

# **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 දූෂ්‍රත්වන් (same as Reader).

## **2.3 Reader**

Reader user ලේ:

- 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 නැත්හම් paid library content read කරන්න බැඟී (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  $12 \times 500$ ).
  - Validity: 365 days (or 12 months) from payment date.
- Behavior:
  - System එකට subscription expiry auto-calculate වෙන්න 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).