

## SPRINT 1

|                     |  |
|---------------------|--|
| <b>Date</b>         | 16-11-2022   |
| <b>Team ID</b>      | PNT2022TMID17342                                       |
| <b>Project Name</b> | IoT Based Smart Crop Protection System for Agriculture |

Urls.py :

```
urlpatterns = [  
path("", views.college, name="college"),  
path("notice/<int:myid>/", views.notice,  
name="notice"),  
path("application_form/", views.application_form,  
name="application_form"), path("edit_application/",  
views.edit_application, name="edit_application"), path("status/",  
views.status, name="status"),  
  
# Authentication  
path("register/", views.register, name="register"),  
path("login/", views.loggedin, name="login"),  
path("logout/", views.loggedout,  
name="logout"),  
  
# Admin  
path("handle_admin/", views.handle_admin,  
name="handle_admin"), path("users/", views.users,
```

```

name="users"),
    path("student_application/<int:myid>/", views.student_application,
        name="student_application"), path("application_status/<int:pk>/",
        UpdatePostView.as_view(), name="application_status"),
    path("approved_applications/", views.approved_applications,
        name="approved_applications"), path("pending_applications/",
        views.pending_applications, name="pending_applications"),
    path("rejected_applications/", views.rejected_applications,
        name="rejected_applications"),
]

```

### Code Explanation:

It is considered to be a good practice to create a separate urls file for each app. The urls are into three parts 1) For users 2) User Authentication 3) For admin

Models.py :

```

from django.db import models
from django.contrib.auth.models
import User from
django.utils.timezone import now
from django.urls import reverse

```

class

```

Application(models.Mod
el): COURSES = (
('Computer Science Engineering', 'Computer Science
Engineering'), ('Information Technology Engineering',

```

```
'Information Technology Engineering'),  
    ('Electronics and Telecommunication Engineering', 'Electronics and  
    Telecommunication Engineering'), ('Electronics Engineering', 'Electronics  
    Engineering'),  
    )
```

```
STATUS = (  
    ('Approved',  
     'Approved'),  
    ('Pending', 'Pending'),  
    ('Rejected',  
     'Rejected'),  
    )
```

```
user = models.OneToOneField(User, on_delete=models.CASCADE,  
blank=True, null=True) course = models.CharField(max_length=100,  
choices= COURSES)  
name =  
models.CharField(max_length=200)  
email =  
models.CharField(max_length=200)  
phone_no =  
models.CharField(max_length=200)  
address =  
models.TextField(max_length=200)  
student_profile = models.ImageField(upload_to="images")
```

```

ssc_percentage = models.DecimalField(max_digits=4, decimal_places=2,
null=True)

ssc_marksheet = models.ImageField(upload_to="images", null=True)

ssc_passing_certificate = models.ImageField(upload_to="images",
null=True) ssc_leaving_certificate =
models.ImageField(upload_to="images", null=True) hsc_percentage =
models.DecimalField(max_digits=4, decimal_places=2, null=True)

hsc_marksheet = models.ImageField(upload_to="images", null=True)
hsc_passing_certificate = models.ImageField(upload_to="images",
null=True) hsc_leaving_certificate =
models.ImageField(upload_to="images", null=True) cet_percentile =
models.DecimalField(max_digits=5, decimal_places=3, null=True)
cet_scorecard = models.ImageField(upload_to="images", null=True)
jee_percentile = models.DecimalField(max_digits=5, decimal_places=3,
null=True) jee_scorecard = models.ImageField(upload_to="images",
null=True)

Application_Status = models.TextField(max_length=100, choices=STATUS,
default="Pending") message = models.TextField(max_length=100, default="")

def str(self):

    return

    self.name

def get_absolute_url(self):

```

```
return reverse('users')
```

```
class Notice(models.Model):
```

```
    title = models.CharField(max_length=200)
```

```
    def str(self):
```

```
        return
```

```
        self.title
```

```
class Detail(models.Model):
```

```
    title = models.ForeignKey(Notice,
```

```
    on_delete=models.CASCADE) notice =
```

```
    models.CharField(max_length=200)
```

```
    def str(self):
```

```
        return
```

```
        self.notice Code
```

Explanation:

The most important model of python college admission system is the Application model. It stores all the details of the students personal and educational details. The student while filling the application form gives all these details. The status and message are edited by the admin. Notice and Detail model stores the notice for first, second, third, and fourth year students. It is possible to add any notice for any category of students.

1. For the home page, all the notice for different year students will be shown (college.html):

```

<div class="container mt-4">
    <h1>Important Notice</h1>
<div class="row mt-4">
    {% for i in notice %}
        <div class="col-sm-6">
<div class="card">
    <div class="card-body">
        <h5 class="card-title">{{i.title}}</h5>
        <p class="card-text"><a href="/notice/{{i.id}}/">View all recent
        updates.</a></p>
    </div>
</div>
</div>
    {% endfor %}
</div>
</div>

```

Views.py :

```

def college(request):
    notice = Notice.objects.all()

    return render(request, "college.html",

```

{'notice':notice}) Code Explanation:

On the first page of the project all the notices will be displayed by using the for loop from the Notice model. Students can see the notice by clicking on the title regarding their year or branch.