Month 2: Web Development with Django

Overview
Comprehensive Django training covering theory, hands-on practice, and a real-world Social Media Platform project.

Theory Concepts

- Django framework and MTV architecture
- Models, Views, Templates structure
- Django ORM and database operations
- User authentication and authorization
- Forms and validation in Django
- Django admin interface

Hands-On Practice

- Build multiple Django applications
- Create complex data models with relationships
- Implement user registration and login systems
- Build RESTful APIs with Django REST Framework
- Create custom admin interfaces
- Deploy Django applications

Project: Complete Social Media Platform

- User profiles, posts, comments, likes, friends, and real-time notifications

Technical Requirements

- User profile extension
- Post model with media uploads
- Comment and Like systems
- Friend request and following system
- WebSocket-based notifications
- REST API integration
- Responsive frontend with Bootstrap
- Search, privacy, and moderation features

Weekly Plan

- Week 1: Project setup & authentication
- Week 2: Posts, comments, likes
- Week 3: Friends, following, notifications
- Week 4: Real-time updates, search, privacy
- Week 5: Frontend & REST API
- Week 6: Deployment & testing