E-Books Project – Backend Roadmap (FastAPI)

Deadline: 23 Jan 2026

Day 1: Project Setup & Database

- FastAPI project setup
- Environment configuration (.env)
- Database connection (SQLAlchemy)
- Basic health-check API

Day 2: User Model & CRUD

- User model & schema
- Password hashing
- Create & fetch user logic

Day 3: Authentication (JWT)

- JWT access & refresh tokens
- Token validation dependency
- Protected route testing

Day 4: Registration + OTP

- User registration API
- OTP generation & expiry
- OTP verification API

Day 5: Login & Security

- Login API
- Verified-user validation
- Error handling for auth

Day 6: E-Books CRUD

- E-Book model & schema
- Create / Read / Update / Delete APIs
- User ownership validation

Day 7: Frontend Integration

- CORS configuration

- React–FastAPI integration
- Token handling from frontend

Day 8: Testing & Final Cleanup

- End-to-end testing
- Code cleanup & optimization
- Final demo preparation