

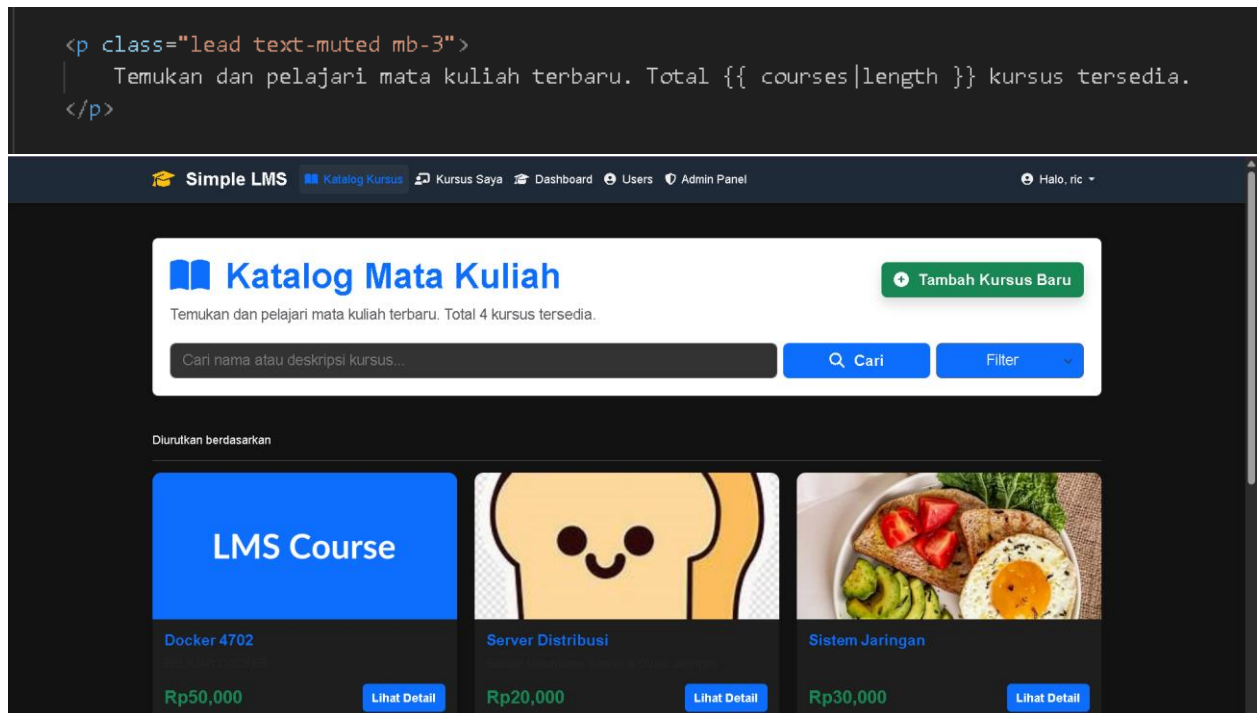
Mata Kuliah : Pemrograman Sisi Server – TI – S1

Pertemuan : 7

NIM : A11.2023.14922

Nama : Richard Christoper Subianto

- Statistik Semua Course
  1. Jumlah Semua Course



## 2. Filter Course

```
<div class="col-md-2 d-grid">
    <select name="sort" class="form-select form-select-lg text-center bg-primary">
        <option value="">Filter</option>
        <option value="harga_asc" {% if sort == 'harga_asc' %} selected{% endif %}>Harga Termurah</option> <!-- harga termurah -->
        <option value="harga_desc" {% if sort == 'harga_desc' %} selected{% endif %}>Harga Termahal</option> <!-- harga termahal -->
        <option value="member_desc" {% if sort == 'member_desc' %} selected{% endif %}>Terpopuler</option> <!-- member tersedikit -->
        <option value="member_asc" {% if sort == 'member_asc' %} selected{% endif %}>Kurang Diminati</option> <!-- member terbanyak -->
    </select>
</div>
```

Code :

```

class CourseListView(ListView):
    model = Course
    template_name = 'course/course_list.html'
    context_object_name = 'courses'
    ordering = ['-created_at']

    def get_queryset(self):
        query = self.request.GET.get('q')
        sort_option = self.request.GET.get('sort')
        queryset = super().get_queryset()

        queryset = queryset.annotate(
            member_count=Count('coursemember', filter=Q(coursemember__roles='std'))
        )

        if query:
            queryset = queryset.filter(
                Q(name__icontains=query) | Q(description__icontains=query)
            )

        if sort_option == 'harga_asc':
            queryset = queryset.order_by('price')
        elif sort_option == 'harga_desc':
            queryset = queryset.order_by('-price')
        elif sort_option == 'member_asc':
            queryset = queryset.order_by('member_count')
        elif sort_option == 'member_desc':
            queryset = queryset.order_by('-member_count')

        return queryset

    def get_context_data(self, **kwargs):
        context = super().get_context_data(**kwargs)

        sort_option = self.request.GET.get('sort')
        query = self.request.GET.get('q')

        context['query'] = query
        context['sort'] = sort_option

        context['sort_message'] = None
        if sort_option == 'harga_asc':
            context['sort_message'] = 'Harga Termurah'
        elif sort_option == 'harga_desc':
            context['sort_message'] = 'Harga Termahal'
        elif sort_option == 'member_asc':
            context['sort_message'] = 'Jumlah Member Paling Sedikit'
        elif sort_option == 'member_desc':
            context['sort_message'] = 'Jumlah Member Paling Banyak'

        return context

```

# Katalog Mata Kuliah

+ Tambah Kursus Baru

Temukan dan pelajari mata kuliah terbaru. Total 4 kursus tersedia.

Cari nama atau deskripsi kursus...

Q Cari

Filter

- Filter
- Harga Termurah
- Harga Termahal
- Terpopuler
- Kurang Diminati

Diurutkan berdasarkan



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Q Cari

Harga Termurah

Diurutkan berdasarkan



Server Distribusi

Rp20.000

Lihat Detail

Q Sisa

Report

Sistem Jaringan

Rp30.000

Lihat Detail

Q Sisa

Report

PSS

Rp30.000

Lihat Detail

Q Sisa

Report

## LMS Course

Docker 4702

Rp50.000

Lihat Detail

Q Sisa

Report

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Server Distribusi

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Lihat Detail

Q Sisa

Report

- Detail Statistik Course

```
# TABLE COURSE ()
class Course(models.Model):
    teacher = models.ForeignKey(User, on_delete=models.RESTRICT, verbose_name="pengajar")

    name = models.CharField("nama matkul", max_length=100)
    description = models.TextField("deskripsi", default='')
    price = models.IntegerField("harga", default=10000)
    image = models.ImageField("gambar", upload_to='course_images/', null=True, blank=True)

    created_at = models.DateTimeField(auto_now_add=True)
    updated_at = models.DateTimeField(auto_now=True)

    class Meta:
        verbose_name = "Mata Kuliah"
        verbose_name_plural = "Mata Kuliah"

    def student_count(self):
        return CourseMember.objects.filter(course_id=self, roles='std').count()
    def content_count(self):
        return self.contents.count()
    def comment_count(self):
        return Comment.objects.filter(content_id__course_id=self).count()
    def content_count(self):
        return CourseContent.objects.filter(course_id=self).count()

    def __str__(self) -> str:
        return f"{self.name} : Rp{self.price:,}"
```

Code:

```
{% extends "base.html" %}
```

```
{% load humanize %}
```

```
{% block title %}{{ course.name }}{% endblock %}
```

```
{% block content %}
```

```
<div class="row">
```

```
    <div class="col-lg-8">
```

```
        <div class="card shadow-lg mb-4 border-0">
```

```
            <div class="card-body p-4">
```

```
                <h1 class="card-title text-primary display-4">{{ course.name }}</h1>
```

```
                <p class="lead text-white">
```

```
                    Diajarkan oleh: <span class="fw-semibold text-light">{{ course.teacher.username
```

```
}}</span>
```

```
                </p>
```

```
            <h2 class="mt-4 mb-3 fs-5 text-uppercase text-secondary">Tentang Kursus</h2>
```

```
            <div class="p-3 bg-light rounded mb-4 text-muted">
```

```
                <p>{{ course.description|linebreaks }}</p>
```

```
            </div>
```

```
<div class="d-flex align-items-center mb-4 p-3 bg-info bg-opacity-10 border border-info rounded">
```

```
<i class="fas fa-book-open fa-2x text-info me-3"></i>
```

```
<div>
```

```
<h4 class="mb-0 text-info">Total Materi:</h4>
```

```
<p class="mb-0 fs-4 fw-bold text-dark">
```

```
<span class="badge bg-info ms-2">Konten: {{ course.content_count }}</span>
```

```
</p>
```

```
</div>
```

```
</div>
```

```
<div class="d-flex justify-content-between align-items-center mt-5 p-3 border-top">
```

```
<h2 class="text-success fw-bold mb-0 display-6">
```

```
Rp{{ course.price|intcomma }}
```

```
</h2>
```

```
{% if user.is_authenticated %}
```

```
{% if is_joined %}
```

```
<a href="{% url 'course_content_list' course.pk %}" class="btn btn-success btn-lg">
```

```
<i class="fas fa-check-circle"></i> Akses Kursus
```

```
</a>
```

```
{% else %}
```

```
<a href="{% url 'join_course' course.pk %}" class="btn btn-primary btn-lg">
```

```
<i class="fas fa-plus-circle"></i> Daftar Kursus Sekarang
```

```
</a>
```

```
{% endif %}
```

```
{% else %}
```

```
<a href="{% url 'login' %}?next={% url 'course_detail' course.pk %}" class="btn btn-warning btn-lg">
```

```
<i class="fas fa-sign-in-alt"></i> Login untuk Mendaftar
```

```
</a>
```

```
{% endif %}
```

```
</div>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
<div class="col-lg-4">
```

```
<div class="card shadow-sm sticky-top" style="top: 20px;">
```

```
{% if course.image %}
```

```

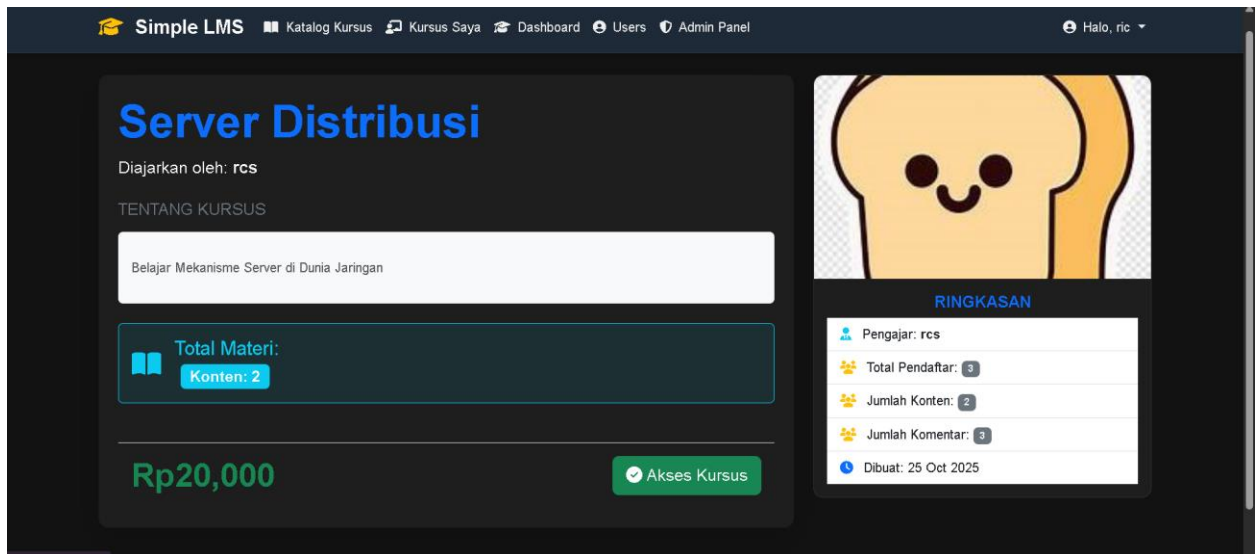
```

```

{% else %}
<div class="p-5 text-center bg-secondary-subtle fs-4 fw-semibold text-muted">Gambar
Tidak Ada</div>
{% endif %}
<div class="card-body">
  <h5 class="card-title text-center text-secondary fw-bold">RINGKASAN</h5>
  <ul class="list-group list-group-flush">
    <li class="list-group-item">
      <i class="fas fa-user-tie me-2 text-info"></i> Pengajar: <span
        class="fw-semibold">{{course.teacher.username }}</span>
    </li>
    <li class="list-group-item">
      <i class="fas fa-users me-2 text-warning"></i> Total Pendaftar: <span
        class="badge bg-secondary">{{ course.coursemember_set.count }}</span>
    </li>
    <li class="list-group-item">
      <i class="fas fa-users me-2 text-warning"></i> Jumlah Konten: <span
        class="badge bg-secondary">{{ course.content_count }}</span>
    </li>
    <li class="list-group-item">
      <i class="fas fa-users me-2 text-warning"></i> Jumlah Komentar: <span
        class="badge bg-secondary">{{ course.comment_count }}</span>
    </li>
    <li class="list-group-item">
      <i class="fas fa-clock me-2 text-primary"></i> Dibuat: {{ course.created_at|date:"d
M Y" }}
    </li>
  </ul>
</div>
</div>
</div>
</div>
{% endblock content %}

```

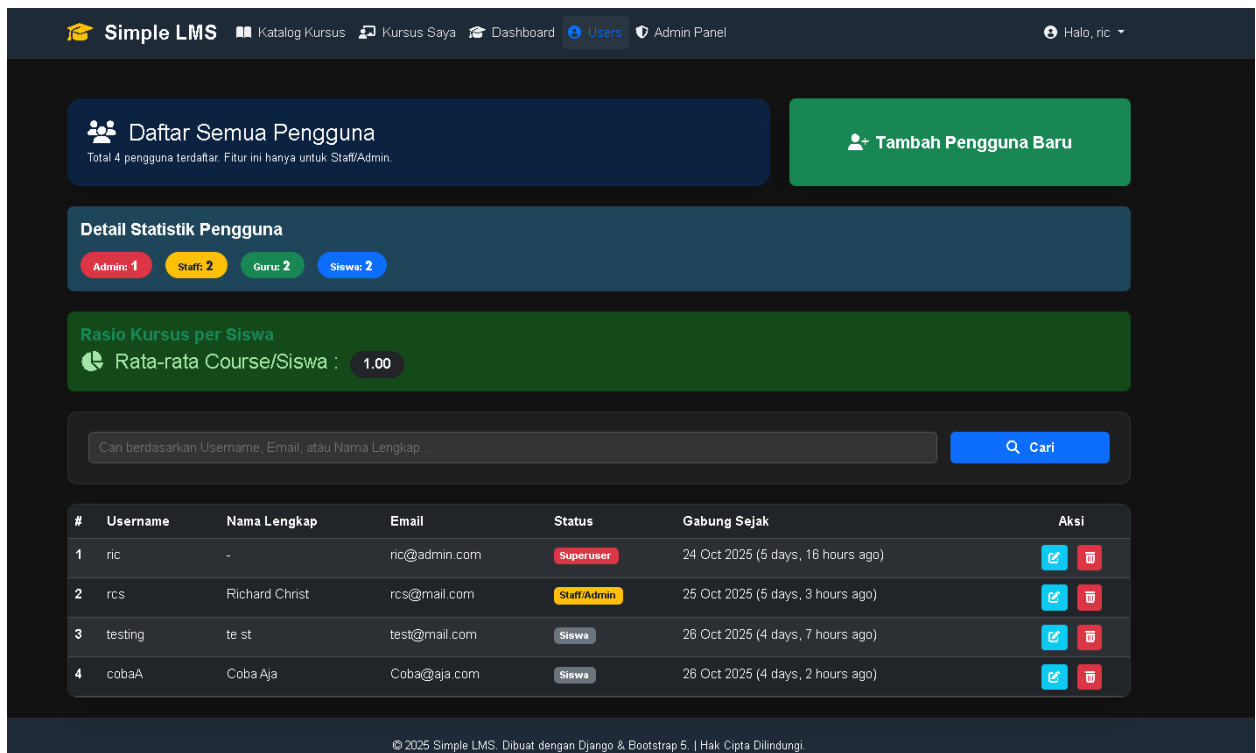
Hasil :



- Statistik Semua User

```
@user_passes_test(is_staff_or_superuser)
@login_required
def users(request):
    query = request.GET.get('q')
    if query:
        myusers = User.objects.filter(
            Q(username__icontains=query) |
            Q(first_name__icontains=query) |
            Q(last_name__icontains=query) |
            Q(email__icontains=query)
        ).distinct().order_by('date_joined')
        message = f"Menampilkan hasil pencarian untuk: '{query}'"
    else:
        myusers = User.objects.all().order_by('date_joined')
        message = ""

    admin = User.objects.filter(is_superuser=True).count()
    staff = User.objects.filter(is_staff=True).count()
    siswa = User.objects.filter(is_staff=False, is_superuser=False).count()
    teacher = User.objects.filter(course__isnull=False).distinct().count()
    Tcourse = CourseMember.objects.values('course_id').distinct().count()
    Tmember = CourseMember.objects.filter(roles = 'std').values('user_id').distinct().count()
    rata2 = Tcourse/Tmember
    context = {
        'myusers': myusers,
        'query': query,
        'search_message': message,
        'total_users': User.objects.all().count(),
        'admin': admin,
        'staff': staff,
        'siswa': siswa,
        'teacher': teacher,
        'rata2': rata2,
    }
    return render(request, 'user/all_users.html', context)
```



- Detail Statistik User

```
@login_required
def user_dashboard(request):
    user = request.user

    if user.is_staff:
        course_memberships = CourseMember.objects.filter(user_id=user)
        jumlah = Course.objects.filter(teacher=request.user).count()
        member = CourseMember.objects.filter(user_id=user)
        komen = Comment.objects.filter(member_id__in=member).count()
        context = {
            'is_teacher': True,
            'courses': course_memberships,
            'jumlah': jumlah,
            'komen': komen
        }
    return render(request, 'completion/dashboard.html', context)
```



## Dashboard Kamu

Selamat datang di ruang belajar interaktifmu! Keaktifan : 3 komentar diposting

Kelas yang Anda Ajar / Kelola : 2



### Sistem Jaringan

Jumlah Anggota : 1

Lihat Konten



### Server Distribusi

Jumlah Anggota : 3

Lihat Konten