SCRUM

1 SCRUM Sprint Planning

Sprint 1 (Weeks 1-2): Backend Infrastructure & Authentication

- Setup FastAPI & Database
- Implement User Registration & Authentication
- Implement JWT-based Authorization
- Setup API Documentation (Swagger)
- Database Schema Design

Sprint 2 (Weeks 3-4): User & Course Management

- Implement Degree & Course Listing APIs
- Implement User Profile Management APIs
- Implement Course Selection & Query APIs

Sprint 3 (Weeks 5-6): Ratings & Reviews System

- Implement Course Rating & Review Submission APIs
- Implement Review Editing & Deletion
- Implement Review Moderation by Admin

Sprint 4 (Weeks 7-8): Notes & Material Sharing

- Implement Note Upload & Management APIs
- Implement Note Rating System
- Implement Reporting System for Inappropriate Content

Sprint 5 (Weeks 9-10): Admin Panel & Moderation Tools

- Implement Admin Login & Authentication
- Implement User Management (View/Delete)

- Implement Report Handling APIs

- Implement Course/Teacher Management APIs

Sprint 6 (Weeks 11-12): Frontend Setup & Basic UI

- Setup React Project Structure

- Implement User Authentication UI

- Implement Course Browsing UI

- Implement Review & Rating UI

Sprint 7 (Weeks 13-14): Advanced Frontend Features

- Implement Note Uploading & Rating UI

- Implement User Profile UI

- Implement Admin Dashboard UI

Sprint 8 (Weeks 15-16): Testing, Optimization & Deployment

- Backend & Frontend Integration Testing

- Performance Optimization

- Deployment & Documentation

Conclusion

This plan ensures that the backend is fully functional before starting frontend development, while also allowing for progressive feature implementation and testing.