

WEEK5 SUBMISSIONS FINAL

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Sec :VI B

1. Create a web form which allows the teacher to enter the student details like name, date of birth, address, contact number, email id and marks of English, Physics and Chemistry. After filling all the information and on clicking submit button, details be added to a text area displayed on the same page. Display the total percentage of marks obtained in a label.

/settings.py:

```
INSTALLED_APPS = [  
    "django.contrib.admin",  
    "django.contrib.auth",  
    "django.contrib.contenttypes",  
    "django.contrib.sessions",  
    "django.contrib.messages",  
    "django.contrib.staticfiles",  
    "q1",  
    "q2",  
    "q3",  
    "q4",  
    "addn1",  
    "addn2",  
]
```

/urls.py:

```

from django.contrib import admin
from django.urls import path, include
from django.conf import settings
from django.conf.urls.static import static

urlpatterns = [
    path("admin/", admin.site.urls),
    path("", include("home.urls")),
    path("q1/", include("q1.urls")),
    path("q2/", include("q2.urls")),
    path("q3/", include("q3.urls")),
    path("q4/", include("q4.urls")),
    path("addn1/", include("addn1.urls")),
    path("addn2/", include("addn2.urls")),
]

```

/q1/views.py

```

from django.shortcuts import render
from django.views.generic import TemplateView

# Create your views here.

class TeacherFormView(TemplateView):
    template_name = "q1.html"

```

q1/urls.py:

```

from django.conf.urls import url
from .views import TeacherFormView

urlpatterns = [
    url("", TeacherFormView.as_view(), name="q1"),
]

```

/urls.py

```
from django.contrib import admin
from django.urls import path, include

urlpatterns = [
    path("admin/", admin.site.urls),
    path("q1/", include("q1.urls")),
    path("q2/", include("q2.urls")),
    path("q3/", include("q3.urls")),
    #path("q4/", include("q4.urls")),
    # path("/addn1", include("addn1.urls")),
]
```

/templates/base.html:

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width,
initial-scale=1.0" />
    <title>Week 5 Programs</title>
  </head>
  <body>
    <header>
      <a href="{% url 'q1' %}">Q1 </a> | <a href="{% url 'q2'
%}">Q2 </a> |
      <a href="{% url 'q3' %}">Q3 </a>
    </header>
    <body>
      {% block content %} {% endblock content %}
```

```

</body>
<footer>
  <p>Author: Sagnik Chatterjee</p>
  Github:
  <p>
    <a
href="https://github.com/sagnik-chatterjee">sagnik-chatterjee
</a>
  </p>
</footer>
</body>
</html>

```

/q1/templates/index.html:

```

{% extends 'base.html' %} {% block content %}
    document.getElementById("avg_marks").innerHTML = " ";
    var s_name = document.getElementById("nm").value;
    var s_dob = document.getElementById("dob").value;
    var s_contact = document.getElementById("cnum").value;
    var s_email = document.getElementById("smail").value;
    var e_marks =
parseInt(document.getElementById("emark").value);
    var p_marks =
parseInt(document.getElementById("pmark").value);
    var c_marks =
parseInt(document.getElementById("cmark").value);
    var avg = ((e_marks + p_marks + c_marks) * 100) / 300;
    var data = `
                ***** RESULTS *****
                Name of the student: ${s_name}\n
                Date of Birth: ${s_dob}\n
                Contact Number: ${s_contact}\n

```

```

E-mail ID: ${s_email}\n
-----Marks-----
English Marks :${e_marks}
Physics Ma<h2>Q1 Teacher Form</h2>
<form>
  <label>Name:</label><br />
  <input type="text" id="nm" /><br />
  <label>Date Of Birth:</label><br />
  <input type="date" id="dob" /><br />
  <label>Contact Number: </label><br />
  <input type="number" id="cnum" /><br />
  <label>E-mail: </label><br />
  <input type="email" id="smail" /><br />
  <label>-----MARKS-----</label>
  <br /><label>English Marks : </label><br />
  <input type="number" id="emark" /><br />
  <label>Physics Marks: </label><br />
  <input type="number" id="pmark" /><br />
  <label>Chemistry Marks : </label><br />
  <input type="number" id="cmark" /><br />
  <button type="button" onclick="checkMarks()">Submit</button>
</form>
<br />
<pre id="det" style="display: none"></pre>
<label id="avg_marks"></label>
<script>
  function checkMarks() {
    document.getElementById("det").style.display = "none";
    document.getElementById("det").innerHTML = " ";
rks :${p_marks}
    Chemistry Marks :${c_marks}

```

```

                                The average marks of the Subjects is:-
${avg} %

;

document.getElementById("det").style.display = "block";
document.getElementById("det").innerHTML = data;
//document.getElementById('avg_marks').innerHTML = avg
}
</script>
{% endblock content %}

```

Ss:

Activities Firefox Web Browser May 3 09:23
Week 5 Programs — Mozilla Firefox

[Q1](#) | [Q2](#) | [Q3](#)

Q1 Teacher Form

Name:
sagnik

Date Of Birth:
25 / 07 / 2000

Contact Number:
123456789

E-mail:
sagnik@gmail.com

-----MARKS-----
English Marks :
99
Physics Marks:
97
Chemistry Marks :
98

Submit

***** RESULTS *****
Name of the student: sagnik
Date of Birth: 2000-07-25
Contact Number: 123456789
E-mail ID: sagnik@gmail.com
-----Marks-----
English Marks :99
Physics Marks :97
Chemistry Marks :98
The average marks of the Subjects is:- 98 %

Author: Sagnik Chatterjee
Github:
[sagnik-chatterjee](#)

127.0.0.1:9000/q1/

2. Create a web form with employee ids in dropdown list. Use a textbox for accepting date of joining. Add a button named “Am I Eligible for Promotion”. On clicking the button, if he has more than 5years of experience, then display “YES” else “NO” in the label control.

/settings.py:

```
INSTALLED_APPS = [  
    "django.contrib.admin",  
    "django.contrib.auth",  
    "django.contrib.contenttypes",  
    "django.contrib.sessions",  
    "django.contrib.messages",  
    "django.contrib.staticfiles",  
    "q1",  
    "q2",  
    "q3",  
    "q4",  
    "addn1",  
    "addn2",  
]
```

/urls.py:

```
from django.contrib import admin  
from django.urls import path, include  
from django.conf import settings  
from django.conf.urls.static import static  
  
urlpatterns = [  
    path("admin/", admin.site.urls),  
    path("", include("home.urls")),  
    path("q1/", include("q1.urls")),  
    path("q2/", include("q2.urls")),  
    path("q3/", include("q3.urls")),  
    path("q4/", include("q4.urls")),  
    path("addn1/", include("addn1.urls")),  
    path("addn2/", include("addn2.urls")),  
]
```

/q2/urls.py

```
from django.urls import path  
from .views import EmployeeForm
```

```
urlpatterns = [
    path("", EmployeeForm.as_view(), name="q2"),
]
```

/q2/views.py

```
from django.shortcuts import render
from django.views.generic import TemplateView

# Create your views here.

class EmployeeForm(TemplateView):
    template_name = "q2.html"
```

/q2/templates/index.html:

```
{% extends 'base.html' %} {% block content %}
<h1>Employee Operations Q2</h1>
<label for="employee ">Choose a employee id:</label>
<select id="employee_id">
    <option value="180905478">180905478</option>
    <option value="180906478">180906478</option>
    <option value="180907478">180907478</option>
    <option value="180953086">180953086</option>
</select>
<br />
<h2>Date of Joining :</h2>
<br />
<input type="date" id="doj" />
<button type="button" onclick="checkEligible()">Is Eligible
?</button>
<h1 id="control"></h1>
<script>
    function checkEligible() {
        var doj = document.getElementById("doj").value;
```



```

var emp = document.getElementById("employee_id").value;
var curr_dt = new Date();
var doj_new = new Date(doj);
var diff = (curr_dt.getTime() - doj_new.getTime()) / 1000;
diff /= 60 * 60 * 24;
var ans = Math.abs(Math.round(diff / 365.25));
if (ans > 5) {
    document.getElementById(
        "control"
    ).innerHTML = `${emp} is Eligible For Promotion`;
} else {
    document.getElementById(
        "control"
    ).innerHTML = `${emp} is not Eligible For Promotion`;
}
}
</script>
{% endblock content %}

```



3. . Develop a simple web page to perform basic arithmetic operations. Take two integer inputs from the user, select the operation to be performed using a dropdown. Include a button "Calculate" to perform the selected operation, and then display the result in the same web page.

/settings.py:

```
INSTALLED_APPS = [  
    "django.contrib.admin",  
    "django.contrib.auth",  
    "django.contrib.contenttypes",  
    "django.contrib.sessions",  
    "django.contrib.messages",  
    "django.contrib.staticfiles",  
    "q1",  
    "q2",  
    "q3",  
    "q4",  
    "addn1",  
    "addn2",  
]
```

/urls.py:

```
from django.contrib import admin  
from django.urls import path, include  
from django.conf import settings  
from django.conf.urls.static import static  
  
urlpatterns = [  
    path("admin/", admin.site.urls),  
    path("", include("home.urls")),  
    path("q1/", include("q1.urls")),  
    path("q2/", include("q2.urls")),  
    path("q3/", include("q3.urls")),  
    path("q4/", include("q4.urls")),  
    path("addn1/", include("addn1.urls")),  
    path("addn2/", include("addn2.urls")),  
]
```

/q3/urls.py

```
from django.urls import path
from .views import BasicArithmetic

urlpatterns = [
    path("", BasicArithmetic.as_view(), name="q3"),
]
```

/q3/views.py:

```
from django.shortcuts import render

# Create your views here.
from django.views.generic import TemplateView

class BasicArithmetic(TemplateView):
    template_name = "q3.html"
```

/q3/templates/index.html:

```
{% extends 'base.html' %} {% block content %}
<h1>Calculator Operations Q3</h1>

<label>Enter Number1:</label>
<input type="number" id="num_1" /><br /><br />
<label>Enter Number2:</label>
<input type="number" id="num_2" /><br /><br />
<label>Operation</label>

<select id="operation_id">
  <option selected value="+">+</option>
  <option value="-">-</option>
  <option value="*">*</option>
  <option value="/">/</option>
</select>
<input type="button" value="Calculate" />
</block>{% endblock %}
```

```
</select>
<br />
<button type="button" onclick="checkOperations()">Calculate
Result :</button>
<h1 id="control"></h1>
<script>
    function checkOperations() {
        var num1 =
parseInt(document.getElementById("num_1").value);
        var num2 =
parseInt(document.getElementById("num_2").value);
        var op = document.getElementById("operation_id").value;
        if (op === "+") {
            var ans = num1 + num2;
            document.getElementById(
                "control"
            ).innerHTML = ` The result is :- ${num1} ${op} ${num2}
:= ${ans}`;
        } else if (op === "-") {
            var ans = num1 - num2;
            document.getElementById(
                "control"
            ).innerHTML = ` The result is :- ${num1} ${op} ${num2}
:= ${ans}`;
        } else if (op === "*") {
            var ans = num1 * num2;
            document.getElementById(
                "control"
            ).innerHTML = ` The result is :- ${num1} ${op} ${num2}
:= ${ans}`;
        } else {
            var ans = num1 / num2;
            document.getElementById(
```

```
        "control"  
    ).innerHTML = ` The result is :- ${num1} ${op} ${num2}  
:= ${ans}`;  
    }  
}  
</script>  
{% endblock content %}
```



```
/urls.py
```

```

from django.contrib import admin
from django.urls import path, include
from django.conf import settings
from django.conf.urls.static import static

urlpatterns = [
    path("admin/", admin.site.urls),
    path("", include("home.urls")),
    path("q1/", include("q1.urls")),
    path("q2/", include("q2.urls")),
    path("q3/", include("q3.urls")),
    path("q4/", include("q4.urls")),
    path("addn1/", include("addn1.urls")),
    path("addn2/", include("addn2.urls")),
]

```

/settings.py

```

INSTALLED_APPS = [
    "django.contrib.admin",
    "django.contrib.auth",
    "django.contrib.contenttypes",
    "django.contrib.sessions",
    "django.contrib.messages",
    "django.contrib.staticfiles",
    "q1",
    "q2",
    "q3",
    "q4",
    "addn1",
    "addn2",
]

```

/q4/urls.py:

```
from django.conf.urls import url
from . import views
urlpatterns = [
    url(r'^$', views.index, name='index'),
]
```

/q4/views.py

```
from django.shortcuts import render

# Create your views here.
def index(request):
    return render(request, 'base.html')
```

/q4/static/js/script1.js

```
function imageSelect1() {
    var canvas = document.getElementById("myCanvas");
    canvas.height = canvas.width * 16 / 9;
    var ctx = canvas.getContext("2d");
    var img = document.getElementById("img1");
    ctx.drawImage(img, 10, 10, 500, 750);
};

function imageSelect2() {
    var canvas = document.getElementById("myCanvas");
    canvas.height = canvas.width * 16 / 9;
    var ctx = canvas.getContext("2d");
    var img = document.getElementById("img2");
    ctx.drawImage(img, 10, 10, 500, 750);
};

function imageSelect3() {
    var canvas = document.getElementById("myCanvas");
    canvas.height = canvas.width * 16 / 9;
    var ctx = canvas.getContext("2d");
    var img = document.getElementById("img3");
    ctx.drawImage(img, 10, 10, 500, 750);
};
```



```

function imageSelect4() {
    var canvas = document.getElementById("myCanvas");
    canvas.height = canvas.width * 16 / 9;
    var ctx = canvas.getContext("2d");
    var img = document.getElementById("img4");
    ctx.drawImage(img, 10, 10, 500, 750);
};

function fontSelect() {
    var nam = document.getElementById("magName").value;
    var fsize = document.getElementById("size").value;
    var fname =
document.getElementById("inputGroupSelect01").value;
    var fcolor =
document.getElementById("inputGroupSelect02").value;
    var byline = document.getElementById("byline").value;
    var canvas = document.getElementById("myCanvas");
    var ctx = canvas.getContext("2d");
    ctx.font = fsize + "px " + fname;
    ctx.fillStyle = fcolor;
    ctx.textAlign = "center";
    ctx.fillText(nam, canvas.width / 2, canvas.height / 2);
    ctx.font= "30px Times New Roman"
    ctx.fillText(byline, canvas.width / 2, canvas.height*4 / 5);
};

```

/q4/static/style.css

```

div.form-group {
    background-color: paleturquoise;
    margin-top:100px;
}

div.gallery {
    margin: 5px;
    border: 1px solid #ccc;

```

```
float: left;
width: 180px;
}
div.gallery:hover {
border: 1px solid #777;
}

div.gallery img {
width: 100%;
height: auto;
}

div.desc {
padding: 15px;
text-align: center;
}

canvas #myCanvas {
width: 1000px;
height: 1000px;
display: block;
margin-left: auto;
margin-right: auto;
width: 50%;
}
```

Q5Develop a simple web page to reproduce the given Captcha. Upon match, suitable message has to be displayed. If there is a mismatch for more than 3times, TextBox has to be disabled

/addn1/urls.py

```
from django.contrib import admin
from django.urls import path
from . import views

urlpatterns=[
    path('',views.captcha,name='addn1')
]
```

/addn1/views.py

```
from django.shortcuts import render

# Create your views here.
from django import forms

class InputForm(forms.Form):
```

```

text = forms.CharField(max_length=200)

disabled = False
failed_count = 0

def captcha(request):
    global disabled
    global failed_count
    form = InputForm()
    disabled = "First"

    if request.method == "POST":
        if request.POST['text'] != 'PQJRYD':
            failed_count += 1
            disabled = "Incorrect"
        else:
            failed_count = 0
            disabled = False
        if failed_count == 3 :
            disabled = True
            form.fields['text'].widget.attrs['readonly'] =
disabled

    context = {
        'form' : form,
        'disabled': disabled,
        'attempts': 3 - failed_count
    }

    return render(request, 'addn1/index.html', context)

```

/templates/addn1.html

```

{% extends 'base2.html' %}
{% load crispy_forms_tags %}
{% load static %}
{%block content %}
<div class="card">
  <h2 class="card-header">Verify Captcha</h2>
  <div class="card-body">
    {% if disabled == True %}
    <div class="alert alert-danger" role="alert">
      You have run out on attempts !
    </div>
    {% elif disabled == False %}
    <div class="alert alert-success" role="alert">
      You have entered correct !
    </div>
    {% elif disabled == "Incorrect" %}
    <div class="alert alert-warning" role="alert">
      You have {{attempts}} attempts remaining !
    </div>
    {% endif %}
    
    <form method="POST">
      {% csrf_token %}{% form|crispy %}
      <button type="submit" class="btn btn-primary mt3">verify
captcha</button>
    </form>
  </div>
</div>
{% endblock content %}

```

/templates/temp1.html:

```

<!DOCTYPE html>
<html lang="en">
  <head>

```

```
<meta charset="UTF-8" />
<meta http-equiv="X-UA-Compatible" content="IE=edge" />
<meta name="viewport" content="width=device-width,
initial-scale=1.0" />
<link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-beta3/dist/cs
s/bootstrap.min.css"
    ref="stylesheet"
/>
<link
    rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/fontawesome/5.15.3/
css/all.min.css"
/>
<style>
    img {
        width: 50px;
        height: 200px;
    }
</style>
<title>Q5 </title>
</head>
<body class="container pt-5">
    {% if messages %} {% for message in messages %}
    <div class="alert alert-{{ message.tags
}}">{{message}}</div>
    {% endfor %} {% endif %} {% block content %} {% endblock %}
    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-
beta3/dist/js/bootstrap.bundle.min.js"></script>

</html>
```

6. Design a simple web application to provide information about a book. The home page of the application should display the cover page of the book along with three hyperlinks: Metadata, Reviews, Publisher info. Give provision to revert to home page from any other page.

/addn2/urls.py

```
from django.contrib import admin
from django.urls import path
from . import views

urlpatterns = [
    path('', views.addn2, name='addn2'),
]
```

/addn2/views.py

```
from django.shortcuts import render

# Create your views here.

def addn2(request):
    return render(request, 'addn2/index.html')
```

/home/urls.py

```
from django.contrib import admin from django.urls import path from . import views urlpatterns = [ path("", views.home, name='home'), ]
```

```
/publisher/urls.py from django.contrib import admin from django.urls import path from . import views urlpatterns = [ path("", views.publisher, name='publisher'), ] /publisher/views.py from
django.shortcuts import render # Create your views here. def publisher(request): return
render(request, 'publisher/index.html') /metadata/urls.py from django.contrib import admin from
django.urls import path from . import views urlpatterns = [ path("", views.metadata,
name='metadata'), ] /metadata/views.py from django.shortcuts import render # Create your
views here. def metadata(request): return render(request, 'metadata/index.html')
/reviews/urls.py from django.contrib import admin from django.urls import path from . import
views urlpatterns = [ path("", views.reviews, name='reviews'), ] /reviews/views.py from
```

```
django.shortcuts import render # Create your views here. def reviews(request): return
render(request, 'reviews/index.html') /templates/template.html
{% if messages %} {% for message in messages %}
{{message}}
{% endfor %} {% endif %} {% block content %} {% endblock %}
```

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width,
initial-scale=1.0" />
    <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-beta3/dist/cs
s/bootstrap.min.css"
    ref="stylesheet"
  />
    <link
rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/fontawesome/5.15.3/
css/all.min.css"
  />
    <style>
      img {
        width: 50px;
        height: 200px;
      }
    </style>
    <title>Q5 </title>
  </head>
  <body class="container pt-5">
    {% if messages %} {% for message in messages %}
    <div class="alert alert-{{ message.tags
}}">{{message}}</div>
```



```

    {% endfor %} {% endif %} {% block content %} {% endblock %}
    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-
    beta3/dist/js/bootstrap.bundle.min.js"></script>

</html>

```

```

<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width,
    initial-scale=1" />
    <link
      href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-
    beta3/dist/css/bootstrap.min.css"
      rel="stylesheet"
    />
    <link
      href="https://cdnjs.cloudflare.com/ajax/libs/fontawesome/5.15.3/
    css/all.min.css"
    />
  </style>
  <title>Addn 2 | Review </title>
</head>
<body class="container py-5">
  <div class="container">
    <div class="jumbotron">
      <h1>A Thousand Splendid Suns </h1>
    </div>
  </div>
  {% if messages %} {% for message in messages %}

```

```
<div class="alert alert-{{ message.tags
}}">{{message}}</div>

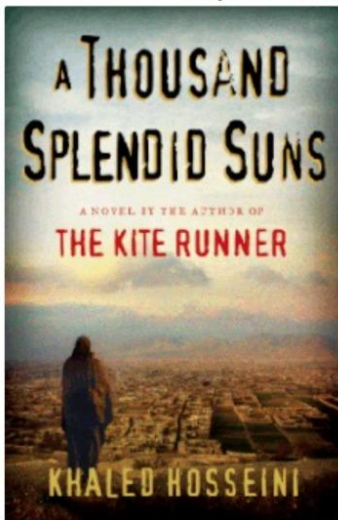
{% endfor %} {% endif %} {% block content %} {% endblock %}

<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-
beta3/dist/js/bootstrap.bundle.min.js"></script>

</body>
</html>
```



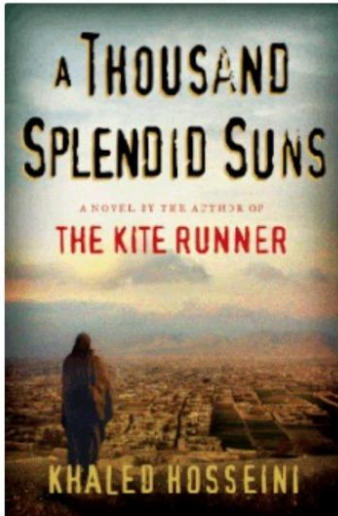
A Thousand Splendid Suns



[publisher](#) [metadata](#) [reviews](#)

A Thousand Splendid Suns is a 2007 novel by Afghan-American author Khaled Hosseini, following his bestselling 2003 debut The Kite Runner. Mariam, an illegitimate teenager from Herat, is forced to marry a shoemaker from Kabul after a family tragedy. Laila, born a generation later, lives a relatively privileged life, but her life intersects with Mariam's when a similar tragedy forces her to accept a marriage proposal from Mariam's husband. Hosseini has remarked that he regards the novel as a "mother-daughter story" in contrast to The Kite Runner, which he considers a "father-son story".[1] It continues some of the themes used in his previous work, such as familial dynamics, but instead focusing primarily on female characters and their roles in contemporary Afghan society. A Thousand Splendid Suns was released on May 22, 2007,[2] and received favorable widespread critical acclaim from Kirkus Reviews,[3] Publishers Weekly,[4] Library Journal,[5] and Booklist,[6] and became a number one New York Times Best Seller for fifteen weeks following its release.[7] During its first week on sale, it sold over one million copies.[8] Columbia Pictures purchased film rights in 2007, and a theatrical adaptation of the book premiered on February 1, 2017, at the American Conservatory Theater in San Francisco.[9]

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Reviews

Harry Potter ★★★★★

This novel is very good

Reviewer ★★★★★

It is very lengthy and boring

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Metadata

The novel is designed in a way in which the narrative throughout the storyline switches between Mariam and Laila in order to provide readers with a closer look towards their feelings and emotions all through the book. The purpose of the book is to explore the multifaceted difficulties Afghan women tend to face in their everyday lives, such as their lack of rights, their suffering from domestic violence, and their endurance of patriarchal issues.

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