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SEM: VI B

(1)

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3/6/21

1. => endsem/settings.py

import os

INSTALLED\_APPS = [

~~('studentApp', 'studentApp')~~

('rest\_framework',

]

TEMPLATES = [

{  
 'BACKEND': 'django.template.backends.django.DjangoTemplates',  
 'DIRS': [os.path.join(BASE\_DIR, 'templates')],  
 'APP\_DIRS': True,  
 'OPTIONS': {  
 'context\_processors': [  
 'django.template.context\_processors.debug',  
 'django.template.context\_processors.request',  
 'django.contrib.auth.context\_processors.auth',  
 'django.contrib.messages.context\_processors.messages',  
 ],  
 },  
}]

DATABASES = {

'default': {  
 'ENGINE': 'django.db.backends.sqlite3',  
 'NAME': BASE\_DIR / 'db.sqlite3',  
 },  
}

3.3

endsem/urls.py

from django.conf.urls import include

urlpatterns = [

path('admin/', admin.site.urls),

path('', include('studentApp.urls'))

]

## Student App:-

① StudentApp/admin.py  
from django.conf.urls import admin  
from .models import Student  
admin.site.register(Student).

② StudentApp/models.py  
from django.db import models  
class Student (models.Model):  
 regNO = models.PositiveBigIntegerField()  
 name = models.CharField(max\_length=100)  
 gpa = models.DecimalField(  
 decimal\_places=2, max\_digits=5)  
  
 def \_\_str\_\_(self):  
 return self.regNO + " " + self.name

~~③ StudentApp/serializers.py~~

③ StudentApp/serializers.py :-  
~~StudentApp/serializers.py~~

from django.db.models import fields.  
from rest\_framework import serializers  
from .models import Student

class StudentSerializer(serializers.  
ModelSerializer):

class Meta:  
 fields = '\_\_all\_\_'  
 model = Student



④ studentApp/urls.py :-

③ ⑤

```
from django.urls import path
from .views import *
```

```
urlpatterns = [
```

```
    path('home',
```

```
    path('students', ListStudent.as_view(),
          name="students"),
```

```
    path("allStudents", allStudents),
```

```
    path("about", about),
```

```
]
```

⑤ studentApp/views.py :-

```
from django.shortcuts import render
from .models import Student
```

```
def index(request
```

```
from rest_framework import generics, filters
from .serializers import *
```

```
from .
```

```
class ListStudent(generics.ListCreateAPIView):
    queryset = Student.objects.all()
    serializer_class = StudentSerializer
```

```
class DetailStudent(generics.RetrieveUpdate
    DestroyAPIView):
    queryset = Student.objects.all()
    serializer_class = StudentSerializer
```

```
def allstudents(request):  
    students = student.objects.all()  
    return render(request, 'allstudents.html',  
                  {"students": students})
```

```
def about(request):  
    obj = student.objects.get(id=1)  
    return render(request, 'about.html',  
                  {"students": obj}).
```



\* templates/about.html:-

```
<html lang="en">
```

```
<head>
```

```
<meta charset="UTF-8">
```

```
<meta http-equiv="x-UA-Compatible"  
content="IE=edge" />
```

```
<meta name="viewport" content="width=  
device-width, initial-scale=1.0" />
```

```
<link rel="stylesheet" href="https://stackpath.  
bootstrap.com/bootstrap/4.3.1/css/bootstrap.  
min.css" integrity="crossorigin="anonymous">
```

```
<title> About </title>
```

```
</head>
```

```
<body>
```

```
<nav class="navbar navbar-expand-lg  
navbar-light bg-light">
```

```
<div class="collapse navbar-collapse"  
id="navbarSupportedContent">
```

```
<ul class="navbar-nav mr-auto">
```

```
<li class="nav-item">
```

```
<a class="nav-link" href="allstudents"
```

```
tabindex="-1"> About </a> All students </a>
```

```
</li>
```

```
<li class="nav-item active">
```

```
<a class="nav-link" href="about"
```

```
tabindex="-1"> About </a>
```

```
</li>
```

```
</ul>
```

```
<form class="form-inline my-2 my-lg-0">
```

```
<input class="form-control mr-sm-2" type=  
"search" placeholder="Search" aria-label=  
"Search">
```

```
<button class="btn btn-outline-success my-2
```

```

my-sm-0" type="submit"> Search </button>
</form>
</div>
</nav>

```

```

<table class="table table-dark">
  <thead>
    <tr>
      <th scope="col"> # </th>
      <th scope="col"> Name </th>
      <th scope="col"> RegNo </th>
      <th scope="col"> GPA </th>
    </tr>
  </thead>
  <tbody>

```

```

    <tr>
      <th scope="row"> 1 </th>
      <td> {{ student.name }} </td>
      <td> {{ student.regNo }} </td>
      <td> {{ student.gpa }} </td>
    </tr>
  </tbody>
</table>

```

```

<script src="https://code.jquery.com/jquery-3.3-1-
  slim.min.js" crossorigin="anonymous">
</script>

```

```

<script src="https://cdnjs.cloudflare.com/ajax/libs/
  popper.js/1.14.7/umd/popper.min.js"
  crossorigin="anonymous"> </script>

```

```

<script src="https://stackpath.bootstrapcdn.com/
  bootstrap/4.3.1/js/
  bootstrap.min.js"
  crossorigin="anonymous">
</script>

```

```

</body>
</html>

```



templates/allstudents.html

(7)

<html>

<head>

<link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css" crossorigin="anonymous">

</head>

<title> allstudents </title>

</head>

<body>

<nav class="navbar navbar-expand-lg navbar-light bg-light">

<div class="collapse navbar-collapse" id="navbarSupportContent">

<ul class="navbar-nav mr-auto">

<li class="nav-item active">

<a class="nav-link" href="#">

allstudents <span class="sr-only">current</span>

</span></a>

</li>

<li class="nav-item">

<a class="nav-link" href="#about" tabindex=1>

About </a>

</li>

</ul>

<form class="form-inline my-2 my-lg-0">

<input class="form-control mr-sm-2"

type="search" placeholder="Search"

aria-label="Search">

<button class="btn btn-outline-success"

my-2 my-sm-0" type="submit">

Search </button>

</form>

</div>

</body>

```
<table class="tblinfo"
```

```
<thead>
```

```
<tr>
```

```
<th scope="col">#</th>
```

```
<th scope="col">Name</th>
```

```
<th scope="col">Region</th>
```

```
<th scope="col">GPA</th>
```

```
</tr>
```

```
<tbody>
```

```
  <tr><td>for student in students</td>
```

```
<tr>
```

```
<td>{{ student.id }}</td>
```

```
<td>{{ student.name }}</td>
```

```
<td>{{ student.region }}</td>
```

```
<td>{{ student.gpa }}</td>
```

```
</tr>
```

```
  </tr></tbody>
```

```
</table>
```

```
</table>
```

```
</table>
```

```
</table>
```