

PYTHON FOR WEB

DJANGO EXPLAINED

Introducing Models in Django

problem solution approach



Presented
By

IB

INSIGHT BUILDER

WHAT MODELS DO?

CONNECTS DJANGO SERVER TO BACKEND, CREATE & POPULATE NECESSARY TABLES IN DATABASE

HOW MODELS DO IT?

MODELS.PY FILE CONTAINS THE DATAMODELS. WHEN THE MAKEMIGRATIONS AND MIGRATE COMMANDS ARE USED, THE DATAMODELS ARE WRITTEN TO THE DATABASE

HOW THE DATA IS QUERIED USING MODELS?

MODEL OBJECTS CREATED IN MODELS.PY ARE IMPORTED IN VIEWS.PY. MODEL OBJECTS HAVE METHODS WHICH ABSTRACT DATABASE QUERY PROCESS, & RETURNS THE DATA

HOW DATA IS ENTERED INTO DATABASE

WE CAN BATCH UPLOAD THE DATA USING RUNSCRIPT EXTENSION AND PYTHON SCRIPT OR LOAD DATA ONE BY ONE USING THE UI INTERFACE IN THE ADMIN PAGE OF SERVER

HOW THE USER DATA IS MANAGED

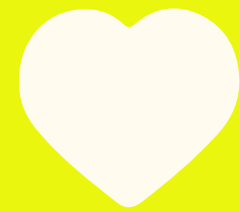
EVERY DJANGO SERVER IS CREATED WITH USER DATA MODELS AND REGISTERED FOR ADMIN PURPOSE. THESE MODELS CAN BE ACCESSED AS OBJECTS INSIDE VIEWS & MODELS.PY

HOW IS MODEL CREATED

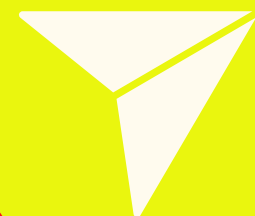
DJANGO HAS DB, CONTRIB AND UTILS MODULES THAT CONTAIN THE SUPPORTING CLASSES AND METHODS

- **Tables :** Each table in database is created as class which extends `models.Model`
- **Column:** Each column is created using the method in the models class. These methods in turn define the columns in database
- **User data:** User data is controlled by the server, and it can imported from `django.contrib.auth.models` as `User`
- **Slugs:** Slugs can be created using `slugify` imported from `django.utils.text`
- **Connecting Tables:** `models.ForeignKey` is used to connect the tables. When querying rows are returned as objects. 'dot' operator is used to get the data from connected table

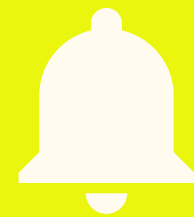
THANKS FOR WATCHING



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