



**INSTITUTE OF TECHNOLOGY,
NIRMA UNIVERSITY**

2CSDE86 Application Development Framework

PRACTICAL 3

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Semester : 7th

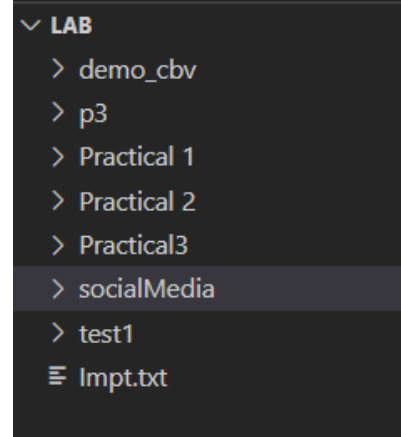
Teacher's Signature :

Aim :

Design model for a new social media platform registration page using Django. Register the model to built-in admin app of Django. Ensure appropriate fields are selected for the registration page.

1. Creating Project

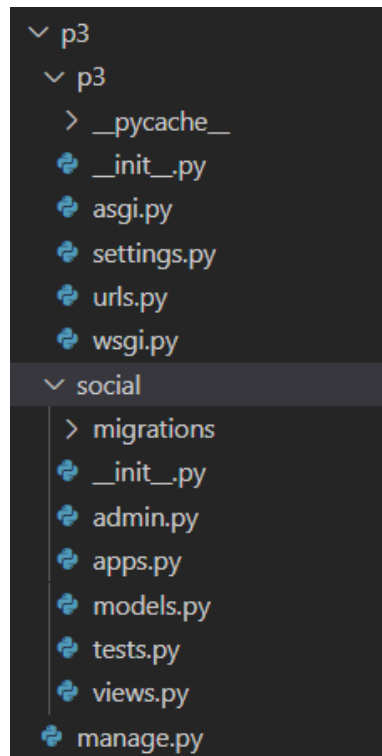
```
(Django) D:\BE\Sem-7\ADF\LAB>django-admin startproject p3  
(Django) D:\BE\Sem-7\ADF\LAB>
```



```
▼ LAB  
  > demo_cbv  
  > p3  
  > Practical 1  
  > Practical 2  
  > Practical3  
  > socialMedia  
  > test1  
  ≡ Impt.txt
```

2. Creating App

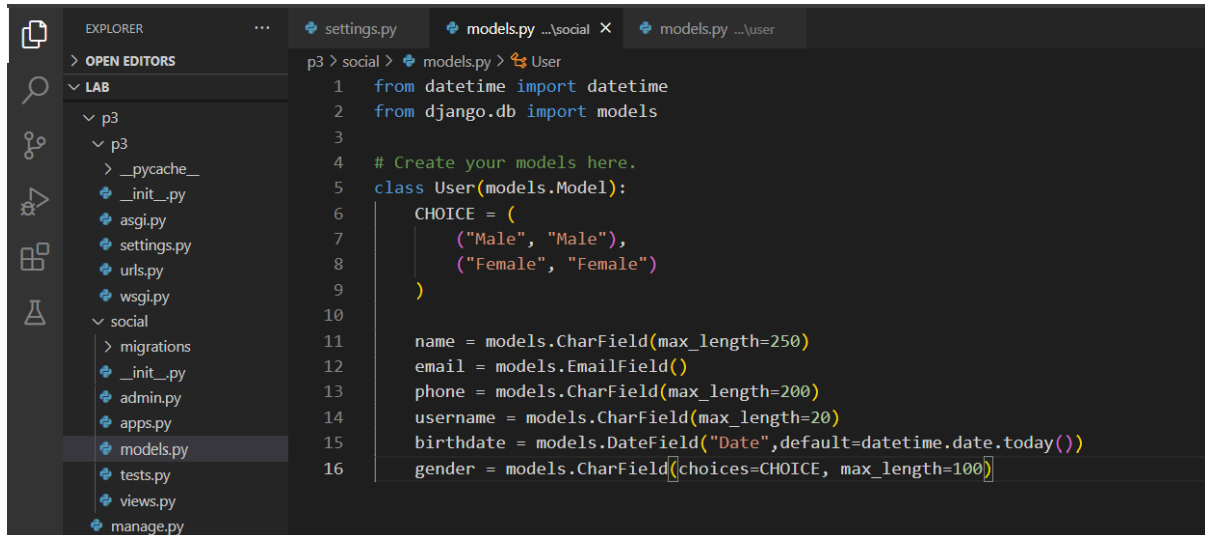
```
(Django) D:\BE\Sem-7\ADF\LAB>cd p3  
(Django) D:\BE\Sem-7\ADF\LAB\p3>python manage.py startapp social
```



3. Registering App with Settings.py

```
INSTALLED_APPS = [  
    'django.contrib.admin',  
    'django.contrib.auth',  
    'django.contrib.contenttypes',  
    'django.contrib.sessions',  
    'django.contrib.messages',  
    'django.contrib.staticfiles',  
    'social'  
]
```

4. Inside Newly Created App/Model.py, specify the Fields



The screenshot shows the Visual Studio Code interface with the Explorer sidebar on the left and the Editor window on the right. The Explorer sidebar shows a project structure with a folder named 'LAB' containing a subfolder 'p3'. Inside 'p3', there is a subfolder 'social' which contains files like 'migrations', '__init__.py', 'admin.py', 'apps.py', 'models.py', 'tests.py', 'views.py', and 'manage.py'. The 'models.py' file is selected and open in the Editor window. The code in 'models.py' defines a Django model class named 'User' that inherits from 'models.Model'. It includes imports for 'datetime' and 'django.db.models'. The model has several fields: 'name' (CharField, max_length=250), 'email' (EmailField), 'phone' (CharField, max_length=200), 'username' (CharField, max_length=20), 'birthdate' (DateField, default=datetime.date.today()), and 'gender' (CharField, choices=CHOICE, max_length=100). The 'CHOICE' is a tuple of ('Male', 'Male') and ('Female', 'Female').

```
p3 > social > models.py > User
1  from datetime import datetime
2  from django.db import models
3
4  # Create your models here.
5  class User(models.Model):
6      CHOICE = (
7          ("Male", "Male"),
8          ("Female", "Female")
9      )
10
11     name = models.CharField(max_length=250)
12     email = models.EmailField()
13     phone = models.CharField(max_length=200)
14     username = models.CharField(max_length=20)
15     birthdate = models.DateField("Date", default=datetime.date.today())
16     gender = models.CharField(choices=CHOICE, max_length=100)
```

5. Run MakeMigration Command

```
HINT: It seems you set a fixed date / time / datetime value as default for this field. This may not be what you want.
django.utils.timezone.now`
Migrations for 'social':
  social\migrations\0001_initial.py
    - Create model User

(Django) D:\BE\Sem-7\ADF\LAB\p3>python manage.py makemigrations
System check identified some issues:

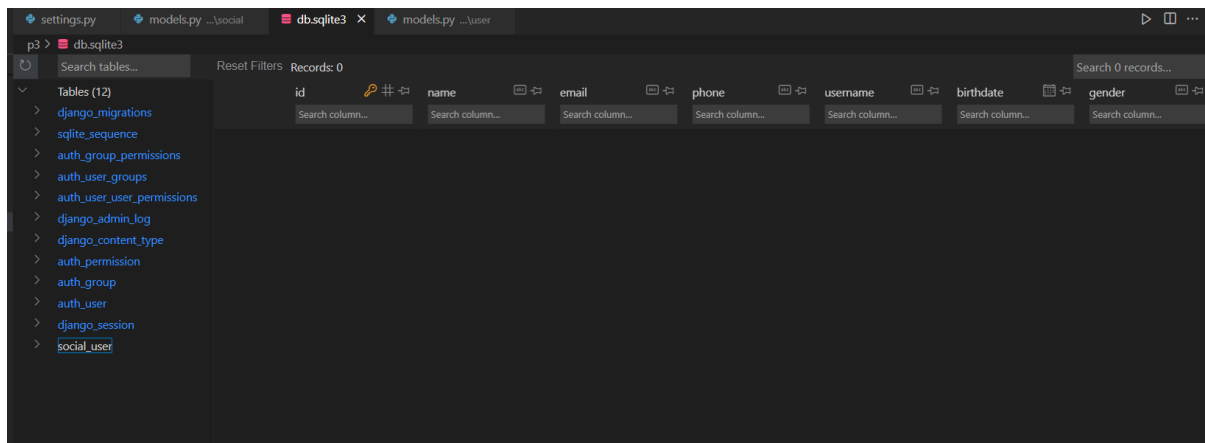
WARNINGS:
social.User.birthdate: (fields.W161) Fixed default value provided.
HINT: It seems you set a fixed date / time / datetime value as default for this field. This may not be what you want.
django.utils.timezone.now`
No changes detected
```

6. Execute migrate

```
(Django) D:\BE\Sem-7\ADF\LAB\p3>python manage.py migrate
System check identified some issues:

WARNINGS:
social.User.birthdate: (fields.W161) Fixed default value provided.
      HINT: It seems you set a fixed date / time / datetime value as default for this field. This may
      be fixed by setting 'default=django.utils.timezone.now'
Operations to perform:
  Apply all migrations: admin, auth, contenttypes, sessions, social
Running migrations:
  Applying contenttypes.0001_initial... OK
  Applying auth.0001_initial... OK
  Applying admin.0001_initial... OK
  Applying admin.0002_logentry_remove_auto_add... OK
  Applying admin.0003_logentry_add_action_flag_choices... OK
  Applying contenttypes.0002_remove_content_type_name... OK
  Applying auth.0002_alter_permission_name_max_length... OK
  Applying auth.0003_alter_user_email_max_length... OK
  Applying auth.0004_alter_user_username_opts... OK
  Applying auth.0005_alter_user_last_login_null... OK
  Applying auth.0006_require_contenttypes_0002... OK
  Applying auth.0007_alter_validators_add_error_messages... OK
  Applying auth.0008_alter_user_username_max_length... OK
  Applying auth.0009_alter_user_last_name_max_length... OK
  Applying auth.0010_alter_group_name_max_length... OK
```

7. SQLite File



8. Register Model with Admin.py

```
p3 > social > admin.py
1  from django.contrib import admin
2
3  # Register your models here.
4  from .models import User
5  admin.site.register(User)
6  |
```

9. Create Super user

```
(Django) D:\BE\Sem-7\ADF\LAB\p3>python manage.py createsuperuser
System check identified some issues:

WARNINGS:
social.User.birthdate: (fields.W161) Fixed default value provided.
    HINT: It seems you set a fixed date / time / datetime value as default for this field.
django.utils.timezone.now`
Username (leave blank to use 'jaimik'):
Email address:
Password:
Password (again):
The password is too similar to the username.
Bypass password validation and create user anyway? [y/N]: N
Password:
Password (again):
Superuser created successfully.
```

10. Start the Server

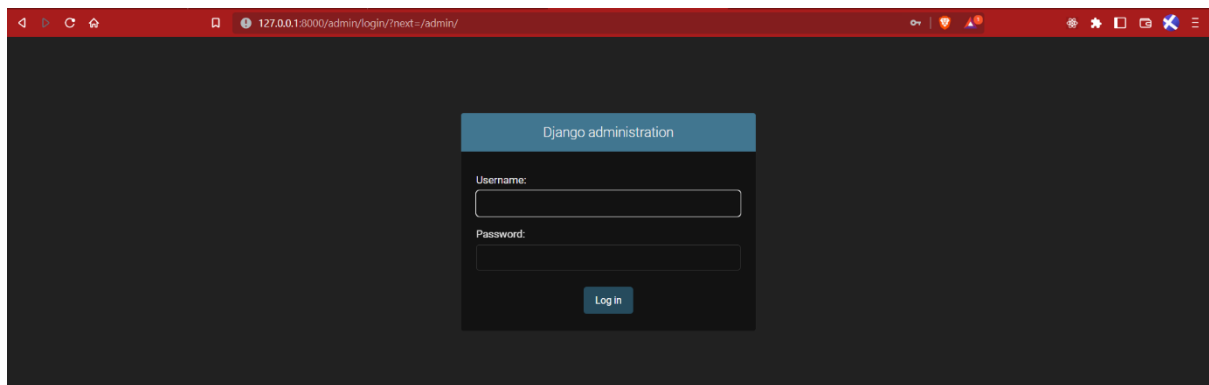
```
(Django) D:\BE\Sem-7\ADF\LAB\p3>python manage.py runserver
Watching for file changes with StatReloader
Performing system checks...

System check identified some issues:

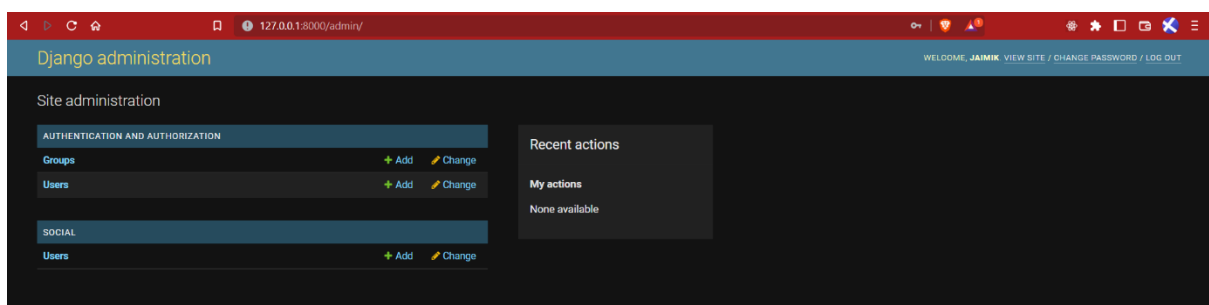
WARNINGS:
social.User.birthdate: (fields.W161) Fixed default value provided.
      HINT: It seems you set a fixed date / time / datetime value as
      .now`

System check identified 1 issue (0 silenced).
October 03, 2022 - 23:11:28
Django version 4.1, using settings 'p3.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.
```

11. Access Admin Interface, enter registered User Id and Password created in step-9



12. Admin Home Page



13. Admin Add User Page

Django administration

WELCOME, JAIMIK VIEW SITE / CHANGE PASSWORD / LOG OUT

Home > Social > Users > Add user

Start typing to filter...

AUTHENTICATION AND AUTHORIZATION

- Groups + Add
- Users + Add

SOCIAL

- Users + Add

Add user

Name: Jaimik Chauhan

Email: jaimikc@gmail.com

Phone: 08401563076

Username: Jaimik@3

Date: 2022-10-03 Today I

Note: You are 5.5 hours ahead of server time.

Gender: ☐ Male ☐ Female

Save and add another Save and continue editing SAVE

14. Inserted Record

settings.py models.py ...social admin.py db.sqlite3 models.py ...user

p3 > db.sqlite3

Search tables...

Reset Filters Records: 1

id	name	email	phone	username	birthdate	gender
1	Jaimik Chauhan	jaimikc@gmail.com	08401563076	Jaimik@3	2022-10-03	Male

Search 1 records...

Tables (12)

- django_migrations
- sqlite_sequence
- auth_group_permissions
- auth_user_groups
- auth_user_user_permissions
- django_admin_log
- django_content_type
- auth_permission
- auth_group
- auth_user
- django_session
- social_user