BLUE INK HOUSE — SDE INTERN ASSIGNMENT

Objective:

Develop a lightweight Author & Book Management Platform for Blue Ink House. The system should allow creation and approval of authors, addition and listing of books, and a searchable catalog. You must design clean APIs, a basic frontend interface, and maintain clear documentation.

Initial Setup:

1. Set up a development environment using any stack (MERN, Spring Boot, Django/Flask, Next.js, Firebase, etc.).

2. Familiarize yourself with REST APIs, CRUD operations, form validation, and Git.

Core Requirements:

1. Author Management Module

- Create Author with: name, email, bio, profile_image_url, status="pending".

- Approve Author: "pending" → "approved".

- List Authors: include name, status, email, number_of_books.

2. Book Management Module

- Add Book: title, description, genre, cover_image_url, author_id (only if author approved).

- List Books.

- Search Books by title, genre, author name.

3. Platform Features

- Frontend pages: Add Author, Add Book, Author List, Book List with search.

- Backend: Clean architecture, validation, error handling.

Data Models:

Author: id, name, email, bio, profile_image_url, status, created_at

Book: id, title, description, genre, cover_image_url, author_id, created_at

APIs:

POST /authors

GET /authors

PATCH /authors/:id/approve

POST /books

GET /books

GET /books/search

Technical Requirements:

- Modern stack, persistent DB, error handling, logging, unit tests, clean structure.

Bonus Section:

- JWT Auth, Pagination, File Uploads, Deployment, Dashboard Analytics.

Documentation Requirements:

- Architecture, API spec, screenshots, demo video, design decisions.

Deliverables:

- GitHub repository, README, demo video, documentation.

- Optional:privately deployed link & bonus features.

Submission Instructions:

Email to: hr@blueinkhouse.com

Subject: SDE Intern Assignment – Blue Ink House

Attach: Resume, GitHub link, video demo, documentation.

Confidentiality Notice: