

Adding User Interaction with ModelForms



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Overview



Add meetings

Template: HTML forms

- Generated by ModelForm

View

- Validate input
- Create and save new meeting
- Redirect after form submit

Forms and Security

Demo



Adding meetings

Form template

ModelForm

View for processing form data

- Validate
- Save
- Redirect



Forms: General Flow

Show the Form

HTML with form
elements

Generated by
ModelForm

HTTP GET

Submit Form Data

User clicks submit

HTTP POST

Validation

Redirect

If form validates
correctly: show result
page

Otherwise: show form
again



Form Template

```
<form method="post">
```

```
  {{ form }}
```

```
  {% csrf_token %}
```

```
  <button type="submit">Ok</button>
```

```
</form>
```



Form View

```
MeetingForm = modelform_factory(Meeting, exclude=[])
```

```
def new(request):  
    form = MeetingForm()  
    return render(request,  
                  "meetings/new", {'form': form}  
    )
```



Handling Form Submit

```
# in the view
```

```
if request.method == "POST":
```

```
    # This is a form submit
```

```
    # Does input validate? Then process, redirect
```

```
    # If not: show form with errors
```

```
else:
```

```
    # This is a GET: show the form
```



Form Validation

```
# in view, when method is POST
form = MeetingForm(request.POST)
if form.is_valid():
    form.save()
    return redirect('welcome')
return render(request, "meetings/new.html", {'form': form})
```



The Complete View

```
if request.method == "POST":  
    form = MeetingForm(request.POST)  
    if form.is_valid():  
        form.save()  
        return redirect('welcome')  
else:  
    form = MeetingForm()  
return render(request, "meetings/new.html", {'form': form})
```



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