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Task Management Application - Svelte + Django REST

Author

• Alesia Hajrulla

All development was completed independently. The project required approximately 25–30 hours of work, covering backend, frontend, testing, and integration.

Project Overview

This full-stack application allows users to manage tasks with a simple and intuitive interface. It supports:

- · Adding, editing, and deleting tasks
- · Marking tasks as done or to do
- · Searching and filtering tasks
- Paginated view for better UX

The backend is built using **Django REST Framework**, while the frontend uses **Svelte** with **Tailwind CSS**.

Functionalities

- V Create a task
- Z Edit or delete an existing task
- Toggle task status: To Do

 → Done
- V Filter by status (All, To Do, Done)
- Search by task title
- View tasks across pages with pagination

Backend: Django REST

- API developed with Django 5.2 and Django REST Framework
- SQLite3 used as local database
- · CORS enabled to allow frontend access
- All API endpoints are public (no login/auth)
- Pagination implemented using PageNumberPagination

How to Run (Backend)

```
cd taskmanager
python3 -m venv venv
source venv/bin/activate
pip install -r requirements.txt
python manage.py migrate
python manage.py runserver
```

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API base URL: http://localhost:8000/api/tasks/

Custom search endpoint: http://localhost:8000/api/tasks/search/ (POST)

Frontend: Svelte + Tailwind CSS

- User-friendly interface using Svelte
- Live search and dropdown filter
- Modal form for task creation/editing
- Pagination component fixed at the bottom

How to Run (Frontend)

```
cd task-frontend
npm install
npm run dev
```

App will run at: http://localhost:5173/

Make sure the backend is running at localhost: 8000.

Code Structure

```
project-root/
                          # Backend Django API
  - taskmanager/
                          # Django app (models, views, serializers)
     — tasks/
      - db.sqlite3
                          # Local database
      — manage.py
      requirements.txt
  - task-frontend/
                          # Frontend Svelte app
     — src/components/ # TaskTable.svelte, TaskForm.svelte
                         # Svelte store for tasks
      – src/stores.js
      – package.json
     — App.svelte
                          # Main application UI
```

Notes

- This project is meant for **local development** and **demonstration**.
- No authentication or user-specific filtering is implemented.
- You can reset the database anytime using:

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rm db.sqlite3
python manage.py migrate

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