

## Summary Report of Work Completed on Day 16

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### 1. Study of REST APIs for Frontend-Backend Connection:

- Learned RESTful API principles (HTTP methods, CRUD operations) and how they facilitate frontend-backend communication.
- Built simple APIs using Flask/Django and learned how to handle requests and return JSON responses.
- Explored frontend integration through asynchronous requests (AJAX/Fetch) to dynamically update the UI.
- Studied API security using authentication methods like tokens or OAuth.

### 2. Study of Django Framework:

- Explored Django's MTV architecture and learned to define models, views, and templates.
- Familiarized with Django REST Framework (DRF) to build APIs, including serializers and views.
- Learned Django's ORM for seamless database interaction.
- Tested and debugged API endpoints for smooth operation.

This study enhanced my understanding of connecting frontend and backend using REST APIs and Django, focusing on creating efficient, secure APIs.