



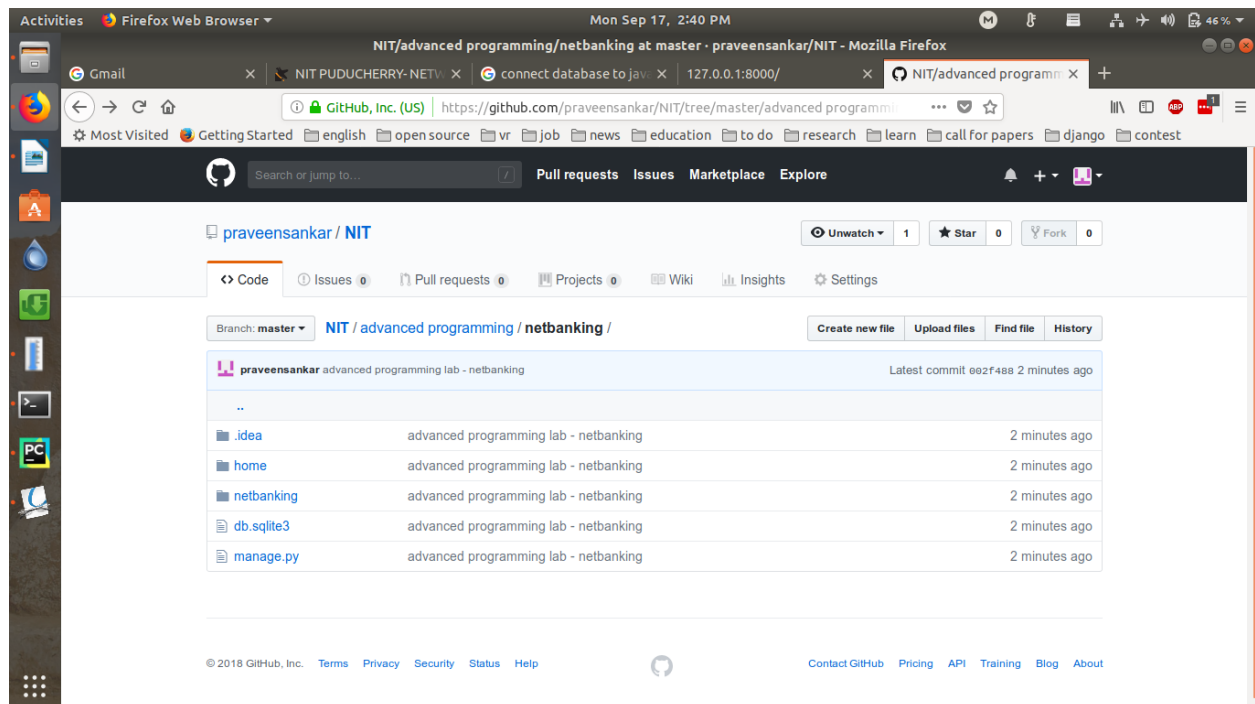
Name : PRAVEENSANKAR M
Register Number :CS18M1008
Course : M.Tech
Semester : I
Subject : Advanced
Programming Laboratory
(CS611)

NetBanking

AIM

To implement basic net banking functionalities using django framework .

PROGRAM



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manage.py

```
#!/usr/bin/env python3
import os
import sys

if __name__ == "__main__":
    os.environ.setdefault("DJANGO_SETTINGS_MODULE", "netbanking.settings")
    try:
        from django.core.management import execute_from_command_line
    except ImportError:
        # The above import may fail for some other reason. Ensure that the
        # issue is really that Django is missing to avoid masking other
        # exceptions on Python 2.
        try:
            import django
        except ImportError:
            raise ImportError(
                "Couldn't import Django. Are you sure it's installed and "
                "available on your PYTHONPATH environment variable? Did you "
                "forget to activate a virtual environment?"
            )
        raise
    execute_from_command_line(sys.argv)
```

models.py

```
from django.db import models
```

```
class User(models.Model):
    def __str__(self):
        return self.username

    username = models.CharField(max_length=20, unique=True)
    password = models.CharField(max_length=20)

class Account(models.Model):
    def __str__(self):
        return str(self.username.username)

    username = models.ForeignKey(User, on_delete=models.CASCADE)
    balance = models.IntegerField(default=0)
```

admin.py

```
from django.contrib import admin

# Register your models here.

from . models import User, Account
admin.site.register(User)
admin.site.register(Account)
```

views.py

```

from django.shortcuts import get_object_or_404, render
from django.urls import reverse
from django.http import HttpResponseRedirect, HttpResponse
from django.template import loader
from .models import User, Account

def index(request):
    template = loader.get_template('home/index.html')
    context = {}
    return HttpResponse(template.render(context, request))

def dashboard(request, username):
    user = User.objects.get(username=username)
    user_account = Account.objects.get(username=user)
    template = loader.get_template('home/dashboard.html')
    context = {
        'account': user_account,
    }
    return HttpResponse(template.render(context, request))

def login(request):
    template = loader.get_template('home/login.html')
    context = {}
    return HttpResponse(template.render(context, request))

def register(request):
    template = loader.get_template('home/register.html')
    context = {}
    return HttpResponse(template.render(context, request))

def postregister(request):
    try:
        u_name = request.POST['username']
        user = User(username=request.POST['username'],
password=request.POST['password'])
    except ():
        # Redisplay the question voting form.
        return render(request, 'home/login.html', {
            'error_message': "You didn't select a choice.",
        })
    else:
        user.save()
        a = Account(username=user, balance=2500)
        a.save()
        # Always return an HttpResponseRedirect after successfully dealing
        # with POST data. This prevents data from being posted twice if a
        # user hits the Back button.
        return HttpResponseRedirect(reverse('home:dashboard', args=(u_name,)))

# ..
def postlogin(request):
    try:
        u_name = request.POST['username']
        user = User.objects.get(username=u_name)
    except ():
        # Redisplay the question voting form.
        return render(request, 'home/login.html', {
            'error_message': "You didn't select a choice.",
        })
    else:

```

```

        # Always return an HttpResponseRedirect after successfully dealing
        # with POST data. This prevents data from being posted twice if a
        # user hits the Back button.
        return HttpResponseRedirect(reverse('home:dashboard', args=(u_name,)))

def transfer(request, username):
    user=User.objects.get(username=username)
    user_account = Account.objects.get(username=user)

    template = loader.get_template('home/transfer.html')
    context = {
        'account':user_account,
    }
    return HttpResponseRedirect(template.render(context, request))

# ..
def posttransfer(request):
    try:
        u_name=request.POST['username']
        amount=int(request.POST['amount'])
        current_username=request.POST['current_user']
        fromUser=User.objects.get(username=current_username)
        toUser=User.objects.get(username=u_name)
        fromAccount=Account.objects.get(username=fromUser)
        toAccount=Account.objects.get(username=toUser)
        fromAccount.balance=fromAccount.balance-amount
        toAccount.balance=toAccount.balance+amount

    except ():
        # Redisplay the question voting form.
        return render(request, 'home/login.html', {
            'error_message': "You didn't select a choice.",
        })
    else:

        # Always return an HttpResponseRedirect after successfully dealing
        # with POST data. This prevents data from being posted twice if a
        # user hits the Back button.
        fromAccount.save()
        toAccount.save()
        return HttpResponseRedirect(reverse('home:dashboard',
args=(current_username,)))

```

dashboard.html

```

<link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/font-awesome/4.7.0/css/font-
awesome.min.css">
<!-- Bootstrap core CSS -->
<link href="https://cdnjs.cloudflare.com/ajax/libs/twitter-bootstrap/4.1.3/
css/bootstrap.min.css" rel="stylesheet">
<!-- Material Design Bootstrap -->
<link href="https://cdnjs.cloudflare.com/ajax/libs/mdbootstrap/4.5.9/css/
mdb.min.css" rel="stylesheet">

<!-- JQuery -->
<script type="text/javascript"
src="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.3.1/jquery.min.js"></
script>
<!-- Bootstrap tooltips -->
<script type="text/javascript"
src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.13.0/umd/popper.min.js
"></script>
<!-- Bootstrap core JavaScript -->

```

```

<script type="text/javascript"
src="https://cdnjs.cloudflare.com/ajax/libs/twitter-bootstrap/4.1.3/js/
bootstrap.min.js"></script>
<!-- MDB core JavaScript -->
<script type="text/javascript"
src="https://cdnjs.cloudflare.com/ajax/libs/mdbootstrap/4.5.9/js/mdb.min.js"><
/script>

<div class="container" style="max-width: 540px;margin-top:200px;">

<span class="d-block p-2 bg-primary text-white">
<p class="text-monospace">welcome {{ account.username }}</p>
<p class="text-monospace">balance : {{account.balance}}</p>
</span><br>
<br>

<a style="margin-left:100px" href="{% url 'home:transfer' account.username
%}">Transfer</a>

<br>
<br>

<a style="margin-left:100px" href="{% url 'home:index' %}">Logout</a>
</div>

```

index.html

```

<!-- Font Awesome -->
<link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/font-awesome/4.7.0/css/font-
awesome.min.css"
xmlns:https="http://www.w3.org/1999/xhtml"
xmlns:https="http://www.w3.org/1999/xhtml"
xmlns:https="http://www.w3.org/1999/xhtml"
xmlns:https="http://www.w3.org/1999/xhtml"
xmlns:https="http://www.w3.org/1999/xhtml">
<!-- Bootstrap core CSS -->
<link href="https://cdnjs.cloudflare.com/ajax/libs/twitter-bootstrap/4.1.3/
css/bootstrap.min.css" rel="stylesheet">
<!-- Material Design Bootstrap -->
<link href="https://cdnjs.cloudflare.com/ajax/libs/mdbootstrap/4.5.9/css/
mdb.min.css" rel="stylesheet">

<!-- JQuery -->
<script type="text/javascript"
src="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.3.1/jquery.min.js"></
script>
<!-- Bootstrap tooltips -->
<script type="text/javascript"
src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.13.0/umd/popper.min.js
"></script>
<!-- Bootstrap core JavaScript -->
<script type="text/javascript"
src="https://cdnjs.cloudflare.com/ajax/libs/twitter-bootstrap/4.1.3/js/
bootstrap.min.js"></script>
<!-- MDB core JavaScript -->
<script type="text/javascript"
src="https://cdnjs.cloudflare.com/ajax/libs/mdbootstrap/4.5.9/js/mdb.min.js"><
/script>

<div class="container" style="max-width: 540px;margin-top:200px;margin-
left:400px;background-color:#eee;">
<!-- Content here -->

<h2>

```

```

        <a href="/home/login">login </a><br>
    </h2>
    <h2><a href="/home/register"> register </a>
</h2>
</div>

```

transfer.html

```

<link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/font-awesome/4.7.0/css/font-
awesome.min.css">
<!-- Bootstrap core CSS -->
<link href="https://cdnjs.cloudflare.com/ajax/libs/twitter-bootstrap/4.1.3/
css/bootstrap.min.css" rel="stylesheet">
<!-- Material Design Bootstrap -->
<link href="https://cdnjs.cloudflare.com/ajax/libs/mdbootstrap/4.5.9/css/
mdb.min.css" rel="stylesheet">

<!-- JQuery -->
<script type="text/javascript"
src="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.3.1/jquery.min.js"></
script>
<!-- Bootstrap tooltips -->
<script type="text/javascript"
src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.13.0/umd/popper.min.js
"></script>
<!-- Bootstrap core JavaScript -->
<script type="text/javascript"
src="https://cdnjs.cloudflare.com/ajax/libs/twitter-bootstrap/4.1.3/js/
bootstrap.min.js"></script>
<!-- MDB core JavaScript -->
<script type="text/javascript"
src="https://cdnjs.cloudflare.com/ajax/libs/mdbootstrap/4.5.9/js/mdb.min.js"><
/script>

<div style="">
    <div class="container" style="max-width: 540px;margin-top:200px;">

        <form class="form-signin" lpchecked="1" action="{% url
'home:posttransfer' %}" method="post">
            {% csrf token %}
            <h2 style="text-align:center;" class="form-signin-
heading"><b>weclome {{ account.username }}<br></b></h2>
            <label for="inputEmail" class="sr-only">Username</label>
            <input type="hidden" name="current_user" value={{account.username}} /
><br>
            <input id="inputEmail" class="form-control" name="username"
placeholder="username" required="" autofocus="" style="background-image:
url(&quot;data:image/png;base64,iVBORw0KGgoAAAANSUgAAABAAAAASCAYAAABS015qAA
AAAXNSR0IArs4c6QAAAPhJREFUOBH1U70KgZAQPLMhEvoQTg60Po0JT+JW0nRqkUKHgqWP40QbOPk
Tk60TkVULNSLvc62oJmbIdzd95NcuGjX2/3YVI/
Ts+t0WLE2ut5xsQ00+90F6UxFjAI8qNcEGONia08e6MN0NYwCS7EQaizLmtGUDEzTBNd1fxsYhJEbn
HPQNG3KKTYV34F8ec/zwHEci0MYyrIE3/
ehKAqIoggo9inGXKmFXwbyBkmsQJgmUNE15IRhCG3byphitm1/
eUzDM4qR0TTNjEixGdAnSi3keS5vSk2UDKqggizLqB4YzvassiKhGtZ/
jDMtL0nHz7TE+yf8BaDZXA509yeBAAAAAE1fIkSuQmCC&quot;;); background-repeat: no-
repeat; background-attachment: scroll; background-size: 16px 18px; background-
position: 98% 50%; cursor: auto;" autocomplete="off" type="text">
            <br>
            <label class="sr-only">amount</label>

```

```

        <input name="amount" class="form-control" placeholder="amount"
required="" style="background-image:
url("data:image/png;base64,iVBORw0KGgoAAAANSUheUgAAABAAAAASCAYAAABS015qAA
AAAXNSR0IARS4c6QAAAPhJREFUOBH1U70KgZAQPlMhEvoQTg60Po0JT+JW0nRqkUKHgqWP40Qb0P0k
Tk60TkVULNSLvc62oJmbIdzd95NcuGjX2/3YVI/
Ts+t0WLE2ut5xsQ00+90F6UxFjAI8gNcEGONia08e6MN0NYwCS7EQaizLmtGUDEzTBnd1fxsYhjEBn
HPQNG3KKTYV34F8ec/zwHEci0MYyriE3/
ehKAqIoggo9inGxKmfXwbyBkmsQJqmUNE15IRhCG3byphitm1/
eUzDM4qR0TTNjEixGdAnS13keS5vSk2UDKgggizLgB4YzvassikhGtZ/
jDMtL0nHz7TE+yf8BaDZXA509yeBAAAAAE1FIkSuQmCC"); background-repeat: no-
repeat; background-attachment: scroll; background-size: 16px 18px; background-
position: 98% 50%; cursor: auto;" autocomplete="off" type="text">
<br>
        <button class="btn btn-lg btn-primary btn-block"
type="submit">transfer</button>
    </form>

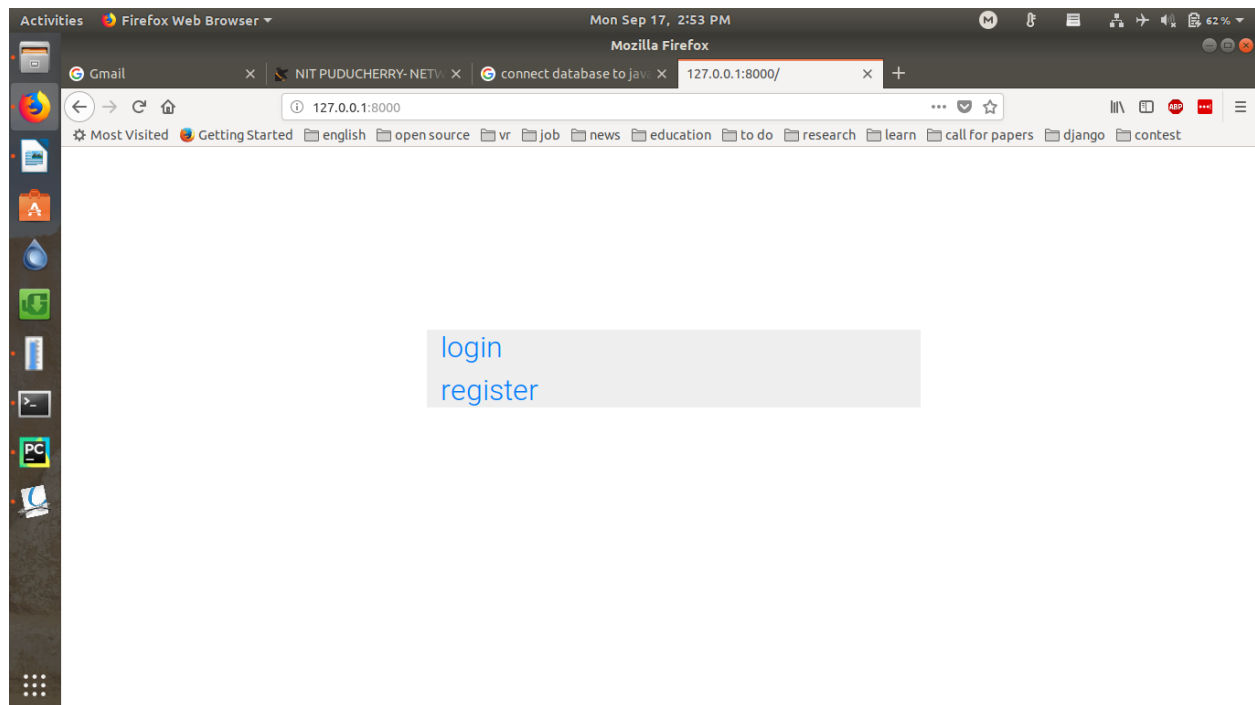
</div> <!-- /container -->

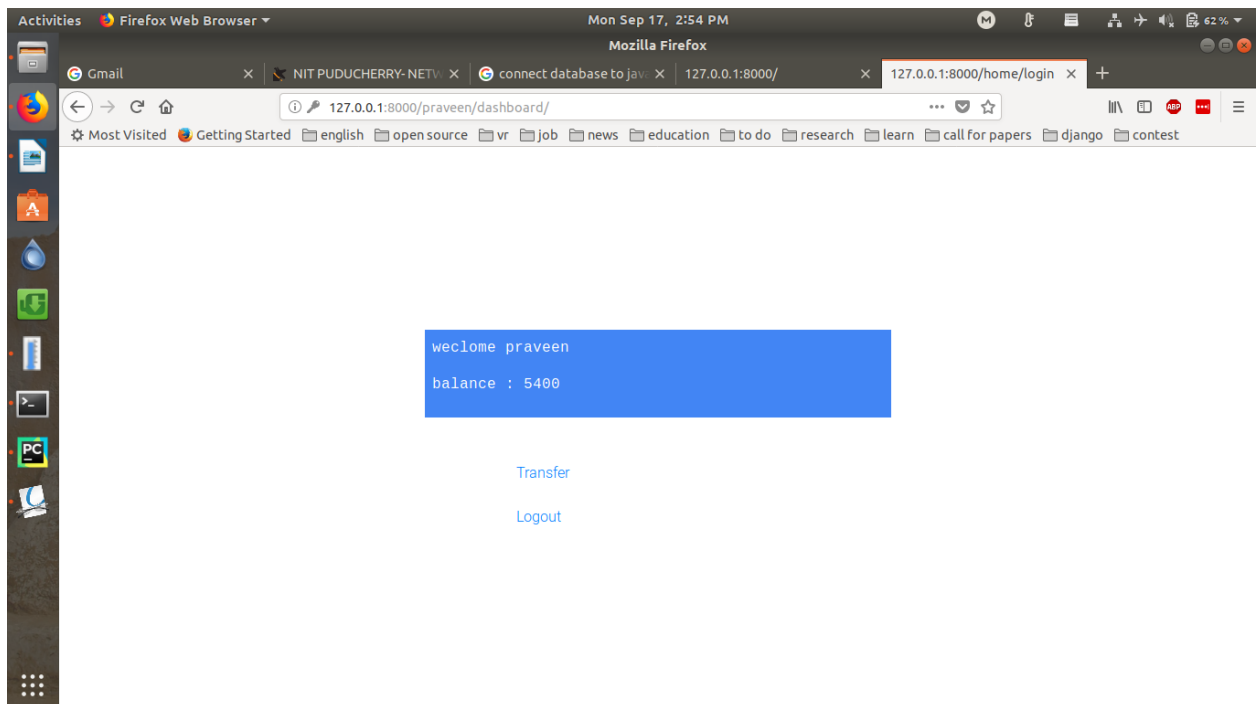
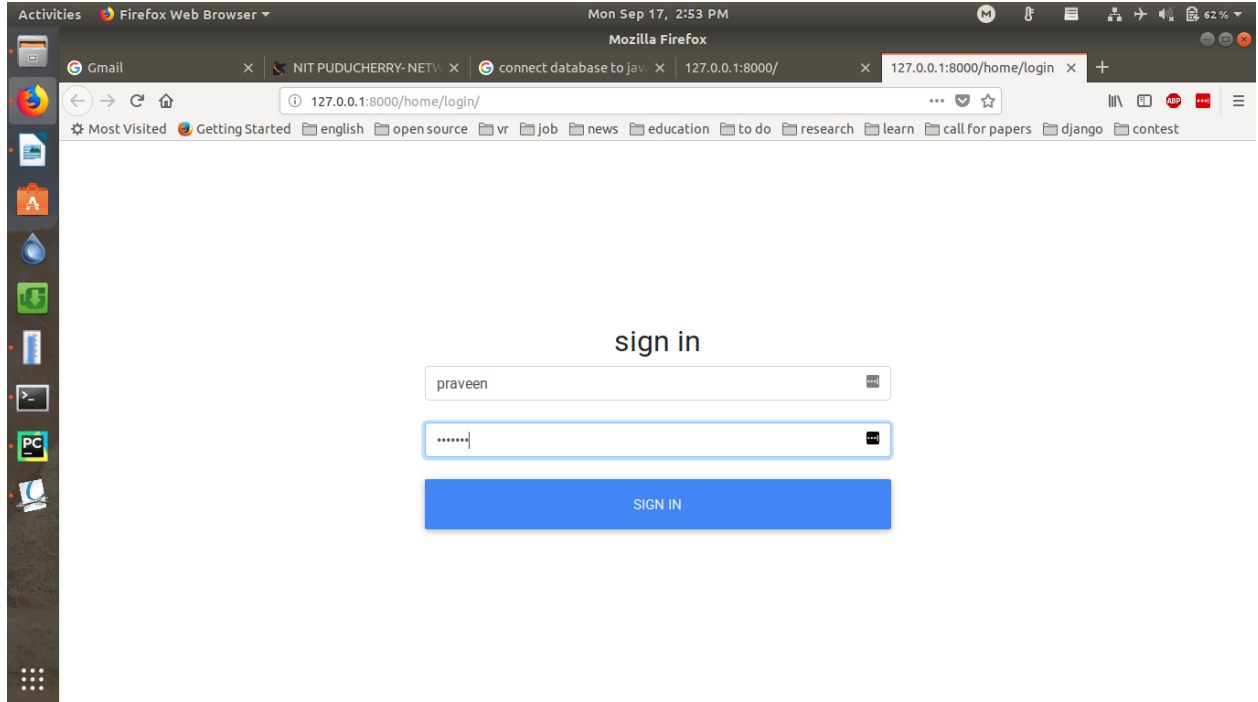
<!--<link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/
4.1.3/css/bootstrap.min.css"
integrity="sha384-MCw98/SFnGE8fJT3GXwEOngsV7Zt27NXFoaoApmYm81iuXoPkFOJwJ8ERdkn
LPM0" crossorigin="anonymous">-->
<!--<script
src="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/js/bootstrap.min.js"
integrity="sha384-ChfqqxuZUCnJSK3+MXmPNIyE6ZbWh2IMqE241rYiqJxyMiZ6OW/
JmZQ55stwEULTy" crossorigin="anonymous">-->

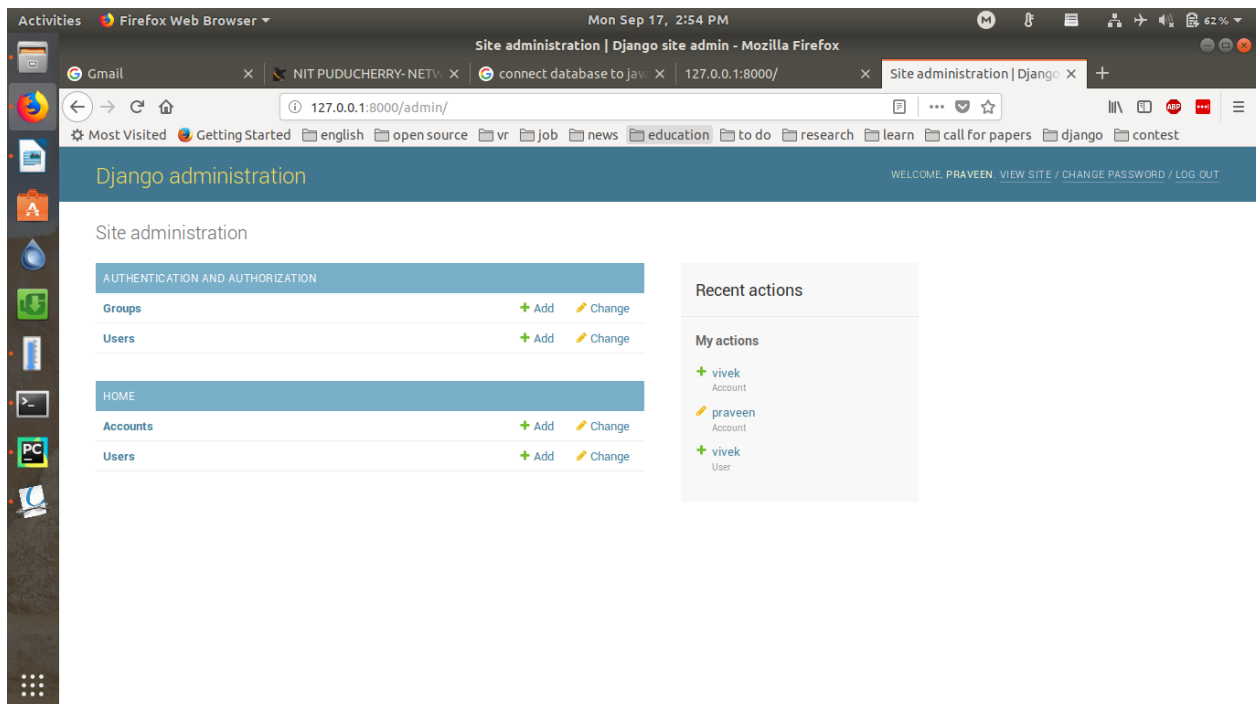
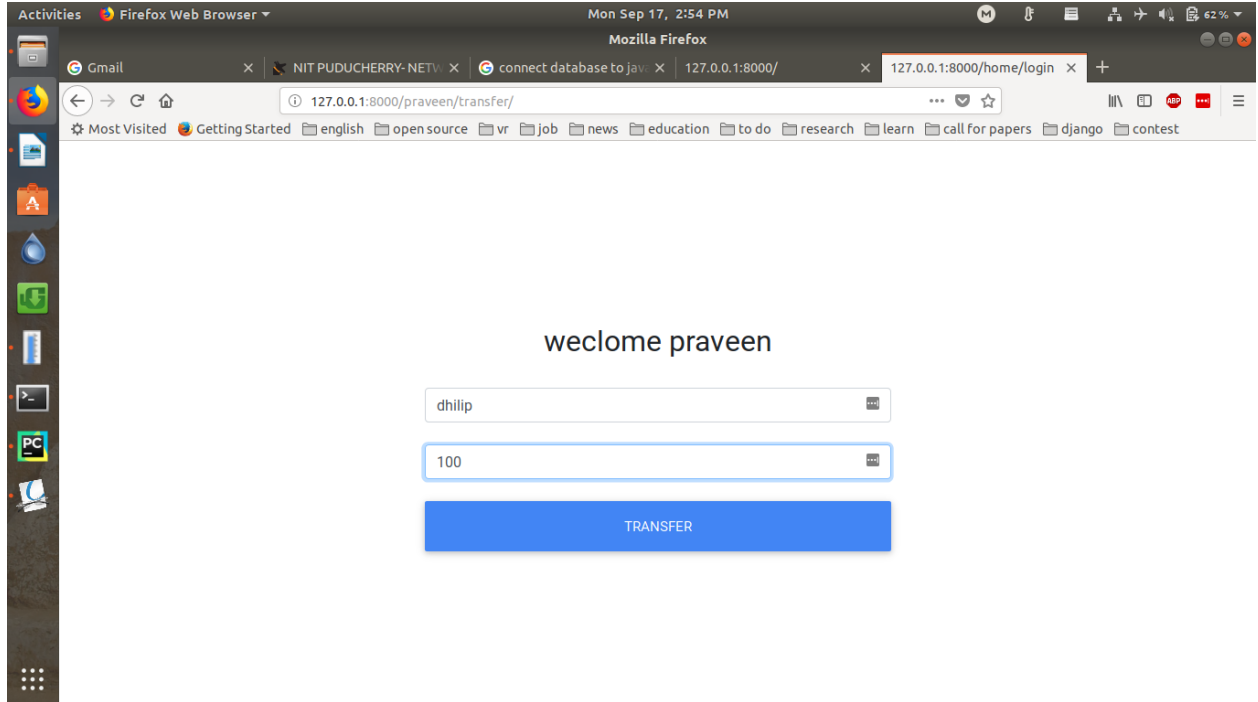
</div>

```

OUTPUT







source code :

[https://github.com/praveensankar/NIT/tree/master/
advanced_programming/netbanking](https://github.com/praveensankar/NIT/tree/master/advanced_programming/netbanking)