Accelerating Information Technology

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Ghana Summer 2012
Lecture DJ3 – Django Admin
Django Admin

- Used for inputting, editing, and deleting data from your application
- Saves you from manually creating admin forms
- Automatically generated based on your models
- Customizable through admin.py
Most important rule

• Django admin

• Not Django user
Django Admin Nevers

• Never:
  – Give normal users access to django admin
  – Give anybody access that you don’t 100% trust
Blog example

- If you are the only blogger, you can use the admin interface
- If you provide a blogging service, you need to make a user interface
- You MUST create a separate interface for users to add comments
- You can use Django Admin to clean up comments
Default admin

class Book(models.Model):
    title = models.CharField(max_length=100)
    authors = models.ManyToManyField(Author)
    publisher = models.ForeignKey(Publisher)
    publication_date = models.DateField()
    def __unicode__(self):
        return self.title

admin.site.register(Book)
Extended Admin

class Book(models.Model):
    title = models.CharField(max_length=100)
    authors = models.ManyToManyField(Author)
    publisher = models.ForeignKey(Publisher)
    publication_date = models.DateField()

def __unicode__(self):
    return self.title

class BookAdmin(admin.ModelAdmin):
    pass
Class BookAdmin(admin.ModelAdmin):
    list_display = ('title','publisher','publication_date')
    list_filter = ('publisher','publication_date')
    search_fields = ('title','publisher')
    ordering = ('title','-publication_date')
Extending your model

- Goal: display the first 10 letters of a book title
- Solution:

In your model, create a method:
```python
def title_first_10(self):
    return self.title[:10]
```

In the admin class, add:
```python
list_display = ('title_first_10')
```
Inlines

- On the admin pages, you may want to see all the Book objects that relate to one Author.
- Django Admin lets you put this all on one page with minimal effort
Inline Syntax

class BookInline(admin.TabularInline):
    model = Book

class AuthorAdmin(admin.ModelAdmin):
    inlines = [BookInline]

(You can use either TabularInline or StackedInline)
We want this:
And this: