not add any content yet, therefore default message is displayed.



---

## Creating Final Page

---

In this section, we will create the page similar to bootstraps”modern-business” templated using CMS.

### 4.1 aldryn\_style Package

Before moving further, we will install “aldryn\_style” package which will provide the “label” option in creating style at CMS page. This is a handy option which allows us to recognize the style element by it’s name.

First install it by following command,

```
pip install aldryn_style
```

Next, comment the `djangoCMS_style` and add `aldryn_style` in `settings.py` at `INSTALLED_APPS`,

```
INSTALLED_APPS = [  
    [...]  
    # 'djangoCMS_style',  
    'aldryn_style',  
]
```

Next run the migrations commands i.e.

```
python manage.py makemigrations
```

```
python manage.py migrate
```

### 4.2 Creating Final Page

Now go to Home page and add new div element in “content” as follows. Note that the label option appear due to `aldryn_style`. We named it as `Welcome`, so that we can find it easily while updating the CMS,

The screenshot shows the 'Add style' dialog box in the Django CMS interface. The dialog is titled 'Style Add style' and has a close button. It contains the following fields and options:

- LABEL:** A text input field containing 'Welcome'.
- Optional label for this style plugin.** A text input field.
- CLASS NAME:** A dropdown menu with 'container' selected.
- Advanced Settings (Hide)** A link to toggle advanced settings.
- TAG TYPE:** A dropdown menu with 'div' selected.
- ADDITIONAL CLASSES:** A large text area for additional CSS classes.

At the bottom right of the dialog are 'Cancel' and 'Save' buttons.

Next, create a row as follows,

**Content** [EXPAND ALL](#)

Style "Welcome": div

Plugin will be added here

**Row** Add bootstrap3 row plugin

Style / Row

Create Columns

CREATE COLUMNS: 1

col-xs-	12	offset-	
push-		pull-	
col-sm-		offset-	
push-		pull-	
col-md-		offset-	
push-		pull-	
col-lg-		offset-	
push-		pull-	

Cancel Save

Now, in the similar fashion create the following structure,

Content EXPAND ALL

Create Structure Content View published **Publish changes**

- ▼ Style "Welcome": div
  - ▼ Row 1 column
    - ▼ Column col-xs-12
      - Text Welcome to Modern...
  - ▼ Row 3 columns
    - ▼ Column col-xs-12 col-sm-4 col-md-4 col-lg-4
      - ▼ Panel default
        - ▼ Panel Heading
          - ▼ Text Bootstrap v3.2.0
          - Icon fa-check
        - ▼ Panel Body
          - ▼ Text Lorem ipsum dolor...
          - Link/Button Learn More
      - ▼ Column col-xs-12 col-sm-4 col-md-4 col-lg-4
        - ▼ Panel default
          - ▼ Panel Heading
            - ▼ Text Free & Open...
            - Icon fa-gift
          - ▶ Panel Body
        - ▼ Column col-xs-12 col-sm-4 col-md-4 col-lg-4
          - ▼ Panel default
            - ▼ Panel Heading
              - ▶ Text Easy to Use
            - ▶ Panel Body
      - ▼ Style "Portfolio": div **Continued in next image**

The screenshot displays the Django CMS visual editor interface. It shows a hierarchical tree of page elements on the left and a corresponding visual representation on the right. The elements are organized into three main sections, each with a 'Style' attribute.

- Style "Portfolio": div**
  - Row 1 column
  - Style div
    - Row 3 columns
    - Row 3 columns
- Style "Modern Business Features": div**
  - Row 1 column
    - Column col-xs-12
      - Text Modern Business Features
  - Row 2 columns
    - Column col-xs-12 col-sm-6 col-md-6 col-lg-6
      - Text The Modern Business...
    - Column col-xs-12 col-sm-6 col-md-6 col-lg-6
      - Image 700x450.png
- Style "Call to Action": div**
  - Style div
    - Well
      - Row 2 columns
        - Column col-xs-12 col-sm-8 col-md-8 col-lg-8
          - Text Lorem ipsum dolor...
        - Column col-xs-12 col-sm-4 col-md-4 col-lg-4
          - Link/Button Call to Action

Each element in the tree has a corresponding visual representation on the right, showing its layout and styling. The visual representation includes icons for editing, adding, and deleting elements.



Finally, click on the “Publish Changes” button in right corner as show in one of the above images. This will generate following page and the contents of it can edited by anyone by clicking on individual element (i.e. without the knowledge of HTML).



## Welcome to Modern Business

### ✓ Bootstrap v3.2.0

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Itaque, optio corporis quae nulla aspernatur in alias at numquam rerum ea excepturi expedita tenetur assumenda voluptatibus eveniet incidunt dicta nostrum quod?

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### 📄 Free & Open Source

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### 👤 Easy to Use

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Itaque, optio corporis quae nulla aspernatur in alias at numquam rerum ea excepturi expedita tenetur assumenda voluptatibus eveniet incidunt dicta nostrum quod?

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## Portfolio Heading

700×450

700×450

700×450

700×450

700×450

700×450

## Modern Business Features

The Modern Business template by Start Bootstrap includes:

- Bootstrap v3.2.0
- JQuery v1.11.0
- Font Awesome v4.1.0
- Working PHP contact form with validation
- Unstyled page elements for easy customization
- 17 HTML pages

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Corporis, omnis doloremque non cum id reprehenderit, quisquam totam aspernatur tempora minima unde aliquid ea culpa sunt. Reiciendis quia dolorum ducimus unde.

700×450

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Molestias, expedita, saepe, vero rerum deleniti beatae veniam harum neque nemo praesentium cum alias asperiores commodi.

[Call to Action](#)