

Project Planning & Management

Project Proposal

Overview:

Lexicon is an online bookstore designed to provide users with a seamless book-browsing and purchasing experience. The website will feature a user-friendly interface, a robust book catalog, a shopping cart, secure checkout, and an admin panel for inventory management.

Objectives:

- Provide a seamless online book shopping experience.
- Implement secure payment gateways for transactions.
- Offer personalized recommendations based on user preferences.

Scope:

- User authentication (login, registration).
- Book catalog with search & filters.
- Shopping cart & checkout system.
- Admin panel for inventory management.
- Payment gateway integration.
- User reviews & recommendations.

Project Plan

Timeline & Milestones:

- Requirement Analysis & Planning: Mar 21 - Mar 28
- UI/UX Design & Wireframing: Mar 29 - Apr 8
- Frontend & Backend Development: Apr 9 - Apr 29
- Database & API Implementation: Apr 30 - May 13
- Payment Gateway Integration: May 14 - May 20
- Testing & Debugging: May 21 - May 30
- Deployment & Maintenance: May 31 - Jun 5

Deliverables:

- Fully functional e-commerce website for books.
- Secure payment integration.
- Admin panel for inventory and user management.
- Performance reports and testing documentation.

Task Assignment & Roles

- Marvel Reda - LINQ
- Merna Hany - SQL
- Roaa Atif - C#
- Amira Ashraf - Frontend Development
- Ala Samir - MVC

Risk Assessment & Mitigation Plan

Potential Risks & Solutions:

1. Security threats (High) - Implement SSL, secure authentication, and data encryption.
2. Performance issues (Medium) - Optimize database queries, caching mechanisms.
3. Payment failures (High) - Use reliable payment gateways and transaction logging.
4. Scope creep (High) - Define clear deliverables and track changes using Agile methodology.

Key Performance Indicators (KPIs)

Success Metrics:

- Response Time: Ensure page loads under 2 seconds.
- System Uptime: Maintain 99.9% availability.
- User Adoption Rate: Gain at least 100 active users within the first month.
- Conversion Rate: Achieve a minimum of 5% conversion rate (visitors making purchases).
- Customer Satisfaction: Collect feedback through surveys and target 80%+ positive reviews.
- Bug Resolution Time: Fix reported issues within 48 hours.
- Checkout Success Rate: Ensure at least 95% of initiated purchases are completed successfully.