

Django Models

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Django Models

- A **Django model** is the built-in feature that Django uses to create tables, their fields, and various constraints.
- In short, Django Models is the SQL of Database one uses with Django.
- SQL (Structured Query Language) is complex and involves a lot of different queries for creating, deleting, updating or any other stuff related to database.
- Django models simplify the tasks and organize tables into models. Generally, each model maps to a single database table.

Django Models

- We can also use admin panel of Django to create, update, delete or retrieve fields of a model and various similar operations.
- Django models provide simplicity, consistency, version control and advanced metadata handling.
- Basics of a model include –
 - ✓ Each model is a Python class that subclasses `django.db.models.Model`.
 - ✓ Each attribute of the model represents a database field.
 - ✓ With all of this, Django gives you an automatically-generated database-access API

1 User Request
User Makes request by hitting the URL



3 View Logic
Views Contain all the custom logic and connect to templates and models

View

Template

5 Template
context data is passed from view to html template to be displayed

Model

2 URL resolving
The URL is resolved which maps to a VIEW.
Arguments are also extracted from URL and sent to the view.
`/user/1 -> UserView(id -> 1)`

URL

4 Model
Model contains the data as it is connected to database with ORM. It provide required data to views to be sent to template.

