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BSIT-IT3R1

Technologies Used

Frontend: React (Vite), Axios

Backend: FastAPI, SQLAlchemy, SQLite –

Deployment: Netlify (frontend), Render (backend)

Difference Between DRF and FastAPI

Feature	FASTAPI	Django Rest Framework
Language	Python	Django (built on Python)
Performance	Faster with async support	Slower
Learning Curve	Easier Syntax	Steeper
Auto Docs	Built-in Swagger & Redoc	Needs Setup
Best Use Case	APIs, microservices	Large Applications
Data Validation	Pydantic Models	Django Models + Serializers

Challenges Faced and Solutions

1. CORS Error

- Problem: React frontend couldn't connect to FastAPI backend on Render.
- Solution: Added proper https:// CORS origin in FastAPI's middleware

 2. Deployment Delays on Render

- Problem: Render sometimes took time to deploy changes.
- Solution: Waited for build logs to finish before testing

3. Frontend not updating on task add

- Problem: Task wouldn't appear after adding
- Solution: Confirmed POST format, ensured backend returns correct response, re-fetched task list.

The project successfully demonstrates full-stack development skills using FastAPI and React. All features were implemented and deployed, with real-time CRUD functionality and responsive UI/UX