

Program-6

For student and course models created in Lab experiment for Module2, register admin interfaces, perform migrations and illustrate data entry through admin forms.

Create application:

```
>python manage.py startapp lab6
```

In lab6 subfolder, write code in admin.py

```
from django.contrib import admin
from lab6.models import Course, Student

admin.site.register(Student)
admin.site.register(Course)

class StudentAdmin(admin.ModelAdmin):
    list_display = ('student_name', 'student_usn', 'student_sem')
    ordering = ('student_name',)
    search_fields = ('student_name',)
```

In lab6 subfolder, write code in models.py

```
from django.db import models

class Course(models.Model):
    course_code=models.CharField(max_length=40)
    course_name=models.CharField(max_length=100)
    course_credits=models.IntegerField(blank=True, null=True)
    def __str__(self):
        return self.course_name

class Student(models.Model):
    student_usn=models.CharField(max_length=20)
    student_name=models.CharField(max_length=100)
    student_sem=models.IntegerField()
    enrolment=models.ManyToManyField(Course)
    def __str__(self):
        return self.student_name+"("+self.student_usn+")"
```

In lab6 subfolder, write code in urls.py

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

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

Output:

- Activate app by adding app name 'lab6' in the settings.py in the project folder p.
- Run command for propagating changes into database schema.

```
>python manage.py makemigrations
>python manage.py migrate
```

- Save and Run server by executing command:

```
>python manage.py runserver
```

- **Insert records into the student table**

DB Browser for SQLite - C:\Users\91974\OneDrive\Desktop\django_l...

File Edit View Tools Help

New Database Open Database Write Changes

Database Structure Browse Data

Table: lab6_student

	id	student_usn	student_name	student_sem
	Filter	Filter	Filter	Filter
1	1	001	agasthya	6
2	2	002	ayra	6
3	3	003	pari	6
4	4	004	sanchi	6

- **Insert records into the course table.**

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File Edit View Tools Help

New Database Open Database Write Changes Revert Changes

Database Structure Browse Data

Table: lab6_course

	id	course_code	course_name	course_credits
	Filter	Filter	Filter	Filter
1	2	21CS62	Full stack development	4
2	3	21CS63	Software testing	3

- **Create user, executing the command:**
>python manage.py createsuperuser

```
[11/Jul/2024 13:04:58] "POST /secretadmin/lab6/student/add/ HTTP/1.1" 500 204091
PS C:\Users\91974\OneDrive\Desktop\django_lab> python manage.py createsuperuser
Username (leave blank to use '91974'): chithanya
Email address: chaithanya@gmail.com
Password:
Password (again):
```

- **Use the user ID and password to login to the admin site:**

127.0.0.1:8000/secretadmin/login/?next=/secretadmin/

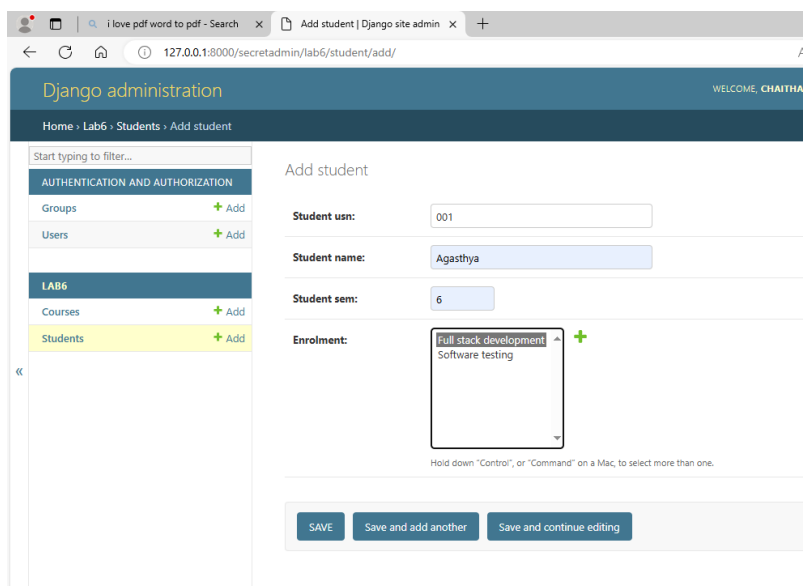
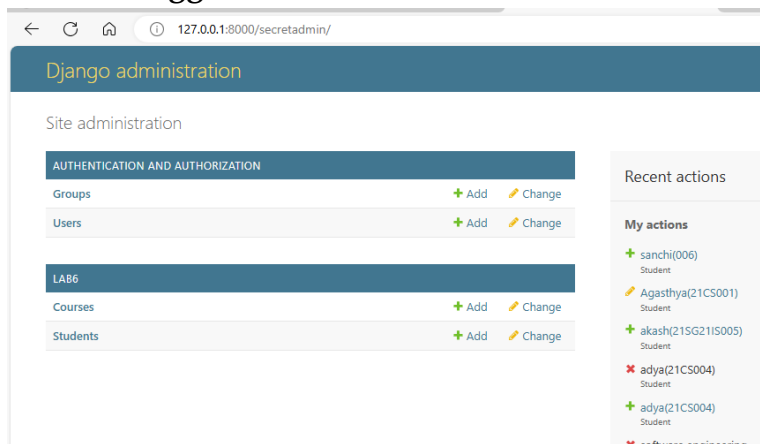
Django administration

Username:

Password:

Log in

- Once logged in, we can enrol student to courses:



Enrolment is reflected in the student enrolment table.

