ADF Practical – 6 Steps

- Submitted by: - Sanket Chheladiya(18bce042)

-Submitted To: - Prof. Dvijesh Bhatt

Q1:-

Demonstrate the concept of AbstractBased User and Custom model for the Social Media Application.

Models.py

```
from django.db import models
from django.contrib.auth.models import AbstractBaseUser, BaseUserManager

class MyAccountManager(BaseUserManager):
    def create_user(self, email, username, password=None):
        if not email:
            raise ValueError('Users must have an email address')
        if not username:
            raise ValueError('Users must have a username')

        user = self.model(
            email=self.normalize_email(email),
            user.set_password(password)
        user.set_password(password)
        user.save(using=self._db)
        return user

def create_superuser(self, email, username, password):
        user = self.create_user(
            email=self.normalize_email(email),
            password=password,
            username=username,
        )
        user.is_admin = True
        user.is_staff = True
        user.is_superuser = True
        user.save(using=self._db)
        return user

class Account(AbstractBaseUser):
        email = models.EmailField(verbose_name="email", max_length=60,
unique=True)
```

```
username= models.CharField(max_length=30, unique=True)
  date_joined= models.DateTimeField(verbose_name='date joined',
auto_now_add=True)
  last_login= models.DateTimeField(verbose_name='last_login',
auto_now=True)
  is_admin= models.BooleanField(default=False)
  is_active= models.BooleanField(default=True)
  is_staff= models.BooleanField(default=False)
  is_superuser= models.BooleanField(default=False)

USERNAME_FIELD = 'email'
  REQUIRED_FIELDS = ['username']
  objects = MyAccountManager()

def __str__(self):
        return self.email
  # For checking permissions. to keep it simple all admin have ALL
permissons
  def has_perm(self, perm, obj=None):
        return self.is_admin
  # Does this user have permission to view this app? (ALWAYS YES FOR SIMPLICITY)
  def has_module_perms(self, app_label):
        return True
```

settings.py

```
AUTH USER MODEL = "CustomUserModel.Account"
```

admin.py

```
from django.contrib import admin
from django.contrib.auth.admin import UserAdmin
from CustomUserModel.models import Account

class AccountAdmin(UserAdmin):
    list_display = ('email' , 'username' , 'date_joined', 'last_login',
    'is_admin', 'is_staff')
    search_fields = ('email' , 'username',)
    readonly_fields = ('date_joined', 'last_login')

    filter_horizontal = ()
    list_filter = ()
    fieldsets = ()

admin.site.register(Account, AccountAdmin)
```

Screenshots:

-Create Super User

Before

```
Username (leave blank to use 'admin'): xyz
Email address: xyx@gmail.com
Password:
Password (again):
The password is too similar to the username.

# This password is too short. It must contain at least 8 characters.

# Bypass password validation and create user anyway? [y/N]: y

# Superuser created successfully.
```

After

```
Email: asd@gmail.com

Username: asd

Password:

Password (again):

The password is too similar to the username.

This password is too short. It must contain at least 8 characters.

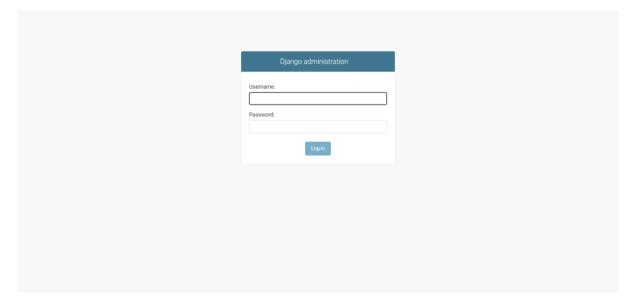
This password is too common.

Bypass password validation and create user anymay? [y/N]: y

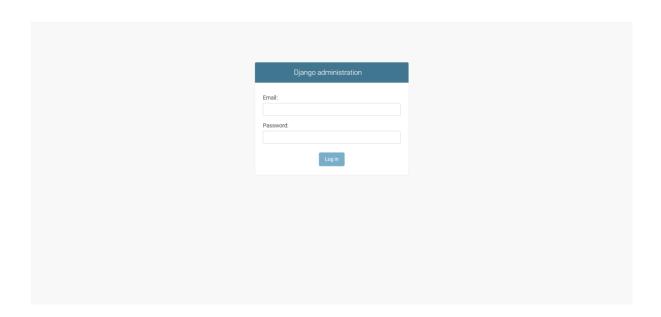
Superuser created successfully.
```

-Admin Login Page

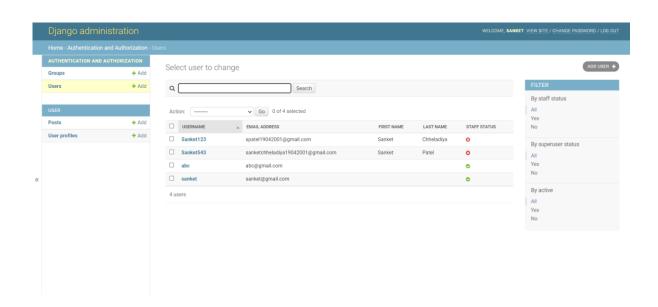
Before

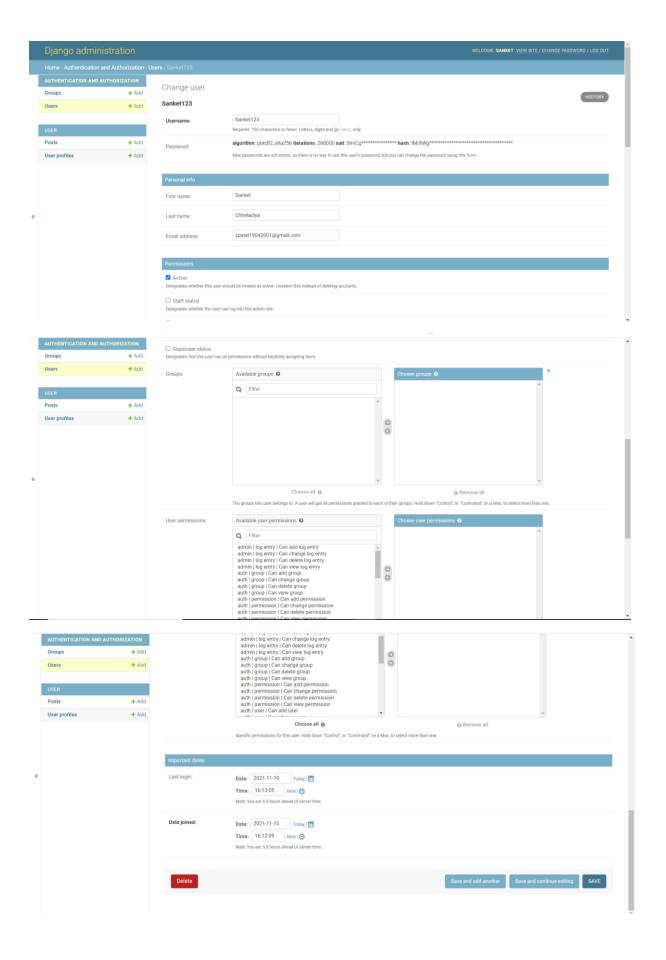


Before

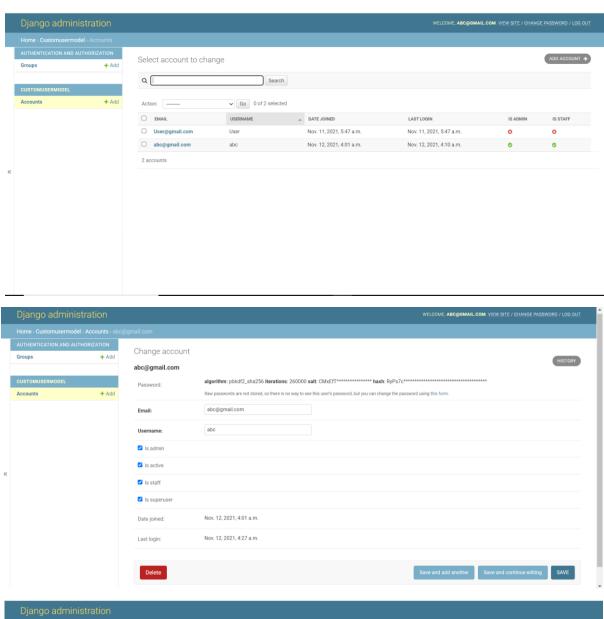


-Admin panel before





-After



Logged out

Thanks for spending some quality time with the Web site today.

