

## Topic: Login / Logout & User Restrictions Module Part 15

Speaker: Udemy Instructor Rathan Kumar | Notebook: Django: Automating Common Tasks



1. We completed the REGISTER module previously. To make your Login link work, we need to update our URLS.PY

```
AutomatingCommonTasks
EXPLORER AUTOMATINGCOMMONTASKS
  autocommontasks_main
    _pycache_
    static
    __init__.py
    asgi.py
    celery.py
    forms.py
    settings.py
    uris.py
    views.py
    wsgi.py
    dataentry
    env
    media
    Resources
    static
    templates
      dataentry
        exportdata.html
        importdata.html
        alerts.html
        base.html
        home.html
        register.html
      uploads
    .env
    .gitignore
    db.sqlite3
    manage.py
  12
  13 Including another URLconf
  14 ... 1. Import the include() function: from django.urls import include, path
  15 ... 2. Add a URL to urlpatterns: path('blog/', include('blog.urls'))
  16 """
  17 from django.contrib import admin
  18 from django.urls import path, include
  19 from . import views
  20 from django.conf.urls.static import static
  21 from django.conf import settings
  22
  23 urlpatterns = [
  24     path('admin/', admin.site.urls),
  25     path('', views.home, name='home'),
  26     # Links to our dataentry app's URLS.PY
  27     path('dataentry/', include('dataentry.urls')),
  28     path('celery-test/', views.celery_test),
  29     # registration and login
  30     path('register/', views.register, name='register'),
  31     path('login/', views.login, name='login'),
  32
  33 ] + static(settings.MEDIA_URL, document_root=settings.MEDIA_ROOT)
  34
```

2. Create our LOGIN function in the VIEWS.PY

```
def login(request):
    ... return render(request, 'login.html')

def logout(request):
    ... return render(request, 'home.html')
```

3. Create our LOGIN.HTML

```
1 {% extends 'base.html' %}
2 {% block content %}
3
4
5 {% load crispy_forms_tags %}
6
7 <div class="container mt-5" style="max-width: 600px;">
8     <<h2 class="text-center">Login</h2>
9     <<form action="{% url 'login' %}" method="POST">
10         <<{{ csrf_token %}}
11
12         <<<div class="form-group">
13             <<{{ form | crispy }}
14         <<</div>
15
16         <<<div class="form-group">
17             <<input type="submit" value="Login" class="btn btn-primary">
18         <<</div>
19     <</form>
20     <<{% include 'alerts.html' %}
21
22 </div>
23
24 {% endblock %}
```

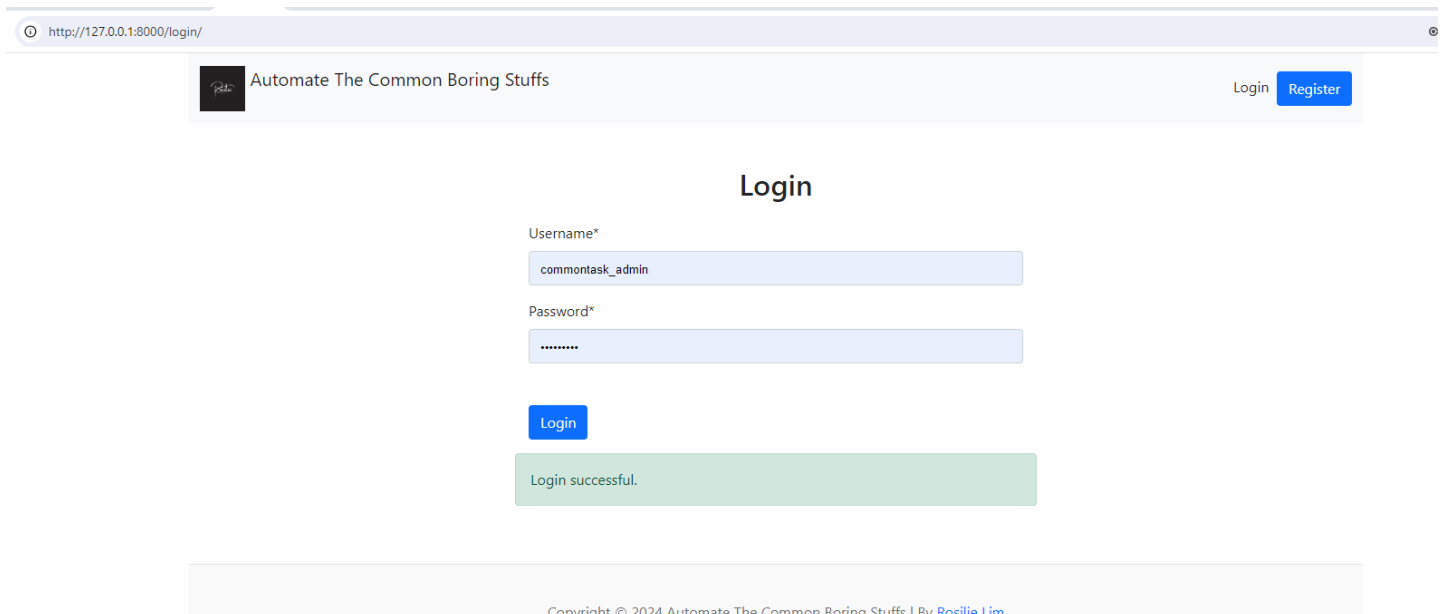
4. Update our BASE.HTML

```
<div>
    <a href="{% url 'login' %}" class="float-right text-decoration-none text-dark">Login</a>
    &nbsp;<a href="{% url 'register' %}" class="float-right btn btn-primary">Register</a>
</div>
```

5. Update our VIEWS.PY

```
EXPLOLER
AUTOMATINGCOMMONTASKS
autocommontasks_main > views.py > login
44
45
46 def login(request):
47
48     if request.method == 'POST':
49         form = AuthenticationForm(request, request.POST)
50         if form.is_valid():
51             # gets the value from the Django Form
52             username = form.cleaned_data['username']
53             password = form.cleaned_data['password']
54
55             user = auth.authenticate(username=username, password=password)
56             if user is not None:
57                 # authenticated user is login
58                 auth.login(request, user)
59                 return redirect('home')
60             else:
61                 messages.error(request, 'Invalid credentials.')
62                 return redirect('login')
63
64         else:
65             form = AuthenticationForm()
66             context = {
67                 'form': form,
68             }
69
70     return render(request, 'login.html', context)
71
```

Run the code:



6. We should not show REGISTER button if we are logged in, so we update our BASE.HTML AS:

```

<nav class="navbar navbar-light bg-light">
  <div class="container">
    <a class="navbar-brand" href="{% url 'home' %}">
      
      Automate The Common Boring Stuffs
    </a>
    {% if user.is_authenticated %}
    <!-- show Logout button -->
    <div>
      Logged in as: {{user}}
      <a href="{% url 'logout' %}" class="float-right btn btn-outline-danger">Logout</a>
    </div>
    {% else %}
    <div>
      <a href="{% url 'login' %}" class="float-right text-decoration-none text-dark">Login</a>
      &nbsp;<a href="{% url 'register' %}" class="float-right btn btn-primary">Register</a>
    </div>
    {% endif %}
  </div>
</nav>

```

7. To make our logout button work, we update our VIEWS.PY AS:

```

def logout(request):
    auth.logout(request)
    return redirect('home')

```

8. Test our code:



## Automate The Boring Stuff With Django

### Import Data

Imports data from CSV file to any table.

### Export Data

Exports data from a specific table to a CSV file.

### Bulk Emails

Sends bulk emails to users

### Email Tracking

Tracks emails and shows open and click rate

### Compress Images

Compresses Image files and reduces the size

### Web Scraping

Scrapes websites for useful information

9. To make see only the tools when they log in, we must update our HOME.HTML. We add the IF ELSE statement so that the tools would only appear if we log in otherwise we see the homepage with some information instead.

```
AutomatingCommonTasks
EXPLORER
AUTOMATINGCOMMONTASKS
  autocommontasks_main
  _pycache_
  static
    css
      custom.css M
    images
    js
  _init_.py
  asgi.py
  celery.py
  forms.py U
  settings.py M
  urls.py M
  views.py M
  wsgi.py
  dataentry
  env
  media
  Resources
  static
  templates
    dataentry
      exportdata.html
      importdata.html
      alerts.html
      base.html M
      home.html M
      login.html U
      register.html U
    uploads
  .env
  .gitignore
  db.sqlite3
  manage.py

templates > home.html > div.container
1 {% extends 'base.html' %}
2 {% block content %}
3 <div class="container" style="padding: 50px;margin-top: 5%;">
4
5     <!-- Only logged-in user can see the tools -->
6
7     {% if user.is_authenticated %}
8     <h2 class="text-center">Automate The Common Boring Stuffs with Django</h2>
9     <div class="row pt-5">
10
11         <!-- Import data -->
12         <div class="col-md-4">
13             <a href="{% url 'import_data' %}" class="text-decoration-none text-dark">
14                 <div class="card alert-primary shadow">
15                     <div class="card-header">
16                         <h4>Import Data</h4>
17                     </div>
18                     <div class="card-body">
19                         <p class="card-text">Imports data from CSV file to any table.</p>
20                     </div>
21                 </div>
22             </a>
23         </div>
24         <!-- Export Data -->
25         <div class="col-md-4">
26             <a href="{% url 'export_data' %}" class="text-decoration-none text-dark">
27                 <div class="card alert-success shadow">
28                     <div class="card-header">
29                         <h4>Export Data</h4>
30                     </div>
31                     <div class="card-body">
32                         <p class="card-text">Exports data from any table to CSV file.</p>
33                     </div>
34                 </div>
35             </a>
36         </div>
37     </div>
38
39     {% else %}
40     <!-- Home Page content if user is not logged in -->
41     <div class="home-info">
42         <h2 class="text-center">Automate The Common Boring Stuffs with Django</h2>
43         <p class="lead text-center text-muted">
44             Automate the Boring Stuff with Django is a project-based course to build various tools using the Django
45             framework to automate routine tasks, ranging from data processing to scheduling, and more.
46             By leveraging Django's capabilities, users can streamline their workflows, saving time and enhancing
47             productivity.
48         </p>
49         <div style="display: flex; justify-content: center;">
50             <a href="{% url 'login' %}" class="btn btn-success">LOGIN</a>
51             &nbsp;<a href="{% url 'register' %}" class="btn btn-primary">REGISTER</a>
52         </div>
53     </div>
54
55     {% endif %}
56
57 </div>
58
59 {% endblock %}
```

```
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    uploads
  .env
  .gitignore
  db.sqlite3
  manage.py

templates > home.html > div.container > div.row.pt-5 > div.col-md-4 > a.text-decoration-none.text-dark > div.card.alert-primary.shadow
3 <div class="container" style="padding: 50px;margin-top: 5%;">
4
5     <!-- Only logged-in user can see the tools -->
6
7     {% if user.is_authenticated %}
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17                     </div>
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20                     </div>
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30                     </div>
31                     <div class="card-body">
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34                 </div>
35             </a>
36         </div>
37     </div>
38
39     {% else %}
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45             framework to automate routine tasks, ranging from data processing to scheduling, and more.
46             By leveraging Django's capabilities, users can streamline their workflows, saving time and enhancing
47             productivity.
48         </p>
49         <div style="display: flex; justify-content: center;">
50             <a href="{% url 'login' %}" class="btn btn-success">LOGIN</a>
51             &nbsp;<a href="{% url 'register' %}" class="btn btn-primary">REGISTER</a>
52         </div>
53     </div>
54
55     {% endif %}
56
57 </div>
58
59 {% endblock %}
```

9. Load the page:



## Automate The Common Boring Stuff with Django

"Automate the Boring Stuff with Django" is a project-based course to build various tools using the Django framework to automate routine tasks, ranging from data processing to scheduling, and more. By leveraging Django's capabilities, users can streamline their workflows, saving time and enhancing productivity.

LOGIN REGISTER

From here, you can login or register to see the Django tools.

We have made some custom CSS for our footer and home-info: We run COLLECTSTATIC to make sure that this external CSS is added to our root folder for deployment.

The image shows a code editor with a dark theme. On the left is the Explorer sidebar showing a project structure. The main editor area displays CSS code for a footer and a form group. The file 'custom.css' is highlighted in the sidebar. The code includes comments for 'Footer', 'Form Group', and 'Home Info'.

```
1 /*
2  * Footer
3  */
4 .blog-footer {
5     padding: 2.5rem 0;
6     color: #727272;
7     text-align: center;
8     background-color: #f9f9f9;
9     border-top: .05rem solid #e5e5e5;
10 }
11
12 .blog-footer p:last-child {
13     margin-bottom: 0;
14 }
15
16 /*
17  * Form Group
18  */
19 .form-group {
20     padding: 15px !important;
21 }
22
23
24 /*
25  * Home Info
26  */
27 .home-info {
28     /* position: absolute;
29     top: 50%;
30     left: 50%;
31     transform: translate(-50%, -50%); */
32     padding: 20px;
33 }
```