Models.py

LinksHub Models Documentation 🔗

Overview 🔗

This document provides an overview of the models defined in `models.py`. These models represent the core data structures used in the Django application.

Model: `Model3D` 🔗

Represents a 3D model file uploaded to the system.

Fields: 🔗

- **name** (`CharField`): Stores the name of the 3D model. Maximum length: 255 characters.
- **file** (`FileField`): Stores the uploaded 3D model file in the `models/` directory.
- **uploaded_at** (`DateTimeField`): Auto-generated timestamp indicating when the model was uploaded.

Model: `Product` 🔗

Represents a product available in the system, typically related to dental lab services.

Fields: 🔗

- **name** (`CharField`): Stores the name of the product. Maximum length: 200 characters.
- **code** (`CharField`): Unique identifier for the product. Maximum length: 50 characters.
- **price** (`DecimalField`): Price of the product with up to 10 digits and 2 decimal places.
- **lab_days** (`IntegerField`): Number of days required to complete the product in the lab.
- **created_at** (`DateTimeField`): Auto-generated timestamp indicating when the product was created.

Model: `Case` 🔗

Represents a dental case submitted for processing.

Fields: 🔗

- **case_number** (`CharField`): Unique identifier for the case. If left blank, it is auto-generated as `CASE-00001`, `CASE-00002`, etc.
- **patient_name** (`CharField`): Name of the patient. Maximum length: 255 characters.
- **account_number** (`CharField`): Associated account number. Maximum length: 50 characters.
- **dentist_name** (`CharField`, optional): Name of the dentist. Can be null or blank.
- **dentistry_type** (`CharField`, optional): Specifies the type of dentistry. Choices:
  - "restoration" (default)
  - "orthodontics"
- **tooth_numbers** (`JSONField`): Stores tooth numbers as a list.
- **shade_system** (`CharField`): Defines the shade system used. Default: "VITA".

- **shade** (`CharField`): Defines the shade value. Default: "A1".
- **notes** (`TextField`, optional): Additional notes related to the case.
- **created_at** (`DateTimeField`): Auto-generated timestamp when the case was created.

Methods: 🔗

- **save()**:
  - If `case_number` is not provided, it auto-generates a unique case number in the format `CASE-XXXXX`, where `XXXXX` is an incrementing integer.
  - Calls `super().save(*args, **kwargs)` to ensure the case is saved properly.
- **str()**:
  - Returns a string representation of the case in the format: `CASE-XXXXX - Patient Name`.

Notes: 🔗

- The `Case` model includes an auto-generated `case_number` based on the latest case ID.
- The `dentistry_type` field supports predefined choices and defaults to "restoration".
- `JSONField` is used for `tooth_numbers` to allow flexible storage of multiple values.

This documentation serves as a reference for understanding the models and their attributes in the Django application.