3PILLAR GLOBAL

Python in Web Development

Recap

- Model
- QuerySet & Manager

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LAB 9

Django Admin & Commands

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AGENDA

- Django Admin
- Django Management Commands
- Django Forms

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Admin

- Django Admin
  - Quick and dirty way to edit content
  - Works based on Model definitions
  - Super-fast-easy to config behaviour
  - Inlines - handy for related data

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Example

```
class QuestionAdmin(admin.ModelAdmin):
    list_fields = (‘question_text’, )
    class Meta:
        model = Question


# admin.site.register(Question)
admin.site.register(Question, QuestionAdmin)
```

Management Commands

- Similar to
  - python manage.py dumpdata
  - python manage.py loaddata
  - python manage.py appcommand

- Used to do special actions: generate reports...

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Example command

```
class Command(BaseCommand):

  def add_arguments(self, parser):
     parser.add_argument('arg_id', nargs='+', type=int)

  def handle(self, *args, **options):
    generate_reports()
```

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Django Forms

- Essential for input data validation
- Displays errors related to fields and form
- Able to render itself based on field widget types
- Can be auto-generated using ModelForms
- Used by Admin for content editing
- Essentially has some accessors:
  - is_valid
  - clean_<fieldname>
  - clean
  - errors
  - validated_data

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Django ModelForm

```
class QuestionModelForm(ModelForm):

    class Meta:
        model = Question
        fields = ‘__all__’ # or (‘question_text’, ‘votes’)

# usecase

f = QuestionModelForm({‘question_text’: ‘What is the
meaning of life?’, ‘votes’: 42})
f.is_valid()  # True or False; then we have .errors
f.save()      # ORM magic!
f.instance    # we now have an instance yay!
```

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Quiz time :)

https://goo.gl/forms/fnAY6hcfDZjPnG9j2

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Thank you!

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