1. Current Date and Time, four hours ahead and before

Settings.py:

```
INSTALLED_APPS = [
    'django.contrib.admin',
    'django.contrib.auth',
    'django.contrib.contenttypes',
    'django.contrib.sessions',
    'django.contrib.messages',
    'django.contrib.staticfiles',
    'app1',
    'listapp',
    'date',
    'website',
    'app5',
]
```

Project urls.py:

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

urlpatterns = [
    path("",include("app1.urls")),
    path("",include("listapp.urls")),
    path("",include("date.urls")),
    path("",include("website.urls")),
    path("",include("app5.urls")),
    path('admin/', admin.site.urls),
]
```

Views.py:

```
from django.shortcuts import render
from django.http import HttpResponse
from django.template import loader
from datetime import datetime,timedelta

v def app3(request):
    current_datetime=datetime.now()
    delta=timedelta(hours=+4)
    newtime=current_datetime+delta
    beforetime=current_datetime-delta
    html="<html><body><b>Current_Date and Time: </b> %s </body></html>"% current_datetime
html1="<html><body><b>Current_Date and Time: </b> %s </body></html>"% newtime
html2=html+html1+"<html><body><br/><b>Four Hour after: </b> %s </body></html>"% newtime
return HttpResponse(html2)
```

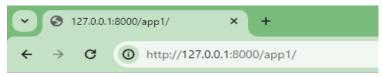
```
from django.shortcuts import render
from django.http import HttpResponse
from django.template import loader
from datetime import datetime

def app1(request):
    current_datetime=datetime.now()
    html="\html>\body>\cb>Current date and time :</b>%s</body>\\html>"%current_datetime
    return HttpResponse(html)
```

App urls.py:

```
from django.urls import path
from . import views
urlpatterns=[
    path('app3/',views.app3,name='app3'),
]
```

Output:



Current date and time: 2024-06-14 23:51:19.076724



Current Date and Time: 2024-06-14 23:52:12.2773 Four Hour after: 2024-06-15 03:52:12.277398 Fours hours before: 2024-06-14 19:52:12.277398

2. Fruits and Student List and Basic small website and webpages

Settings.py:

```
INSTALLED_APPS = [
    'django.contrib.admin',
    'django.contrib.auth',
    'django.contrib.contenttypes',
    'django.contrib.sessions',
    'django.contrib.messages',
    'django.contrib.staticfiles',
    'app1',
    'listapp',
    'date',
    'website',
    'app5',
]
```

Project Urls.py:

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

urlpatterns = [
    path("",include("app1.urls")),
    path("",include("listapp.urls")),
    path("",include("date.urls")),
    path("",include("website.urls")),
    path("",include("app5.urls")),
    path('admin/', admin.site.urls),
]
```

Views.py:

```
istapp > views.py

from django.shortcuts import render

from django.http import HttpResponse

def listapp(request):

fruits=['Apple','Banana','Orange','Mango','Pineapple']

students=['John','Jane','Mike','Sarah','Tom']

context={

'fruits':fruits,

'students':students

return render(request,'list.html',context)

return render(request,'list.html',context)
```

```
wiews.py X
website > views.py

1    from django.shortcuts import render
2
3          def website(request):
4          return render(request, 'home.html')
5          def about(request):
6          return render(request, 'about.html')
7          def contact(request):
8          return render(request, 'contact.html')
9
```

App urls:

```
vurls.py X
listapp > vurls.py
from django.urls import path
from . import views

urlpatterns=[
path('listapp/',views.listapp,name='listapp'),

j
```

Html:

```
| Sistamp | Stemplates | Statement | State
```

Output:



Fruits

- Apple
- Banana
- OrangeMango
- Pineapple

Selected Students

- JohnJane
- JaneMike
- MikeSarah
- Tom



Contact Us

- Email: abc@gmail.com
 Phone: 123-456-789
 Address: 123 Main Street,City,State

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- <u>Home</u>
- About Us Contact Us

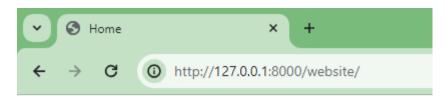
About Us

We are a Company that provides awesome products.

Web Development

This website is a part of our Fullstack Laboratory.

© 2024 SMVITM. Developed by abo



- Home
- About Us
- Contact Us

Welcome to my Website.

This is the home page of my website.

© 2024 SMVITM. Developed by abc

3. Student registration

Settings.py:

```
ALLED_APPS = [
'django.contrib.admin',
'django.contrib.auth',
'django.contrib.auth',
'django.contrib.contenttypes',
'django.contrib.sessions',
'django.contrib.messages',
'django.contrib.staticfiles',
'app1',
'listapp',
'date',
'website',
```

Urls.py

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

urlpatterns = [
    path("",include("app1.urls")),
    path("",include("listapp.urls")),
    path("",include("date.urls")),
    path("",include("website.urls")),
    path("",include("app5.urls")),
    path('admin/', admin.site.urls),
]
```

Admin.py:

```
admin.py X
app5 > damin.py
from django.contrib import admin
from .models import Course,Student,Project

class CourseAdmin(admin.ModelAdmin):
    list_display=('name','description')
    admin.site.register(Course,CourseAdmin)

class StudentAdmin(admin.ModelAdmin):
    list_display=('first_name','last_name','email')
    filter_horizontal=('courses',)
    admin.site.register(Student,StudentAdmin)

class ProjectAdmin(admin.ModelAdmin):
    list_display=('topic','languages_used','duration')
    admin.site.register(Project,ProjectAdmin)

# Register your models here.
```

Urls.py:

Forms.py:

Models.py:

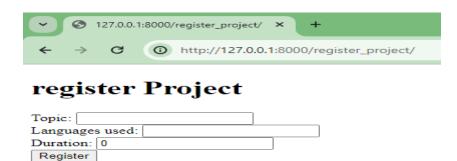
Views.py:

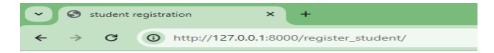
Html:

```
app5 > templates > <> studentlist.html > ...
1      <!DOCTYPE html>
2      <html lang="en">
          <meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
          <title>student registration</title>
          1 <!DOCTYPE html>
2 <html lang="en">
          <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>student registration</title>
                <form method="post">
                    {% csrf_token %}
{% for field in form %}
                    {{field.label_tag}}
{{field}}
                    {% endfor %}
<button type="submit">Register</button>
       </body>
                       app5 > templates > <> register_project.html > ...
        <!DOCTYPE html>
<html lang="en">
              <h1> register Project</h1>
<div>
                          {% csrf_token %}
{% for field in form %}
                         {{field.label_tag}}
{{field}}
</div>
                          {% endfor %}
<button type="submit">Register</button>
```

```
register_course.html ×
app5 > templates > 💠 register_course.html > ...
        <!DOCTYPE html>
        <html lang="en">
            <h1> register course</h1>
                  <form method="post">
                       {% csrf_token %}
                       {% for field in form %}
                            {{field.label_tag}}
                            {{field}}
                       {% endfor %}
                       <button type="submit">Register</button>
                  </form>
projectlist.html ×
      <html lang="en">
          <meta charset="UTF-8">
          <meta name="viewport" content="width=device-width, initial-scale=1.0">
          <title>student registration</title>
          <h1>Students registered for {\{project.topic\}}</h1>
              {% endfor %}
     <!DOCTYPE html>
              {% for course in course %}
     <a href="{% url 'studentlist' course.id %}">{{course.name}}</a>
     {% endfor %}
            {% for project in projects %}
               </pre
            <a href="{% url 'register_student' %}">register student</a>
<a href="{% url 'register_course' %}">register course</a>
<a href="{% url 'register_project' %}">register Project</a>
     </body>
```

Output:





register student





register course





Students registered for Dbms

- stellaharper
- lilyjack



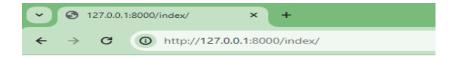
Students registered for Web dev

- lillyrose
- lilyjack



Students registered for android dev

stellaharper



courses

- <u>android dev</u><u>Web dev</u>
- <u>ss</u>

Projects

- Dbms
- <u>os</u>

register student register course register Project