

Cases and Case Services

Represents a dental case submitted for processing, which may be assigned to an in-house or outsourced designer.

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".
- **material** (CharField): Type of material used (e.g., Zirconia, Emax, PMMA).
- **case_type** (CharField): Type of case (e.g., Crown, Bridge, Implant).
- **attachments** (FileField): Stores uploaded files like STL, DCM, PDFs.
- **notes** (TextField , optional): Additional notes related to the case.
- **due_date** (DateField): Expected completion date.

Assignment & Workflow:

- **status** (CharField): Tracks workflow state:
 - New
 - In Progress
 - Pending Approval
 - Completed
 - Sent to Outsource
- **assigned_designer** (ForeignKey to User , optional): Links to an in-house designer in the system.
- **is_outsourced** (BooleanField): Indicates if the case is outsourced.
- **outsourced_to** (CharField , optional): Stores details of the external designer or lab handling the case.
- **approval_status** (CharField): Tracks doctor/lab manager approvals.
- **redo_count** (IntegerField): Number of remakes requested.
- **adjustment_notes** (TextField , optional): Tracks modifications or adjustments requested.
- **delivery_status** (CharField): Tracks if the case has been shipped.

Timestamps & Tracking:

- **created_at** (DateTimeField): Auto-generated when the case is created.
- **updated_at** (DateTimeField): Auto-updated on any modification.
- **completed_at** (DateTimeField , optional): Auto-generated when marked as completed.

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`.
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Case Services (`app/services.py`) [↗](#)

`cases(request)` [↗](#)

- **Purpose:** Renders the cases page.
- **Method:** GET
- **Response:** HTML page rendering `app/cases.html`.

`list_cases_service(request)` [↗](#)

- **Purpose:** Retrieves a list of all cases.
- **Method:** GET
- **Response:** JSON object with a list of cases.

`fetch_cases_service(request)` [↗](#)

- **Purpose:** Fetches all cases from the database.
- **Method:** GET
- **Response:** JSON object with case data.

`search_cases_service(request)` [↗](#)

- **Purpose:** Searches for cases based on a query string.
- **Method:** GET
- **Query Parameters:**
 - `query`: Search string used to filter cases.
- **Response:**
 - JSON object containing matching cases or an error if no query is provided.

`create_case_service(request)` [↗](#)

- **Purpose:** Creates a new case from the provided JSON data.
- **Method:** POST
- **Request Body:**
 - {
 "patient_name": "John Doe",
 "patient_code": "12345",
 "dentist_name": "Dr. Smith",
 "dentistry_type": "restoration",
 "tooth_numbers": ["12", "14"],
 "shade_system": "VITA",
 "shade": "A2",

```
"notes": "Urgent case"
}
```

- **Response:**

- Success: JSON with case ID.
- Failure: JSON with error message.

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.
- Workflow attributes ensure cases can be properly assigned and tracked.
- Services provide efficient JSON responses to interact with cases via APIs.