Лабораторная работа №6 по дисциплине "Разработка интернет приложений"

Работа с СУБД

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	" "	2017 г

```
Файл Urls.py
```

```
urlpatterns = [
           url(r'^function view/', function_view),
            url(r'^class_b_view/', ClassBased.as_view()),
 23
            url(r'^admin/', admin.site.urls),
 24
            url(r'^$', main page, name='main'),
          url(r'^order/(?P<id>\d+)', OrderView.as_view(), name='order url'),
         url(r'^tests/', TestView.as_view(), name='tests'),
            url(r'^users/', UserView.as_view(), name='users'),
 28
29
       \ominus1
Файл views.py
      class TestView(ListView):
           model = Test
61
            context_object_name = 'tests'
62
            def get_queryset(self):
                q = super().get_queryset()
                return q.none()
 66
       class UserView(View):
67
            def get(self, request):
                users = User.objects.all()
70
                return render (request, 'users.html')
71
```

Models.py

```
# Create your models here.
 2
 3
       from django.db import models
 4
 5
      class User(models.Model):
 6
 7
           first name = models.CharField(max length=30)
           last name = models.CharField(max length=30)
 8
 9
           age = models.IntegerField()
           email = models.EmailField()
10
11
12
           def str (self):
               return self.first name
13
14
15
      class Test (models.Model):
16
           first name = models.CharField(max length=30)
17
18
           last name = models.CharField(max length=30)
19
20 0
           def str (self):
                return self.first name
21
22
```

templates/test_list.html

```
{% extends 'base.html' %}
 3
        {% block title %}Студенты{% endblock %}
 4
       {% block header %}<h2 class="text-left">Список студентов делавших эту лабу:</h2>{% endblock %}
 5
 6
       {% block body %}
 8
           {% for test in tests %}
 9
                <h4>{{ test.first_name }}</h4>
                {{ test.last_name }}
10
                <hr>>
            {% endfor %}
12
       {% endblock %}
13
```

Реализация скриптов для работы с БД

```
import MySQLdb
       class Connection:
          def __init__(self, user, password, db, host='localhost'):
              self.user = user
               self.host = host
               self.password = password
               self.db = db
              self._connection = None
11
12
           @property
13
           def connection(self):
14
           return self. connection
15
16
          def enter (self):
              self.connect()
18
19
           def __exit__(self, exc_type, exc_val, exc_tb):
20
               self.disconnect()
21
           def connect(self):
23
              if not self._connection:
                   self._connection = MySQLdb.connect(
24
25
                      host = self.host,
                       user = self.user,
26
                      passwd = self.password,
27
28
                       db = self.db,
                       use unicode=True.
29
30
                       charset='utf8'
31
32
33
           def disconnect(self):
              if self._connection:
35
                   self._connection.close()
36
37
38
      class Test:
39
          def __init__(self, db_connection, first_name, last_name):
              self.db_connection = db_connection.connection
40
               self.name = first_name
41
42
              self.description = last_name
43
44
           def save(self):
45
              c = self.db_connection.cursor()
46
               c.execute("INSERT INTO lab5_app_test (first_name, last_name) VALUES (%s, %s);", (self.name, self.description))
47
               self.db_connection.commit()
48
               c.close()
49
50
51
      class Tests:
           def __init__(self, db_connection):
52
              self.db_connection = db_connection.connection
53
```

```
def select_all(self):
56
             c = self.db_connection.cursor()
              c.execute("SELECT * FROM lab5_app_test;")
              output = c.fetchall()
58
59
              c.close()
             return output
60
61
62
           def delete_all(self):
63
              c = self.db_connection.cursor()
64
               c.execute("TRUNCATE table lab5_app_test;")
65
               self.db_connection.commit()
66
67
68
69
       con = Connection('root', '1111', 'mydb')
70
      with con:
71
          test = Test(con, 'Денис', 'Чечелев')
72
           test.save()
73
          tests = Tests(con)#
74
          select_tests = tests.select_all()
75
          print(select_tests)
76
         print('DELETE? 1/0')
           input1 = input()
          if (input1 == '1'):
78
79
              tests.delete_all()
80
           print('----
81
           select_tests = tests.select_all()
```

Результат работы:

