To-Do List Project (Django)

A To-Do List web application with RESTful APIs and Bootstrap-based web interface.
Built using Django with raw SQL queries (no ORM) as per requirements.

Features

1. Add, view, update, and delete tasks
2. RESTful API endpoints for CRUD operations
3. Bootstrap web interface for user-friendly interaction
4. Validations for required fields & correct date format (YYYY-MM-DD)
5. Default task status set to Pending
6. Separate apps for API and Web Interface
7. SQLite database for storage

Setup Instructions

1.Clone Repository

```
git clone https://github.com/DILIP3524/todoapp.git

cd todoapp
```

2.Create Virtual Environmnt

```
python -m venv venv

source venv/bin/activate (Linux/Mac)

venv\Scripts\activate (Windows)
```

3.Install Dependencies

pip install -r requirements.txt

Start Server

python manage.py runserver

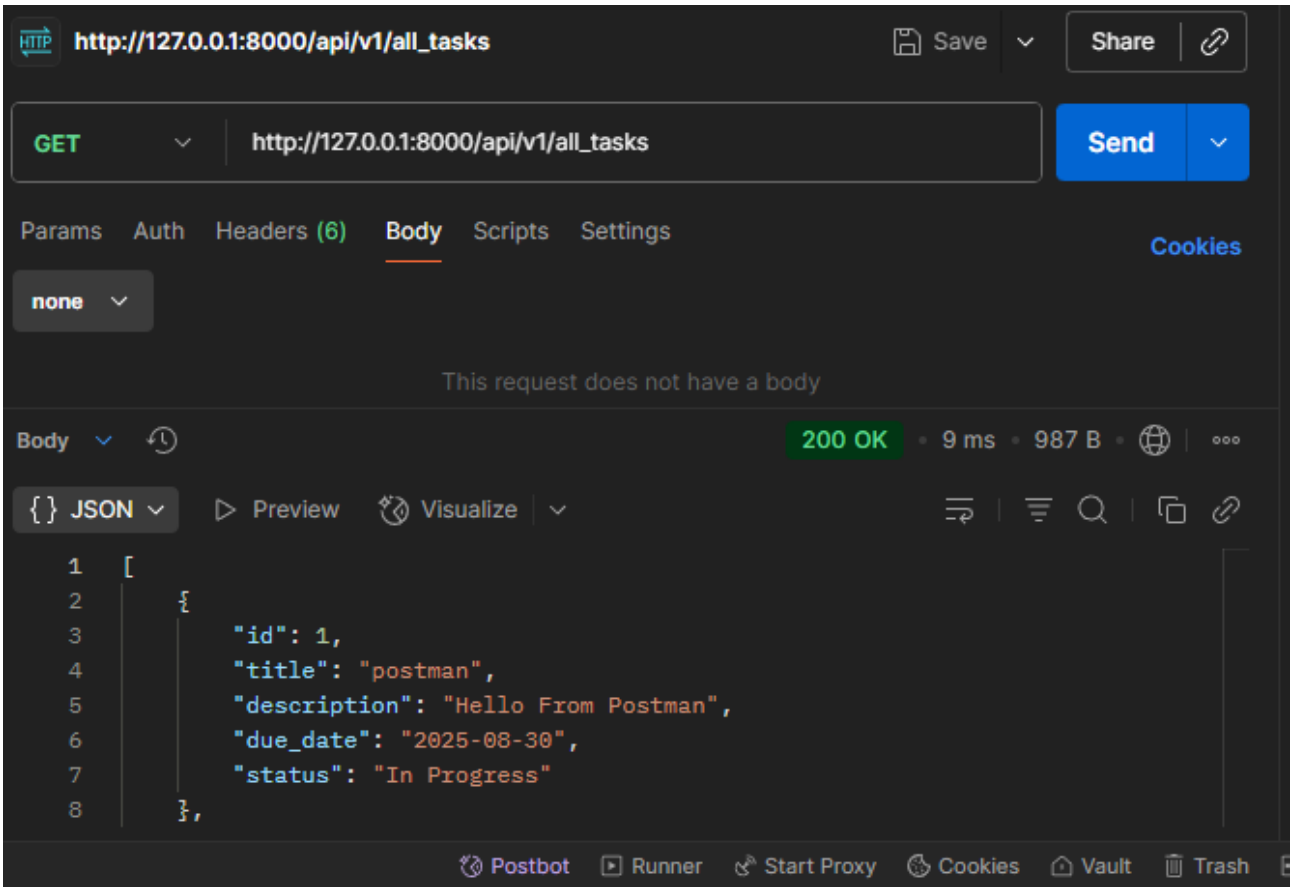
The project will be live at: http://127.0.0.1:8000/

API Endpoints

Get All Tasks

Endpoint :- GET /api/v1/all_tasks/

Response :-



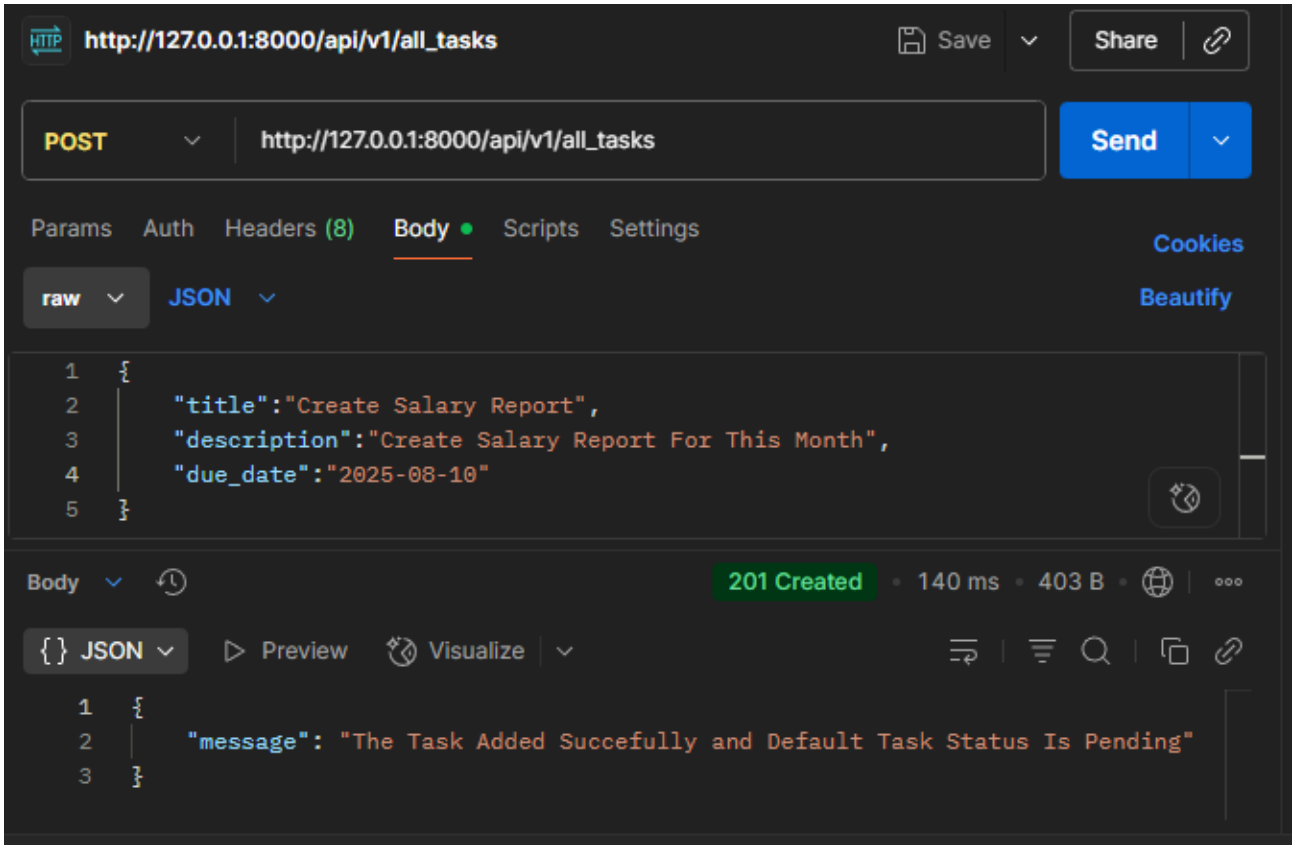
Create a Task

Endpoint :- POST /api/v1/all_tasks/

```
Body: {
"title": "Task",
 "description": "Details",
"due_date": "2025-08-15"

 }
```

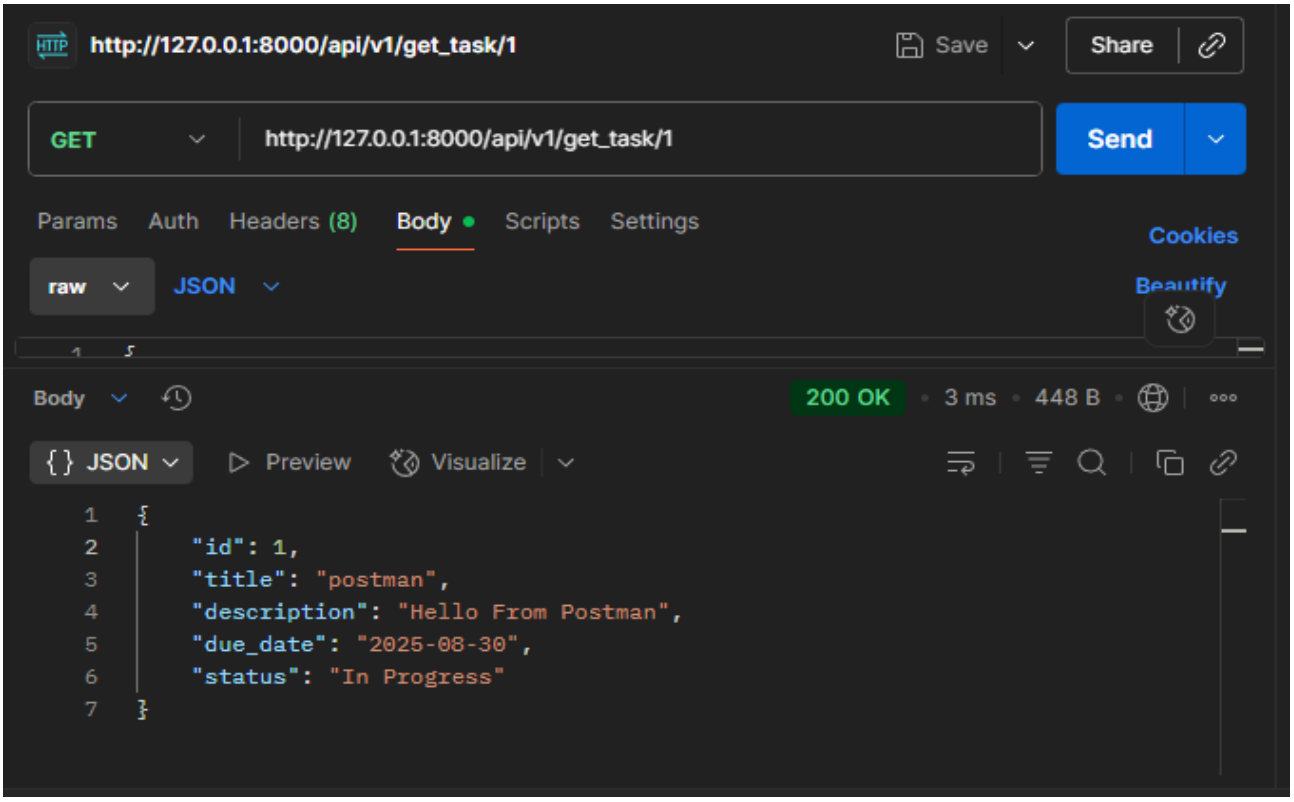
Response:-



Get Single Task

Endpoint :- GET /api/v1/get_task/<pk>/

Response:-



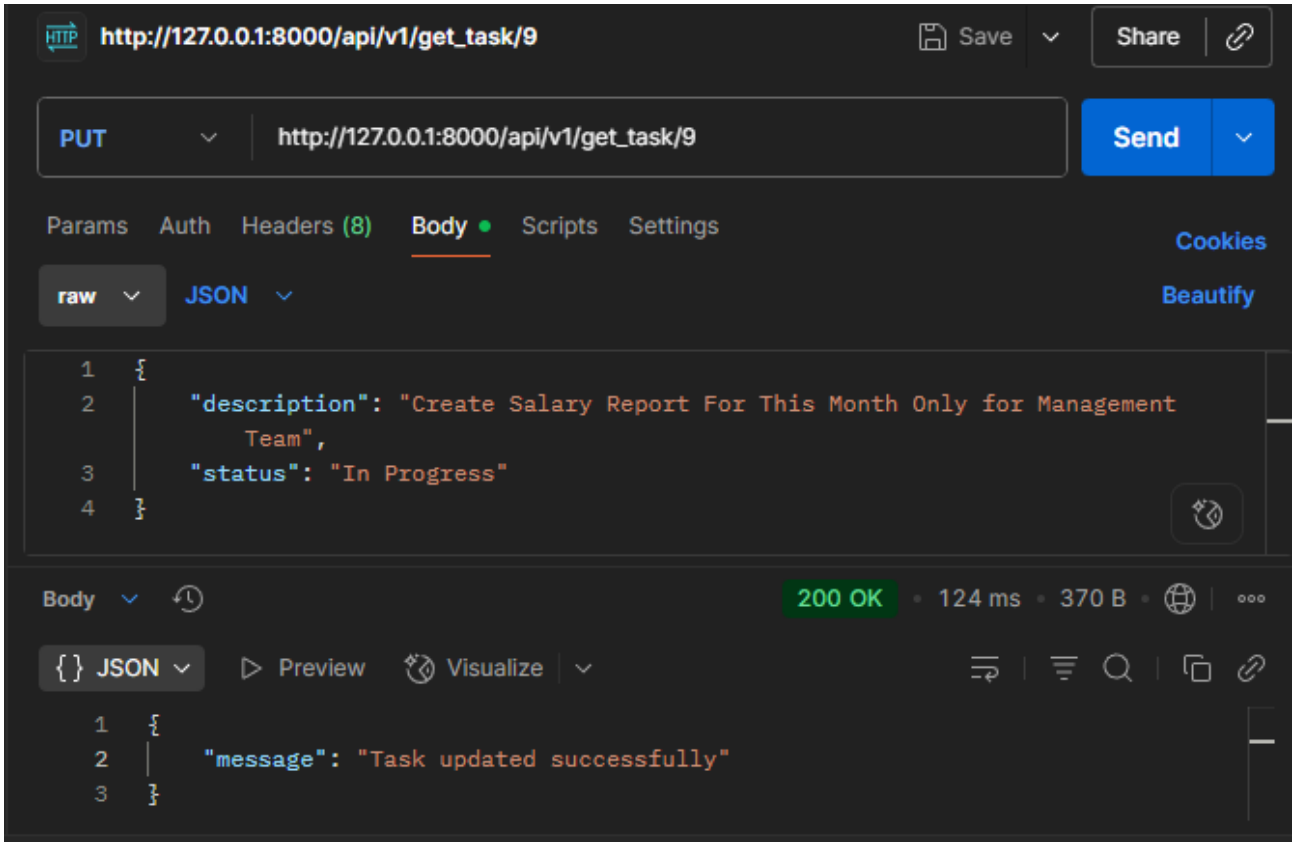
Update a Task

Endpoint :- PUT /api/v1/get_tasks/<pk>/

```
Body: {

"description": "Create Salary Report For This Month Only for Management Team",
 "status": "In Progress"
 }
```

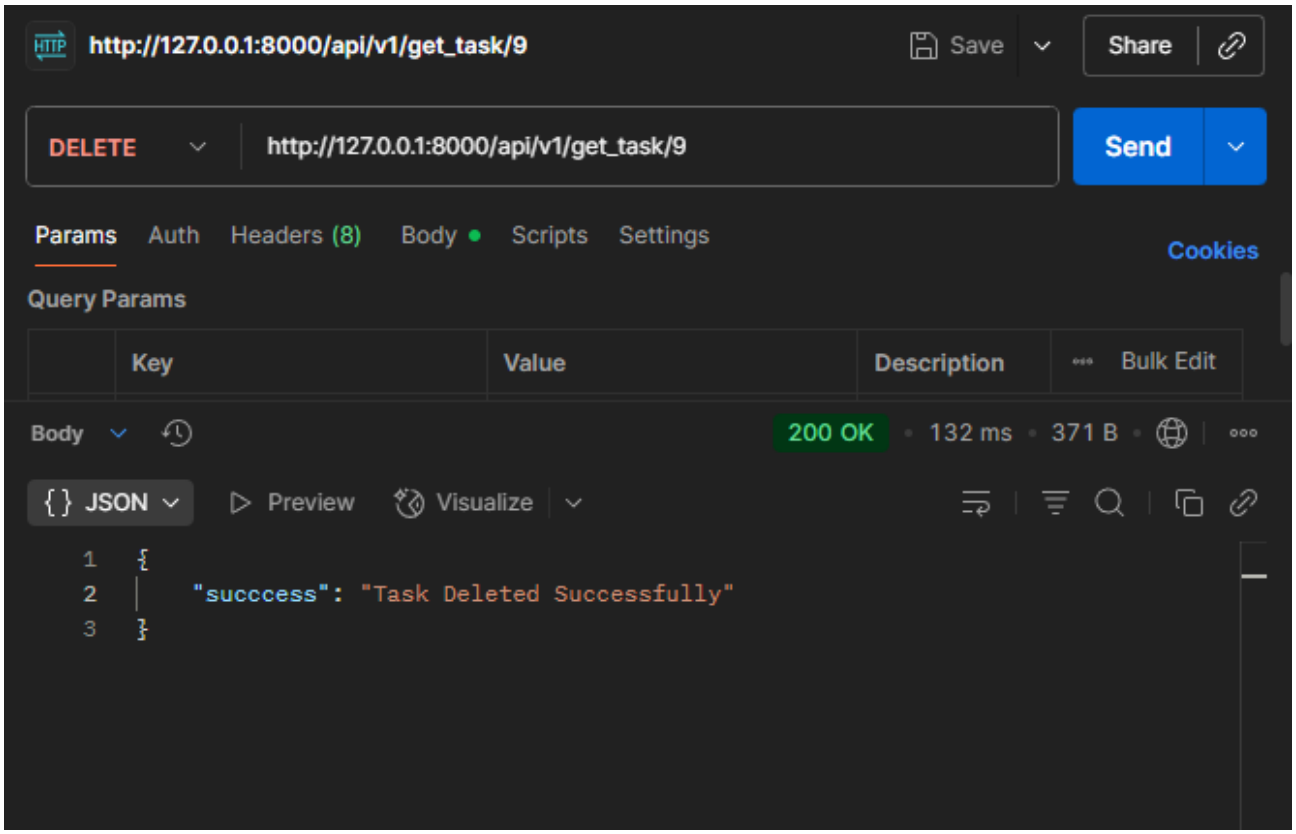
Response:-



Delete a Task

Endpoint :- DELETE /api/v1/get_tasks/<pk>/

Response:-



Web Interface

Navigate to:- http://127.0.0.1:8000/

Add tasks via form

View tasks in a table

Update or delete tasks

Tech Stack

Backend: Django 5, Python 3

Database: SQLite

Frontend: Bootstrap 5

Testing: Django Test Client / Pytest

Version Control: Git

Testing

Run All Tests:- *pytest*

Tests cover task creation, validation, retrieval, update, and deletion.