Profile Application:
       Name:
       Age:
       GF:
       Please check your complete info

D:\Django_20MAR_7PM>django-admin startproject sessionproject6
D:\Django_20MAR_7PM>cd sessionproject6
D:\Django_20MAR_7PM\sessionproject6>py manage.py startapp testapp

-->Add app in settings.py
-->makemigrations and migrate

- **forms.py**

```
from django import forms
class NameForm(forms.Form):
   name = forms.CharField()
```

- **views.py**

```
from testapp.forms import NameForm
def name_view(request):
   form = NameForm()
   return render(request,'testapp/name.html',{'form':form})
```

- **name.html**

```
<body>
  <h1>Name Registration Form</h1>
  <form action="">
   {{form.as_p}}
   {% csrf_token %}
   <input type="submit" name="" value="Submit Name">
  </form>
</body>
```

- **urls.py**

```
path('name/',views.name_view)
```

- **forms.py**

```python
class AgeForm(forms.Form):
    age = forms.IntegerField()
```

- **views.py**

```python
def age_view(request):
    name = request.GET['name']
    request.session['name'] = name
    form = AgeForm()
    return render(request,'testapp/age.html',{'form':form,'name':name})
```

- **age.html**

```html
<body>
    <h1>Hello {{name}}, Provide Age</h1>
    <form action="">
     {{form.as_p}}
     {% csrf_token %}
     <input type="submit" name="" value="Submit Age">
    </form>
</body>
```

- **urls.py**

```python
path('age/',views.age_view)
```

- **name.html**

```html
<form action='/age'>
```

- **forms.py**

```python
class GfForm(forms.Form):
    name = forms.CharField()
```

- **views.py**

```python
def gf_view(request):
    age = request.GET['age']
    request.session['age'] = age
    name = request.session['name']
    form = GfForm()
    return render(request,'testapp/gf.html',{'form':form,'name':name})
```

- **gf.html**

```html
<body>
  <h1>Hello {{name}}, Provide Girl Friend Name</h1>
  <form action="">
   {{form.as_p}}
   {% csrf_token %}
   <input type="submit" name="" value="Submit GF Name">
  </form>
 </body>
```

- **views.py**

```python
def results_view(request):
  gf = request.GET['gf']
        request.session['gf'] = gf
  name = request.session['name']
  age = request.session['age']
  return render(request,'testapp/results.html')
```

- **results.html**

```html
<body>
  {% if request.session %}
  <h1>Thanks for providing information...please confirm once</h1>
  <ul>
  {% for key,value in request.session.items %}
  <li>{{key | upper}}:{{value | title}}</li>
  {% endfor %}
  </ul>
  {% else %}
  <h1>No information available</h1>
  {% endif %}
</body>
```

- **urls.py**

```python
path('results/',views.results_view)
```

Cart Application with Session API

CHAPTER-9

Authentication and Authorization:
Authentication: The process of validating user.
Authorization: The process of validating access permission of a user.

login page
uname and password--->should be stored for future purpose
validation must be required

auth application
1).django.contrib.auth
2).django.contrib.contenttypes

Demo app:
D:\Django_20MAR_7PM>django-admin startproject authproject
D:\Django_20MAR_7PM>cd authproject
D:\Django_20MAR_7PM\authproject>py manage.py startapp testapp

-->Add app in settings.py
-->makemigrations and migrate

- **base.html**

```
<body>
  <nav class="navbar navbar-expand-lg navbar-dark bg-dark">
   <div class="container">
    <a class="navbar-brand" href="#">MAHESHEXAMS</a>
    <ul class="navbar-nav mr-auto">
     <li class="nav-item active">
      <a class="nav-link" href="#">Home <span class="sr-only"></span></a>
     </li>
     <li class="nav-item">
      <a class="nav-link" href="#">Java Exams</a>
     </li>
     <li class="nav-item">
      <a class="nav-link" href="#">Python Exams</a>
     </li>
     <li class="nav-item">
      <a class="nav-link" href="#">Aptitude Exams</a>
     </li>
    </ul>
```

```html
      <ul class="navbar-nav ml-auto">
       <li class="nav-item">
         <a class="nav-link" href="#">Signup</a>
       </li>
       <li class="nav-item">
         <a class="nav-link" href="#">Login</a>
       </li>
       <li class="nav-item">
         <a class="nav-link" href="#">Logout</a>
       </li>
       </ul>
     </div>
    </nav>
     {% block body_block%}
     {% endblock %}
  </body>
```

- **home.html**

```html
<!DOCTYPE html>
{% extends 'testapp/base.html' %}
{% block body_block %}
<div class="jumbotron">
 <div class="container">
   <h1>Welcome To MAHESH EXAMS</h1>
   <h2>Rules:</h2>
   <ul>
     <li>Rule-1:You should write only one exam per day</li>
   </ul>
 </div>
</div>
{% endblock %}
```

- **views.py**

```python
def home_page_view(request):
   return render(request,'testapp/home.html')
```

- **urls.py**

```python
path('', views.home_page_view),
```