

03 Django (Static Files & HomePage)

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Preparing static files

- Create a folder named "static" inside the "psusphere/projectsite" folder. Ensure that this folder is at the same level as the "studentorg" folder.
- Inside the newly created "static" folder, copy the assets (such as CSS, JavaScript, images, etc.) from the theme called "Ready Bootstrap".

```
(base) Users-MacBook-Air:PSUSphere user$ cd projectsite/
(base) Users-MacBook-Air:projectsite user$ ls
db.sqlite3      manage.py      projectsite    static          studentorg
(base) Users-MacBook-Air:projectsite user$ cd static
(base) Users-MacBook-Air:static user$ ls
css      fonts  img    js      sass
```

- To enhance Django's form rendering capabilities, install Django widget tweaks using pip. Django widget tweaks allows for easier customization and styling of form widgets in Django templates.

```
$ pip install django-widget-tweaks
```

- Modify the settings.py

```
INSTALLED_APPS = [
    "django.contrib.admin",
    "django.contrib.auth",
    "django.contrib.contenttypes",
    "django.contrib.sessions",
    "django.contrib.messages",
    "django.contrib.staticfiles",
    "studentorg",
    "widget_tweaks",
]
```

- Navigate to the "psusphere/projectsite" folder.
- Create a folder named "templates" inside the "psusphere/projectsite" folder.
- Inside the "templates" folder, create another folder named "includes".
- Within the "includes" folder, create a file named "form.html".

```
{% load widget_tweaks %}

{% if form.non_field_errors %}
<div class="alert alert-danger" role="alert">
    {% for error in form.non_field_errors %}
        <p{% if forloop.last %} class="mb-0"{% endif %}>{{ error }}</p>
    {% endfor %}
</div>
{% endif %}

{% for field in form %}

<div class="field item form-group">
    <label>{{ field.label_tag }}</label>
    <div class="form-group">
        {% render_field field class="form-control" %}
    </div>

    {% for error in field.errors %}
        <div class="invalid-feedback">
            {{ error }}
        </div>
    {% endfor %}

</div>
{% endfor %}
```

- Within the "includes" folder, create a file named "**pagination.html**".

```
{% if is_paginated %}
<div class="card-footer px-0 border-0 d-flex flex-column flex-lg-row align-items-center justify-
content-between mt-3">
  <nav aria-label="Topics pagination" class="mb-4">
    <ul class="pagination">
      {% if page_obj.number > 1 %}
      <li class="page-item">
        <a class="page-link" href="?page=1">First</a>
      </li>
      {% else %}
      <li class="page-item disabled">
        <span class="page-link">First</span>
      </li>
      {% endif %} {% if page_obj.has_previous %}
      <li class="page-item">
        <a class="page-link" href="?page={{ page_obj.previous_page_number }}">Prev</a>
      </li>
      {% else %}
      <li class="page-item disabled">
        <span class="page-link">Prev</span>
      </li>
      {% endif %} {% for page_num in paginator.page_range %} {% if page_obj.number == page_num %}
      <li class="page-item active">
        <span class="page-link">
          {{ page_num }}
          <span class="sr-only">(current)</span>
        </span>
      </li>
      {% elif page_num > page_obj.number|add:'-3' and page_num < page_obj.number|add:'3' %}
      <li class="page-item">
        <a class="page-link" href="?page={{ page_num }}">{{ page_num }}</a>
      </li>
      {% endif %} {% endfor %} {% if page_obj.has_next %}
      <li class="page-item">
        <a class="page-link" href="?page={{ page_obj.next_page_number }}">Next</a>
      </li>
      {% else %}
      <li class="page-item disabled">
        <span class="page-link">Next</span>
      </li>
      {% endif %} {% if page_obj.number != paginator.num_pages %}
      <li class="page-item">
        <a class="page-link" href="?page={{ paginator.num_pages }}">Last</a>
      </li>
      {% else %}
      <li class="page-item disabled">
        <span class="page-link">Last</span>
      </li>
      {% endif %}
    </ul>
  </nav>
  <div class="fw-normal small mt-4 mt-lg-0">Showing <b>{{object_list.count}}</b> out of
  <b>{{paginator.count}}</b> entries</div>
</div>
{% endif %}
```

Setup HomePage

- Inside templates folder create base.html. Copy the content of typography.html from templates
- Modify the code in base.html

```
{% load static %}
<!DOCTYPE html>

<title>Typography - Ready Bootstrap Dashboard</title>
<title>{% block title %}PSUSphere{% endblock %}</title>

<link rel="stylesheet" href="assets/css/bootstrap.min.css">
<link rel="stylesheet" href="{% static 'css/bootstrap.min.css' %}">
```

```

146 <link rel="stylesheet" href="assets/css/ready.css">
147 <link rel="stylesheet" href="assets/css/demo.css">
148 <link rel="stylesheet" href="{% static 'css/ready.css' %}">
149 <link rel="stylesheet" href="{% static 'css/demo.css' %}">
150
151 <script src="assets/js/core/jquery.3.2.1.min.js"></script>
152 <script src="assets/js/plugin/jquery-ui-1.12.1.custom/jquery-ui.min.js"></script>
153 <script src="assets/js/core/popper.min.js"></script>
154 <script src="assets/js/core/bootstrap.min.js"></script>
155 <script src="assets/js/plugin/chartist/chartist.min.js"></script>
156 <script src="assets/js/plugin/chartist/plugin/chartist-plugin-tooltip.min.js"></script>
157 <script src="assets/js/plugin/bootstrap-notify/bootstrap-notify.min.js"></script>
158 <script src="assets/js/plugin/bootstrap-toggle/bootstrap-toggle.min.js"></script>
159 <script src="assets/js/plugin/jquery-mapael/jquery.mapael.min.js"></script>
160 <script src="assets/js/plugin/jquery-mapael/maps/world_countries.min.js"></script>
161 <script src="assets/js/plugin/chart-circle/circles.min.js"></script>
162 <script src="assets/js/plugin/jquery-scrollbar/jquery.scrollbar.min.js"></script>
163 <script src="assets/js/ready.min.js"></script>
164 <script src="{% static 'js/core/jquery.3.2.1.min.js' %}"></script>
165 <script src="{% static 'js/plugin/jquery-ui-1.12.1.custom/jquery-ui.min.js' %}"></script>
166 <script src="{% static 'js/core/popper.min.js' %}"></script>
167 <script src="{% static 'js/core/bootstrap.min.js' %}"></script>
168 <script src="{% static 'js/plugin/chartist/chartist.min.js' %}"></script>
169 <script src="{% static 'js/plugin/chartist/plugin/chartist-plugin-tooltip.min.js'
170 %}"></script>
171 <script src="{% static 'js/plugin/bootstrap-notify/bootstrap-notify.min.js' %}"></script>
172 <script src="{% static 'js/plugin/bootstrap-toggle/bootstrap-toggle.min.js' %}"></script>
173 <script src="{% static 'js/plugin/jquery-mapael/jquery.mapael.min.js' %}"></script>
174 <script src="{% static 'js/plugin/jquery-mapael/maps/world_countries.min.js' %}"></script>
175 <script src="{% static 'js/plugin/chart-circle/circles.min.js' %}"></script>
176 <script src="{% static 'js/plugin/jquery-scrollbar/jquery.scrollbar.min.js' %}"></script>
177 <script src="{% static 'js/ready.min.js' %}"></script>

```

```

179 <div class="main-panel">
180     {% block content %}
181     {% endblock %}
182     <div class="content">
183         ... (all codes in content div)
184     </div>
185

```

- Create home.html in the same directory of base.html

```

188 {% extends 'base.html' %} {% load static %} {% block content %}
189 <div class="content">
190     <div class="container-fluid">
191         <h4 class="page-title">Home</h4>
192         <div class="row">
193             <div class="col-md-12">
194                 <div class="card">
195                     <div class="card-header">
196                         <div class="card-title">Page Title</div>
197                         <div class="card-category">Page Subtitle</div>
198                     </div>
199                     <div class="card-body">Hello, World</div>
200                 </div>
201             </div>
202         </div>
203     </div>
204 </div>
205 {% endblock %}
206

```

- Modify settings.py

```

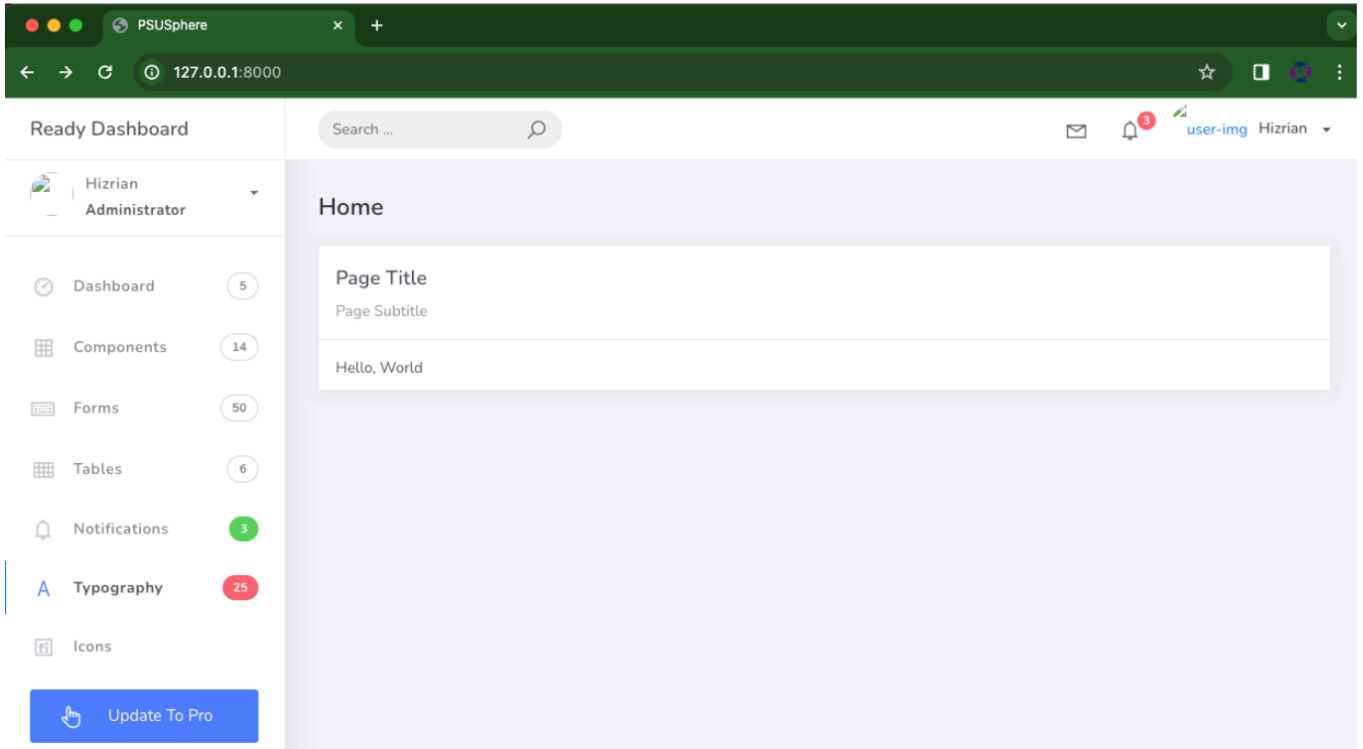
208 from pathlib import Path
209 import os
210
211 TEMPLATES = [
212     {
213         "BACKEND": "django.template.backends.django.DjangoTemplates",
214         "DIRS": [],
215         "DIRS": [os.path.join(BASE_DIR, 'templates')],
216         "APP_DIRS": True,
217         "OPTIONS": {
218             "context_processors": [
219                 "django.template.context_processors.debug",
220

```

```

221         "django.template.context_processors.request",
222         "django.contrib.auth.context_processors.auth",
223         "django.contrib.messages.context_processors.messages",
224     ],
225 },
226 },
227 ]
228
229 STATIC_URL = 'static/'
230 STATIC_ROOT = BASE_DIR / 'staticfiles'
231 STATICFILES_DIRS = (
232     BASE_DIR / 'static',
233 )
234 • Modify studentorg/views.py
235
236 from django.shortcuts import render
237 from django.views.generic.list import ListView
238 from studentorg.models import Organization
239
240 class HomePageView(ListView):
241     model = Organization
242     context_object_name = 'home'
243     template_name = "home.html"
244
245 • Modify projectsite/urls.py
246
247 from django.contrib import admin
248 from django.urls import path
249 from studentorg.views import HomePageView
250 from studentorg import views
251
252 urlpatterns = [
253     path("admin/", admin.site.urls),
254     path('', views.HomePageView.as_view(), name='home'),
255 ]
256
257 • Activate virtual environment
258 • Change directory where you can find manage.py then run server
259
260 $ python manage.py runserver
261

```



262
263