

E-book library management system

1. System Overview

System type: Web-based E-Book Library Management System.

Main user roles: Admin

Publisher

Reader

2. User Roles and Permissions

2.1 Admin

Admin කෙනාට තියෙන main responsibilities:

- User management:
 - Publishers / Readers registration requests view & approve/reject.
 - User accounts activate/deactivate, update basic info.
- Subscription management:
 - Subscription packages (monthly/yearly) create/update (price, duration, description).
 - Reader payment history, active/inactive subscriptions view.
- E-book management:
 - All e-books list view (including publisher, status, publish date).
 - Inappropriate content review & block/unpublish if needed.
- System configuration:
 - General settings (logo, name, contact info, terms & conditions).
 - Reports & analytics (total users, active readers, revenue summaries, top publishers/books).

2.2 Publisher

Publisher කෙනා verified උනාට පස්සේ:

- Profile:
- Personal/organization details update (name, bio, logo, contact).
- E-book management:
- New e-book upload (title, author, description, category, language, price = 0 or included in subscription, cover image, file link (Drive link)).
- Own e-books edit/update (metadata, file replace).
- Own e-books publish/unpublish.
- Own e-books stats view (views, reads, favorites, ratings – if implemented).
- Reading: As a user, පොත් කියවන්න ද පුළුවන් (same as Reader).

2.3 Reader

Reader userට:

- Registration & profile:
- Account create, login, password reset.
- Profile details update.
- Subscription:
 - Package select (monthly Rs. 500 / yearly Rs. 5000).
 - Online payment (assume payment gateway integration – Pay Hear).
 - Subscription status view (active, expiry date, payment history).
- E-book usage:
 - E-book catalog browse/search/filter.
 - E-books read online (web reader).
 - Books add to favorites / reading list (optional feature).
- Restrictions:
 - Subscription active නැත්නම් paid library content read කරන්න බැහැ (only maybe free sample / preview).

3. Subscription Model Requirements

- Package types:

- Monthly subscription:
- Fee: Rs. 500.
- Validity: 30 days (or 1 month) from payment date.
- Yearly subscription:
- Fee: Rs. 5000 (Rs. 1000 discount vs 12×500).
- Validity: 365 days (or 12 months) from payment date.

- Behavior:

- System එකට subscription expiry auto-calculate වෙනත් ඕන.
- Subscription expired වුනාම, Readerට new payment කරන්න prompt කරන්න.
- Multiple renewals history maintain කරන්න.
- Future scope (inform developers):
- Auto-renewal (recurring payments) support.
- Pro-rated upgrade/downgrade monthly ↔ yearly.

4. Authentication and Authorization (Registration and Login)

- Authentication:

- Email-based registration + password.
- Email verification (optional but recommended).
- Password reset via email.

- Authorization (RBAC – Role Based Access Control):

- Each user account එකට assigned role: Admin / Publisher / Reader.
- Permissions strictly controlled by role (no direct permission per user).
- Middleware/filters check role before accessing each module (Admin panel, Publisher dashboard, Reader dashboard).