

BÀI 4: Mapping URL, Template, Static File, View

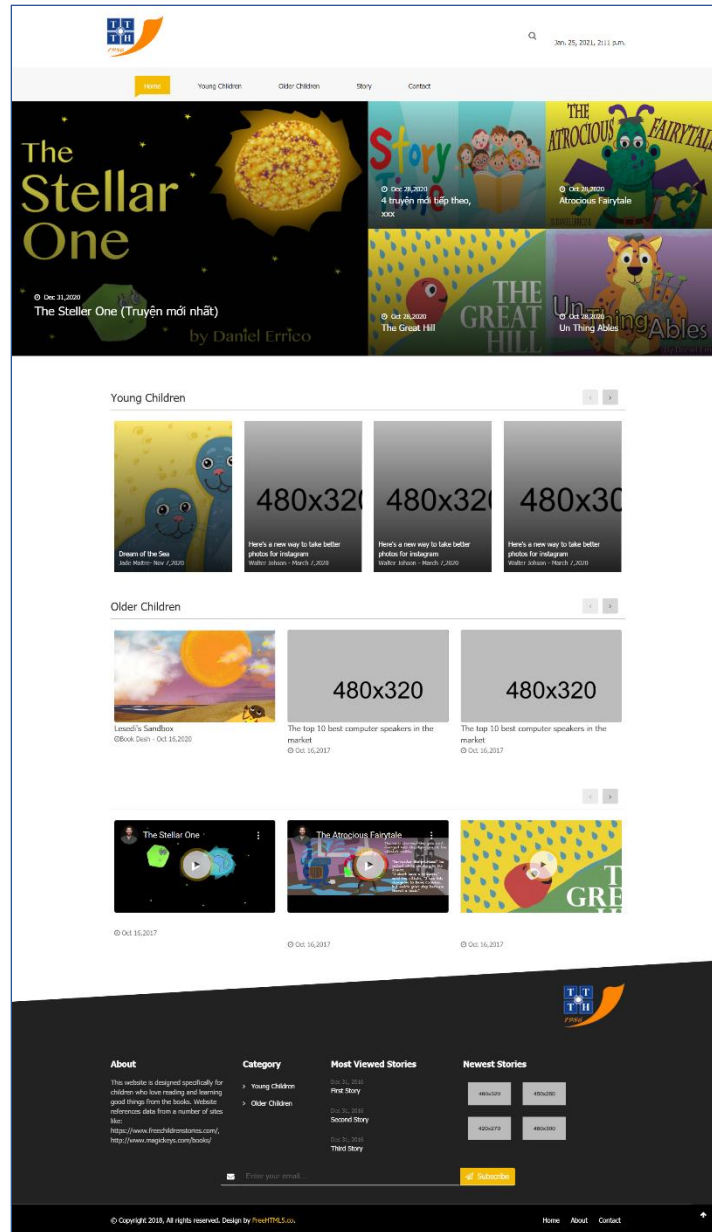


Mục tiêu chính:

- *Mapping URLs, Template*
- *Static File, View*

4.1. Xây dựng website khung chuẩn Django từ template mẫu được cung cấp

- ✓ **Yêu cầu:** Áp dụng kiến thức mapping URLs, Template, Static File và view để xây dựng website khung chuẩn Django từ template mẫu được cung cấp ReadStories:



Trang chủ (index.html)

Stories



DO YOU WONDER ABOUT RAIN, SNOW, SLEET AND HAIL? Professor Ture - December 18,2020

"What's to wonder about water?", you might ask. Professor Ture will tell you why. Filled with compelling illustrations, this free children's book takes a dive into a whirlpool of knowledge about the ubiquitous water that we often take for granted.



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Thomson Smith - April 18,2016

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Thomson Smith - April 18,2016

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Newest Stories



Lesedi's Sandbox.
Nov 18, 2020



Lesedi's Sandbox.
Nov 18, 2020



Lesedi's Sandbox.
Nov 18, 2020



Lesedi's Sandbox.
Nov 18, 2020

About

This website is designed specifically for children who love reading and learning good things from the books. Website references data from a number of sites like:
<https://www.freechildrenstories.com/>,
<http://www.magickeys.com/books/>

Category

- > Young Children
- > Older Children

Most Viewed Stories

- Dec 31, 2016
First Story
- Dec 31, 2016
Second Story
- Dec 31, 2016
Third Story

Newest Stories

480x320	450x260
420x270	480x300

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The Little Gingerbread Man

Written and Illustrated by Carol Moore

Once upon a time there was an old woman who loved baking gingerbread. She would bake gingerbread cookies, cakes, houses and gingerbread people, all decorated with chocolate and peppermint, caramel candies and colored frosting.

She lived with her husband on a farm at the edge of town. The sweet spicy smell of gingerbread brought children skipping and running to see what would be offered that day.

One day she made a special batch of gingerbread men because they were extra big. Unfortunately for the last gingerbread man she ran out of batter and he was half the size of the others.



She decorated the gingerbread men with care, each having socks, shirt and pants of different colors. When it came to the little gingerbread man she felt sorry for him and gave him more color than the others. "It doesn't matter he's small," she thought, "He'll still be tasty."

<http://www.magickeys.com/books/gingerbread/index.html>

New Stories



Un Thing Ables
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Trang story (story.html)





Jan. 25, 2021, 2:22 p.m.


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Trang contact (contact.html)

✓ Hướng dẫn

- Bước 1: Sử dụng lại project **MyNews** ở Bài 3
- Bước 2: Trong app **stories** > Khai báo class **StoriesConfig**:

```
MyNews > stories > apps.py > ...
1  ''' App config '''
2  from django.apps import AppConfig
3
4  class StoriesConfig(AppConfig):
5      name = 'stories'
```

- Bước 3: Đăng ký **StoriesConfig** trong settings.py của MyNews tại `INSTALL_APPS`:

```
INSTALLED_APPS = [
    'django.contrib.admin',
    ...
    'stories.apps.StoriesConfig',
]
```

- Bước 4: Đăng ký urls của stories trong urls.py của project MyNews (để khi run website thì sẽ hiển thị trang **index.html** của app **stories** trước tiên)

```
from django.contrib import admin
from django.urls import path, include
```

```
urlpatterns = [
    path('admin/', admin.site.urls),
    path('', include('stories.urls')),
]
```

- Run sever để xem kết quả:



- Bước 5: Trong app stories tạo thư mục static > trong static tạo thư mục stories (chứa các hình ảnh, css, js... tĩnh của stories copy từ template được cung cấp qua).
- Bước 6: Trong settings.py của project khai báo `STATIC_URL` và `STATIC_ROOT`:

```
# import os ở đầu file
STATIC_URL = '/static/'
STATIC_ROOT = os.path.join(BASE_DIR, 'static/')
```

- Bước 7: Trong app stories tạo thư mục templates > trong templates tạo thư mục stories (chứa các trang html của stories copy từ template được cung cấp qua) > đổi

tên blog.html thành category.html, single.html thành story.html, Contact_us.htm thành contact.html

- Bước 8: Sửa lại view index() dẫn đến trang index.html trong views.py của app stories

MyNews > stories > views.py > ...

```
1 import datetime
2 from django.shortcuts import render
3
4 # Create your views here.
5 from django.http import HttpResponse
6
7 def index(request):
8     now = datetime.datetime.now()
9     return render(request, "stories/index.html", {'today':now})
```

- Bước 9: Chạy thử website => sẽ thấy hiển thị trang index.html nhưng chưa theo định dạng chuẩn và chưa hiển thị hình ảnh, hiệu ứng.

- Bước 10: Chỉnh sửa trang index.html theo đúng chuẩn Django:

Đầu trang bổ sung: {% load static %}

Các thư viện:

<link href="{% static 'stories/css/media_query.css' %}" rel="stylesheet" type="text/css"/>

Các hình ảnh: Young Children (current)

=> chạy thử để xem kết quả

- Bước 11: Lần lượt tạo các view khác trong views.py của app stories như category, story, contact.

MyNews > stories > views.py > ...

```
1 import datetime
2 from django.shortcuts import render
3
4 # Create your views here.
5 from django.http import HttpResponse
6
7 now = datetime.datetime.now()
8 def index(request):
9     #return HttpResponse("Hello and welcome to <b>Stories for Child
10
11     return render(request, "stories/index.html", {'today':now})
12
13 def category(request):
14     return render(request, "stories/category.html", {'today':now})
15
16 def story(request):
17     return render(request, "stories/story.html", {'today':now})
18
19 def contact(request):
20     return render(request, "stories/contact.html", {'today':now})
```

- Bước 12: Tạo các url cho các view này tại urls.py của app stories

MyNews > stories > urls.py > ...

```
1 from django.urls import path
2 from . import views
3 app_name = 'stories'
4 urlpatterns = [
5     path('', views.index, name='index'),
6     path('category.html', views.category, name='category.html'),
7     path('story.html', views.story, name='story.html'),
8     path('contact.html', views.contact, name='contact.html'),
9 ]
```

- Bước 13: Chạy thử và xem kết quả
- Bước 14: Chỉnh sửa trang about.html, blog.html, static.html theo đúng chuẩn Django, có sử dụng static (có thể copy phần giống nhau từ index.html qua)=> chạy thử và xem kết quả.