

# Customizing Django Admin with admin.py

## 1. @admin.register(Student)

- **Purpose:** Registers the `Student` model with the Django admin site.
- **Usage:** Associates the `StudentAdmin` class with the `Student` model for admin site customization.

## 2. list\_display

- **Purpose:** Specifies fields to display in the admin list view of `Student` instances.
- **Example:** `list_display = ('first_name', 'last_name', 'age', 'date_of_birth')`
- **Usage:** Customize which fields are visible at a glance in the admin interface.

## 3. list\_filter

- **Purpose:** Enables filtering by specified fields in the admin panel sidebar.
- **Example:** `list_filter = ('age', 'date_of_birth')`
- **Usage:** Allows administrators to filter `Student` records based on `age` and `date_of_birth`.

## 4. search\_fields

- **Purpose:** Enables searching for records based on specified fields using a search box.
- **Example:** `search_fields = ('first_name', 'last_name')`
- **Usage:** Facilitates quick lookup of `Student` records by `first_name` or `last_name`.

## 5. fieldsets

- **Purpose:** Defines how fields are grouped and displayed in the add/change form for `Student`.
- **Example:**

```
python
Copy code
fieldsets = (
    (None, {
        'fields': ('first_name', 'last_name')
    }),
    ('Additional Info', {
        'fields': ('age', 'date_of_birth'),
        'classes': ('collapse',)
    }),
)
```

- **Usage:** Organizes form fields into sections for better usability and clarity.

## Summary

- **@admin.register(Student):** Registers the `Student` model with the admin site.
- **list\_display:** Defines fields displayed in the admin list view.

- **list\_filter:** Enables filtering by specific fields.
- **search\_fields:** Enables searching by specified fields.
- **fieldsets:** Organizes fields into sections in the add/change form.