```
def setUp(self):
         User.objects.create(username="It's me", first_name="best", last_name="jun")
         def test_seat_avaliable(self):
         course = Date.objects.first()
         self.assertTrue(course.is_seat_avaliable())
    def test_seat_not_avaliable(self):
         user1 = User.objects.first()
         student1 = Student.objects.create(name=user1)
         course = Date.objects.first()
         student1.course enroll.add(course)
         self.assertFalse(course.is_seat_avaliable())
       User.objects.create(username="It's me", first_name="best", last_name="jun")

course = Course.objects.create(subject="Thai", subject_id="TH101", credit=3)

Date.objects.create(subject_id=course, section="100001", start_time="9:30", end_time="12:30",

day="Monday", room="1024", year="2", semester="1", seat=1, status=True)
    def test_index_view_status_code(self):
        response = c.get(reverse('Index'))
self.assertEqual(response.status_code, 200)
    def test_index_view_context(self):
         response = c.get(reverse('Index'))
self.assertEqual(response.context['Courses'].count(), 1)
    def test_valid_course_page(self):
         response = c.get(reverse('Course', args=(co
self.assertEqual(response.status_code, 200)
                                             e', args=(course.id,)))
def test_invalid_course_page(self):
     max_id = Course.objects.all().aggregate(Max("id"))['id__max']
    response = c.get(f'Course/{max_id+1}')
    self.assertEqual(response.status_code, 404)
```

```
class CourseViewTest(TestCase):
    def setUp(self):
         User.objects.create(username="It's me", first_name="best", last_name="jun", password="Me123")

course = Course.objects.create(subject="Thai", subject_id="TH101", credit=3)

Date.objects.create(subject_id=course, section="100001", start_time="9:30", end_time="12:30",

day="Monday", room="1024", year="2", semester="1", seat=1, status=True)
     def test_enroll(self):
    student = Student.objects.first()
          course seat = 1
          c.post(reverse('enroll'), {'student': student.name, 'section': course.section, 'subject_id': course.subject_id.subject_id))
          self.assertEqual(Date.objects.get(subject id=course.subject id. section=course.section).seat. 0)
    # test del enroll method
def test_del_enroll(self):
         student = Student.objects.first()
          course.seat = 6
     c.post(reverse('del_enroll'), {'student': student.name, 'section': course.section, 'subject_id': course.subject_id.subject_id})
     self.assertEqual(Date.objects.get(subject id=course.subject id, section=course.section).seat, 1)
    student = Student.objects.first()
     student.course_enroll.add(Date.objects.first())
    self.client.force_login(student.name)
response = self.client.post(reverse('enrolled'), {'student': student.name})
self.assertEqual(response.context['Enrolled'].count(), 1)
def test_search(self):
     student = Student.objects.first()
     self.client.force_login(student.name)
searched = self.client.post(reverse('register'), {'student': student.name, 'searched': 'TH'}).context['searched']
     self.assertEqual(searched, 'TM')
searched = self.client.post(reverse('register'), {'student': student.name, 'searched': 'SM'}).context['searched']
     self.assertEqual(searched, 'SM')
```

```
class TestUser(TestCase):
    def setUp(self):
        User.objects.create(username="It's me", first_name="best", last_name="jun", password="Me123")

def test_index(self):
    self.client = Client()
    self.client.login(username='It\'s me', password='Me123')
    response = self.client.get(reverse('index'))
    self.assertEqual(response.status_code, 302)

def test_login(self):
    self.client = Client()
    response = self.client.post(reverse('login'), {'username': 'It\'s me', 'password': 'Me123'})
    self.assertEqual(response.status_code, 200)

def test_logout(self):
    self.client = Client()
    self.client = Client()
    self.client = Client()
    self.client.login(username='It\'s me', password='Me123')
    response = self.client.get(reverse('logout'))
    self.assertEqual(response.status_code, 200)
```

อธิบาย test

- setUp การสร้าง data ไว้สำหรับ test
- test seat avaliable เช็คว่ามีที่เรียนว่างหรือไม่
- test seat unavaliable เช็คว่าที่เรียนเต็มหรือไม่
- test index view status code เช็คว่าหน้า index ทำงานตามปกติไหมถูก redirect ถูกหรือไม่
- test index view context เช็คว่าจำนวน data course ใน query มีจำนวนถูกหรือไม่
- test valid course page เช็คว่ามีหน้า web page ของ course มีหรือไม่
- test invalid course page เช็คว่า course ถ้าไม่มี web page จะ response 404
- test enroll เช็คว่าสามารถลงเรียนในวิชานั้นได้หรือไม่
- test del enroll เช็คว่าสามารถถอนวิชาเรียนได้หรือไม่
- test enroll view context จะส่งจำนวนคอร์สเรียนที่ลงเรียนกลับมา
- test search เช็คว่าสามารถค้นหาคอร์สเรียนได้หรือไม่
- text index เช็คว่าหน้า index ของ user ถูกหรือไม่
- test login เช็คว่าสามารถ login ได้หรือไม่
- test logout เช็คว่าสามารถ logout ได้หรือไม่

test result

<u>Coverage report</u>