Django Notes:

That command to make Django Project:

django-admin startproject monthly\_challenges

To make Sub file:

python3 manage.py startapp challenges

How to run a server:

python3 manage.py runserver

Now We are started our Django App:

Come in Challenges file and make urls.py file :

That is your url file

from django.urls import path

from . import views

from django.urls import reverse

urlpatterns=[

# path('january', views.january),

# path('february', views.february),

# path('march', views.march),

# path('april', views.april),

# path('may', views.may),

# path('june', views.june),

# path('july', views.july),

# path('august', views.august),

# path('september', views.september),

# path('october', views.october),

# path('november', views.november),

# path('december', views.december),

# path("<str:month>", views.monthly\_challenge),]

And that Is your views file In challenges folder:

from django.shortcuts import render

from django.http import HttpResponse, HttpResponseNotFound, HttpResponseRedirect

from django.urls import reverse

# Create your views here.

# def january(request):

# return HttpResponse('Walk daily atleadt 20km!')

# def february(request):

# return HttpResponse('reading a book daily!')

# def march(request):

# return HttpResponse('Eat health food!')

# def april(request):

# return HttpResponse('Help needy people!')

# def may(request):

# return HttpResponse(' Eat no meat for entire month!')

# def june(request):

# return HttpResponse('Don\'t eat too much food!')

# def july(request):

# return HttpResponse('Wake up to reality!')

# def august(request):

# return HttpResponse('Being good for everyone!')

# def september(request):

# return HttpResponse('Dont eat burger daily !')

# def october(request):

# return HttpResponse('Don\'t underestimate !')

# def november(request):

# return HttpResponse('Wake up early in the morning!')

# def december(request):

# return HttpResponse('Learn Django for atleast 20 minutes every day!')

And go and check the output :

Now that code you write here is very hard code so we are going to write some good manners

def monthly\_challenge(request, month):

challenge\_text=None

if month=='january':

challenge\_text='Walk daily atleadt 20km!'

elif month=='febuary':

challenge\_text='reading a book daily!'

elif month=='march':

challenge\_text='Eat health food!'

elif month=='april':

challenge\_text='Help needy people!'

elif month=='may':

challenge\_text=' Eat no meat for entire month!'

elif month=='june':

challenge\_text='Don\'t eat too much food!'

elif month=='july':

challenge\_text='Learn Django for atleast 20 minutes every day!'

elif month=='august':

challenge\_text='Wake up to reality!'

elif month=='september':

challenge\_text='Dont eat burger daily !'

elif month=='october':

challenge\_text='Don\'t underestimate !'

elif month=='november':

challenge\_text='Wake up early in the morning!'

elif month=='december':

challenge\_text='Being good for everyone!'

else:

return HttpResponseNotFound('This month is not supported')

return HttpResponse(challenge\_text)

and add urls file :

path("<str:month>", views.month\_challenges),

but you see also the code are not good for example if you have a project and you want to make some changes in your code, you can change your whole code so we have a solution

make a dummy data set in your views file :

monthly\_challenges={

'january':'Walk daily atleadt 20km!',

'febuary':'reading a book daily!',

'march':'Eat health food!',

'april':'Help needy people!',

'may':' Eat no meat for entire month!',

'june':'Don\'t eat too much food!',

'july':'Learn Django for atleast 20 minutes every day!',

'august':'Wake up to reality!',

'september':'Dont eat burger daily !',

'october':'Wake up early in the morning!',

'november':'Don\'t underestimate !',

'december':'Being good for everyone!',

}

And now we are going to assess the dictionary

from django.http import HttpResponse, HttpResponseNotFound, HttpResponseRedirect

from django.urls import reverse

# Sample monthly challenges

monthly\_challenges = {

'january': 'Walk daily at least 20km!',

'february': 'Read a book daily!',

'march': 'Eat healthy food!',

'april': 'Help needy people!',

'may': 'Eat no meat for the entire month!',

'june': 'Don\'t eat too much food!',

'july': 'Learn Django for at least 20 minutes every day!',

'august': 'Wake up to reality!',

'september': 'Don\'t eat burgers daily!',

'october': 'Wake up early in the morning!',

'november': 'Don\'t underestimate!',

'december': 'Be good to everyone!',

}

def month\_challenges(request, month):

challenge\_text = monthly\_challenges.get(month)

if challenge\_text:

return HttpResponse(challenge\_text)

else:

return HttpResponseNotFound('This month is not supported.')

and add urls file :

path('<str:month>/', views.month\_challenges, name='monthly\_challenges'),

and one another way to access the months that is you entered a number for example 1,3, 5 any and show output like same

def month\_challenge\_by\_number(request, month):

try:

monthly = list(monthly\_challenges.keys())

forwards\_month = monthly[month - 1] # Get the month name based on the number

redirect\_path = reverse('monthly\_challenges', args=[forwards\_month])

return HttpResponseRedirect(redirect\_path)

except IndexError:

return HttpResponseNotFound('Invalid month number.')

and add urls file :

path("<int:month>", views.month\_challenge\_by\_number, name="monthly\_challenge"),

and now we are going some advance level and add some HTML I wanna add some click able button for example 12 month name are shown in array whan I click show the output:

lets try your own

that add in your urls file:

path('', views.index),

and that add in your views file:

def index(request):

list\_items = ''

monthly = list(monthly\_challenges.keys())

for month in monthly:

capitalized\_month = month.capitalize()

month\_path = reverse('monthly\_challenges', args=[month])

list\_items += f'<li><a href=\'{month\_path}\'>{capitalized\_month}</a></li>'

response\_data = f"<ul>{list\_items}</ul>"

return HttpResponse(response\_data)