class PostForm(ModelForm):

```
Models.py
```

```
from django.db import models
# model named Post
class Post(models.Model):
        Male = 'M'
        FeMale = 'F'
        GENDER_CHOICES = (
        (Male, 'Male'),
        (FeMale, 'Female'),
        )
        # define a username field with bound max length it can have
        username = models.CharField( max_length = 20, blank = False,
                                                                null = False)
        # This is used to write a post
        text = models.TextField(blank = False, null = False)
        # Values for gender are restricted by giving choices
        gender = models.CharField(max_length = 6, choices = GENDER_CHOICES,
                                                        default = Male)
        time = models.DateTimeField(auto_now_add = True)
Forms.py
from django.forms import ModelForm
from django import forms
from formValidationApp.models import *
# define the class of a form
```

```
class Meta:
        # write the name of models for which the form is made
        model = Post
        # Custom fields
        fields =["username", "gender", "text"]
# this function will be used for the validation
def clean(self):
        # data from the form is fetched using super function
        super(PostForm, self).clean()
        # extract the username and text field from the data
        username = self.cleaned_data.get('username')
        text = self.cleaned_data.get('text')
        # conditions to be met for the username length
        if len(username) < 5:
                self._errors['username'] = self.error_class([
                        'Minimum 5 characters required'])
        if len(text) <10:
                self._errors['text'] = self.error_class([
                        'Post Should Contain a minimum of 10 characters'])
        # return any errors if found
        return self.cleaned_data
```

#### **Urls.py**

```
from django.contrib import admin
 from django.urls import path, include
 from django.conf.urls import url
 from django.shortcuts import HttpResponse
 from . import views
urlpatterns = [
         path(", views.home, name = 'index'),
]
Views.py
from .models import Post
from .forms import PostForm
from .import views
from django.shortcuts import HttpResponse, render, redirect
def home(request):
         # check if the request is post
         if request.method =='POST':
                # Pass the form data to the form class
                details = PostForm(request.POST)
                # In the 'form' class the clean function
                # is defined, if all the data is correct
                # as per the clean function, it returns true
                if details.is_valid():
```

```
# logic into the data if there is such a need
                # before writing to the database
                post = details.save(commit = False)
                # Finally write the changes into database
                post.save()
                # redirect it to some another page indicating data
                # was inserted successfully
                return HttpResponse("data submitted successfully")
       else:
                # Redirect back to the same page if the data
                # was invalid
                return render(request, "home.html", {'form':details})
else:
       # If the request is a GET request then,
       # create an empty form object and
       # render it into the page
       form = PostForm(None)
       return render(request, 'home.html', {'form':form})
```

#### **Home.html**

```
{% load bootstrap3 %}
{% bootstrap_messages %}
<!DOCTYPE html>
<html lang="en">
<head >
       <title>Basic Form</title>
       <meta charset="utf-8"/>
       <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
k rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.2.1/jquery.min.js">
</script>
<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js">
</script>
</head>
<body style="padding-top: 60px;background-color: #f5f7f8 !important;">
       <div class="container">
       <div class="row">
               <div class="col-md-4 col-md-offset-4">
               <h2>Form</h2>
                       <form action="" method="post"><input type='hidden'/>
                       {%csrf token %}
                              {% bootstrap_form form %}
<!-This is the form variable which we are passing from the function
```

## **Output**

