

Government Polytechnic Awasari(kh)

Departmental Library-(Computer Engg.)

- **Features:**

1 Student Management

A complete module to maintain all student records efficiently.

✓ Add, Edit, Delete Students

- Store Enrollment No, Name, Phone, Email, Department, Year.
- Prevents duplicate enrollments.

✓ Bulk Import via Excel

- Supports flexible column names
- Auto-mapping of columns
- Helps in adding 50–500+ students instantly.

✓ Search & Filters

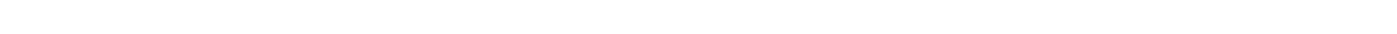
- Filter by Year (1st/2nd/3rd/Pass Out)
- Real-time search by name/enrollment.

✓ Year-wise Promotion

- One-click promote:
1st → 2nd → 3rd → Pass-Out
- Auto-updates academic year data.
- Maintains promotion history.

✓ Pass-Out Handling

- Graduated students automatically marked as **Pass Out**
- System blocks them from borrowing books.



Book Management

Everything required to maintain a structured digital library.

✓ Add, Edit, Delete Books

- Title, Author, ISBN, Category
- Total copies + auto-calculated available copies.

✓ Smart Copy Management

- Prevents deletion if issued copies exist
- Alerts when copies are insufficient.

✓ Bulk Import via Excel

- Import large book datasets at once
- Accepts both human & machine style column names.

✓ Category Organization

- Programming
- Networking
- Web Development
- Database
- AI/ML
- Operating Systems
- Project Guides
- And more...

✓ Auto-Generated Book IDs

Ensures consistency and prevents ID duplication.

Transaction System (Issue & Return)

Automates the most essential library operations.

✓ Issue Books

- Default 7-day issue period
- Custom due date selection
- Validates:
 - Student exists

- Book is available
- Student is not Pass-Out

✓ Return Books

- Calculates overdue duration
- Computes fine automatically (₹5/day)
- Updates book availability instantly.

✓ Prevent Borrowing Errors

- Pass-Out students cannot borrow
- Books with zero availability are blocked
- Invalid entries show clear warnings.

✓ Full Transaction History

- Borrowed
- Returned
- Overdue
- All events stored year-wise.

4 Overdue Management & Automated Emails

A fully intelligent email-based overdue system.

✓ Daily Auto Reminder (9 AM)

- Sends reminder emails **2 days before due date**
- Background email scheduler runs automatically.

✓ Overdue Letters (Word Document)

- Generate professional notices and sent to the students **automatically**
- Contains student details, book details, overdue days & fine.

✓ Bulk Overdue Emails

- **Automatically send overdue emails to all pending students**
- Shows success/failure log.

✓ Email Attachments

- Includes overdue letter as a .docx file
- Uses Gmail App Password for secure SMTP login.

✓ Email History

- Tracks all emails
 - Timestamp + status (Success/Failed)
-

5 Analytics Dashboard

Modern graphical insight into library activities.

✓ Key Stats

- Total Students
- Total Books
- Active Loans
- Available Copies
- Fines Collected

✓ Top 10 Borrowers

Identifies students who issue the most books.

✓ Most Popular Books

Based on past borrowing trends.

✓ Borrowing Trends Over Time

Line charts showing monthly/yearly usage.

✓ Category-wise Distribution

Pie/donut charts showing category popularity.

✓ Export Analytics

- Export to Excel
 - Export to Word (with charts)
-

6 Academic Year Management

✓ Create & Switch Academic Years

- e.g., 2024–2025 → 2025–2026
- Maintains separate year-wise data.

✓ Student Promotion

- Auto-updates academic year for all students

- Tracks promotion history
- Includes Undo promotion option if wrong order used.

✓ Academic Year Indicator

Always shows the active academic year on UI.

7 Data Import & Export

✓ Excel Import

- Students (with flexible column names)
- Books (all fields supported)

✓ Excel Export

- Students
- Books
- Records
- Analytics

✓ Backup Database

- Full backup with one-file library.db
 - Easy USB storage and restoration.
-

8 Admin Panel Features

✓ Password Management

- Change admin password
- Secure login system

✓ Email Configuration Wizard

- SMTP setup
- App password entry
- Test email functionality

✓ Promotion Management

- Promote/Undo promote
- View promotion logs.

✓ System Controls

- Clear logs
 - Refresh UI
 - Reset view options
-

9 Advanced User Interface

✓ 7-tab Professional UI

- Dashboard
- Students
- Books
- Transactions
- Records
- Analysis
- Admin

✓ Real-Time Search

Automatically filters while typing.

✓ Date Picker Widgets

Easy selection of due dates and filters.

✓ Sortable Tables

All data tables are sortable by column.

✓ Double-Click Editing

Instant editing of student/book records.

10 Unique Capabilities (Standout Features)

✓ Single-File EXE

- No installation
- Zero configuration
- Works from USB
- Auto-creates database on first run.

✓ Background Scheduler

Runs email reminders without affecting UI.

✓ Smart Validations

- Duplicate student prevention
- Invalid date detection
- Book availability protection

✓ Fully Offline

- No internet required for main features
- Only email automation needs internet.

✓ Optimized for Department Workflow

Specifically built for Computer Department needs.

● Some Screenshots:-

● Log in page



● Desktop:-

Overview Cards

- Total Students - Count of all students in database
- Total Books - Count of unique book titles
- Available Books - Total copies available for borrowing
- Currently Issued - Active loans right now

- Total Fines Collected - Cumulative fine amount from all overdue returns

Recent Transactions

- Displays: Student name, book title, issue date, due date, status
- Quick view of library activity

Overdue Alerts

- Red-highlighted section showing overdue books
- Lists: Student, book, days overdue, fine amount
- Click to jump to Records tab for action

Quick Stats

- Books borrowed this week/month
- Most active borrowers
- Popular categories

The screenshot shows the GPA'S Library of Computer Department dashboard. At the top, there's a header bar with the library's logo, name, academic year (25-26), developer information, and email links. Below the header, a navigation menu includes Dashboard, Students, Books, Transactions, Records, and Analysis. The Dashboard section displays four key metrics: Total Books (45), Available Books (132), Issued Books (28), and Total Students (110). The 'Currently Issued Books' table lists 18 entries, each with Enrollment No., Student Name, Book ID, Book Name, Issue Date, Due Date, and Days Left. The table includes a header row and 18 data rows.

Enrollment No.	Student Name	Book ID	Book Name	Issue Date	Due Date	Days Left
24210270100	Atharv Verma	33	Python Machine Learning	2025-09-02	2025-09-09	-84
24210270080	Riya Kulkarni	34	Computer Networking: A Top-Down Approach	2025-09-08	2025-09-15	-78
24210270022	Sara Khan	31	Pattern Recognition and Machine Learning	2025-09-17	2025-09-24	-69
24210270075	Sai Reddy	24	RESTful Web APIs	2025-09-20	2025-09-27	-66
24210270082	Rhea Bhatt	7	Computer Organization and Design	2025-09-24	2025-10-01	-62
24210270020	Rhea Pandey	15	Design Patterns	2025-09-26	2025-10-03	-60
24210270038	Parth Bhatt	19	HTML and CSS: Design and Build Websites	2025-09-26	2025-10-03	-60
24210270041	Saanvi Khan	5	Data Structures and Algorithms	2025-09-29	2025-10-06	-57
24210270082	Rhea Bhatt	43	Research Methodology	2025-10-01	2025-10-08	-55
24210270046	Vivaan Roy	7	Computer Organization and Design	2025-10-06	2025-10-13	-50
24210270010	Vivaan Desai	14	JavaScript: The Good Parts	2025-10-08	2025-10-15	-48
24210270098	Anika Nair	4	Database System Concepts	2025-10-11	2025-10-18	-45
24210270064	Aayush Saxena	16	The Pragmatic Programmer	2025-10-15	2025-10-22	-41
24210270042	Harsh Iyer	44	Competitive Programming 3	2025-10-17	2025-10-24	-39

• Student tab

The screenshot shows the 'Students' tab selected in the navigation bar. At the top, there's a search/filter bar with fields for 'Search:' and 'Year: All'. To the right of the search bar are buttons for 'Actions', '+ Add Student', and 'Import Excel'. Below the search bar is a table titled 'Students List' with columns: Enrollment No, Name, Email, Phone, and Year. The table contains 20 rows of student data.

Enrollment No	Name	Email	Phone	Year
24210270107	Myra Pillai	myra.pillai@student.gpa.edu	9178548747	3rd Year
24210270106	Anika Chaudhary	anika.chaudhary@student.gpa.edu	9512255709	3rd Year
24210270105	Saanvi Kumar			3rd Year
24210270104	Arjun Trivedi	arjun.trivedi@student.gpa.edu		3rd Year
24210270103	Avni Kulkarni	avni.kulkarni@student.gpa.edu	9329782312	3rd Year
24210270102	Aryan Verma		9162618687	3rd Year
24210270101	Nidhi Khan		9337171391	3rd Year
24210270100	Atharv Verma	atharv.verma@student.gpa.edu	9458200426	3rd Year
24210270099	Isha Verma	isha.verma@student.gpa.edu	9149127901	3rd Year
24210270098	Anika Nair	anika.nair@student.gpa.edu		3rd Year
24210270097	Aadhya Pandey	aadhya.pandey@student.gpa.edu	9747782837	3rd Year
24210270096	Rudra Chopra	rudra.chopra@student.gpa.edu	9762487944	3rd Year
24210270095	Shanaya Thakur		9636639473	3rd Year
24210270094	Prisha Das	prisha.das@student.gpa.edu	9572164278	3rd Year
24210270093	Om Sen		9481498045	3rd Year

2. STUDENTS TAB

Add Student

- Button: Add Student
- Fields:
 - Enrollment No (required, unique)
 - Name (required)
 - Email (optional, needed for emails)
 - Phone (optional)
 - Department (defaults to "Computer")
 - Year (1st Year, 2nd Year, 3rd Year, Pass Out)
- Validation: Prevents duplicate enrollment numbers

View Students Table

- Columns: Enrollment No, Name, Email, Phone, Department, Year
- Sortable: Click column headers to sort

- Search: Real-time search by name or enrollment
- Filter by Year: Dropdown to filter (All/1st/2nd/3rd/Pass Out)

** Edit Student (Double-Click)

- Opens edit dialog
- **Editable:** Name, Email, Phone, Year
- **Read-only:** Enrollment No (primary key), Department
- **Buttons:**
 - Save Changes - Updates student
 - Delete - Removes student (warns if has active loans)
 - Cancel - Closes without saving

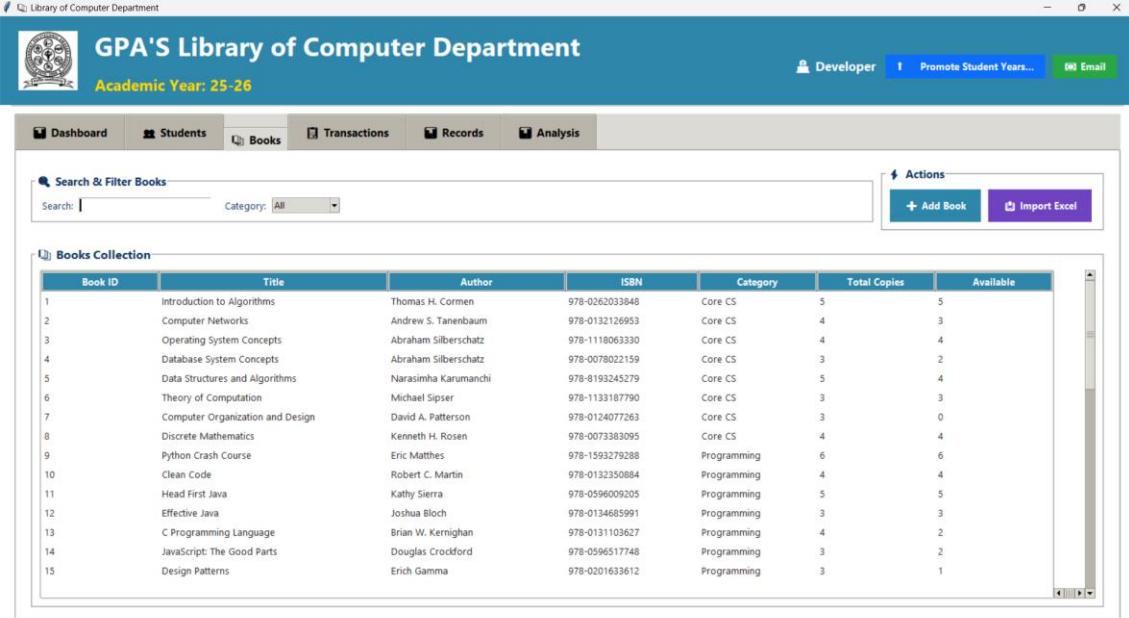
Import from Excel

- **Button:**  Import from Excel
- **Required columns:** Enrollment No | Name | Email | Phone | Department | Year
- **Features:**
 - Flexible column names (spaces/underscores, case-insensitive)
 - Validates data before import
 - Shows success/error counts
 - Skips duplicates automatically

Export to Excel

- **Button:**  Export to Excel
- Exports all students (or filtered view) to Excel
- Opens file automatically
- Includes all fields

● Books



The screenshot shows a software application window titled "GPA'S Library of Computer Department" with the subtitle "Academic Year: 25-26". The window has a top navigation bar with icons for Developer, Promote Student Years..., and Email. Below the title, there are tabs for Dashboard, Students, Books (which is selected), Transactions, Records, and Analysis. A search bar with placeholder "Search & Filter Books" and a dropdown for "Category: All" is visible. On the right, there are buttons for Actions, Add Book (with a plus sign icon), and Import Excel. The main content area displays a table titled "Books Collection" with 15 rows of data. The columns are: Book ID, Title, Author, ISBN, Category, Total Copies, and Available. The data includes various books like "Introduction to Algorithms", "Computer Networks", and "Design Patterns", categorized into Core CS and Programming.

Book ID	Title	Author	ISBN	Category	Total Copies	Available
1	Introduction to Algorithms	Thomas H. Cormen	978-0262033848	Core CS	5	5
2	Computer Networks	Andrew S. Tanenbaum	978-0132126953	Core CS	4	3
3	Operating System Concepts	Abraham Silberschatz	978-1118063330	Core CS	4	4
4	Database System Concepts	Abraham Silberschatz	978-0078022159	Core CS	3	2
5	Data Structures and Algorithms	Narashima Karumanchi	978-8193245279	Core CS	5	4
6	Theory of Computation	Michael Sipser	978-1133187790	Core CS	3	3
7	Computer Organization and Design	David A. Patterson	978-0124077263	Core CS	3	0
8	Discrete Mathematics	Kenneth H. Rosen	978-0073383095	Core CS	4	4
9	Python Crash Course	Eric Matthes	978-1593279288	Programming	6	6
10	Clean Code	Robert C. Martin	978-0132350884	Programming	4	4
11	Head First Java	Kathy Sierra	978-0596009205	Programming	5	5
12	Effective Java	Joshua Bloch	978-0134685991	Programming	3	3
13	C Programming Language	Brian W. Kernighan	978-0131103627	Programming	4	2
14	JavaScript: The Good Parts	Douglas Crockford	978-0596517748	Programming	3	2
15	Design Patterns	Erich Gamma	978-0201633612	Programming	3	1

- Add Book

- Button:  Add Book
- Fields:
 - Book ID (required, unique, e.g., "1" or "BK001")
 - Title (required)
 - Author (required)
 - ISBN (optional)
 - Category (dropdown with 15+ categories)
 - Total Copies (required, number)
 - Auto-calculates: Available Copies = Total - Borrowed
- View Books Table
- Columns: Book ID, Title, Author, ISBN, Category, Total Copies, Available Copies
- Color-coded:

- Green text = Books available
- Red text = All copies borrowed (0 available)
- Search: By title, author, or Book ID
- Filter by Category: Dropdown (All/Programming/Web Dev/AI-ML/etc.)
- Edit Book (Double-Click)
- Opens edit dialog
- Editable: Title, Author, ISBN, Category, Total Copies
- Read-only: Book ID (primary key), Available Copies (auto-calculated)
- Smart Validation: Prevents setting Total Copies less than currently borrowed
- Buttons:
 -  Save Changes - Updates book
 -  Delete - Removes book (warns if copies borrowed)
 -  Cancel - Closes without saving
- Import from Excel
 - Button:  Import from Excel
 - Required columns: Book ID | Title | Author | ISBN | Category | Total Copies
- Features:
 - Handles variations in column names
 - Validates unique Book IDs
 - Shows import summary
 - Export to Excel
 - Button:  Export to Excel
 - Exports all books with availability status

Add New Book

Book ID: Auto-generate Book ID

Title:

Author:

ISBN:

Category: ▾

Total Copies:

Save Book**Cancel****• Transaction:**

- Issue Book
- Button:  Issue Book
- Process:
 - Enter Student Enrollment Number
 - Validates student exists and is not "Pass Out"
- Enter Book ID
- Validates book exists and has available copies
- Select Due Date (default: 7 days from today)
- Click "Issue Book"
- Updates:
 - Decreases available copies by 1
 - Creates borrow record with issue date, due date

- Records academic year
- Validations:
 - Can't issue to Pass Out students
 - Can't issue if no copies available
 - Can't set due date in the past
- Return Book
 - Button:  Return Book
- Process:
 - Enter Student Enrollment Number
 - Enter Book ID
 - System finds active borrow record
 - Calculates overdue days (if any)
 - Calculates fine: $\text{overdue_days} \times ₹5$
 - Shows confirmation popup with fine amount
 - Click "Return Book"
- Updates:
 - Increases available copies by 1
 - Sets return date to today
 - Records fine amount
 - Updates borrow status to "Returned"
- Fine Calculation:
 - Due date: Jan 1, Return date: Jan 5 → 4 days overdue → ₹20 fine
 - On-time returns: ₹0 fine

- View Active Transactions
- Shows all currently borrowed books
- Columns: Student, Book, Issue Date, Due Date, Days Remaining
- Color-coded:
- Green = Due in 3+ days
- Yellow = Due in 1-2 days
- Red = Overdue
- Quick Actions: Double-click to return book

The screenshot shows a software application window titled "GPA'S Library of Computer Department". The main title bar also includes "Academic Year: 25-26". The top navigation bar has links for "Developer", "Promote Student Years...", and "Email". Below the navigation is a menu bar with "Dashboard", "Students", "Books", "Transactions", "Records", and "Analysis". The current page is "Issue Book".

The "Issue Book" form contains the following fields:

- Student Enrollment No:** An input field.
- Book ID:** An input field.
- Issue Date:** A date picker set to December 1, 2025.
- Due Date:** A date picker set to December 8, 2025.
- Issue Book**: A large blue button.
- Student Enrollment NO:** A placeholder text field.
- Book ID:** A placeholder text field.
- Return Date:** A date picker set to December 1, 2025.
- Return Book**: A green button.

● Record

View All Records

- Complete transaction history
- Columns:

- Record ID
- Student Name (Enrollment No)
- Book Title (Book ID)
- Issue Date
- Due Date
- Return Date
- Fine Amount
- Status (Borrowed/Returned/Overdue)

Filter by Status

- Dropdown: All / Borrowed / Returned / Overdue
- Borrowed = Currently issued (no return date)
- Returned = Returned on time or with fine
- Overdue = Borrowed + Past due date

Search Records

- Real-time search by:
 - Student name or enrollment
 - Book title
 - Date range

Generate Overdue Letter (Double-Click)

- For individual student:
 1. Double-click any overdue record
 2. Opens dialog: "Generate Overdue Letter?"
 3. Creates professional Word document with:
 - College logo
 - Student details

- Book details
- Fine amount
- Request to return

4. Saves to

Desktop: Overdue_Letter_[EnrollmentNo]_[Date].docx

5. If email configured + student has email:

- Sends email with letter attached
- Logs in Email History

Bulk Overdue Letters

- Button:  Overdue Letter (Word)
- Process:
 1. Finds all overdue students
 2. Shows count: "15 students have overdue books"

1. Options:

- Generate master Word doc (all students in one file)
- **Send individual emails to all (checkbox)**

2. If "Send emails" checked:

- Shows progress window
- Sends email to each student with valid email
- Skips students without email
- Shows summary: "12 sent, 3 failed"

3. Master document saved to Desktop

Export Records

- Button:  Export to Excel
- Exports filtered records (respects current filter/search)
- Includes all transaction details

The screenshot shows the GPA'S Library of Computer Department software interface. At the top, there's a header bar with the library name, academic year (25-26), developer information, and email links. Below the header is a navigation bar with tabs: Dashboard, Students, Books, Transactions, Records (which is selected), and Analysis. On the left, there's a search/filter section with fields for Search, Type (All), From Date, To Date, Academic Year (All), and buttons for Filter and Clear. There's also a Quick Filter section with options for Last 7 Days, Last 15 Days, and Last 30 Days. On the right, there's an Actions section with buttons for Export Records, Share Data, and Overdue Letter (Word). A tip message says: "Tip: Double-click on overdue student to send letter". The main content area displays a table titled "Complete Transaction Records" with columns: Enrollment No, Student Name, Book ID, Book Title, Issue Date, Due Date, Return Date, Status, and Fine. The table contains 15 rows of transaction data.

● ANALYSIS TAB

Time Period Filter

- Dropdown: Last 7 days / 15 days / 30 days / All Time
- Filters all charts and statistics

Chart 1: Issue Trends

- Type: Line chart
- X-axis: Date
- Y-axis: Number of books issued
- Shows: Borrowing patterns over time
- Insights: Identify busy periods (exam time, project season)

Chart 2: Top 10 Borrowers

Type: Horizontal bar chart

- Shows: Students who borrowed most books
- Data: Student name + borrow count
- Useful for: Identifying most active library users

Chart 3: Most Popular Books

- Type: Horizontal bar chart
- Shows: Books borrowed most frequently
- Data: Book title + times borrowed
- Useful for: Deciding which books to buy more copies of

Chart 4: Category Distribution

• **Type: Pie chart**

Shows: Percentage of books borrowed by category

- Categories: Programming, Web Dev, AI/ML, Database, etc.
- Insights: Understand student interests

Chart 5: Fine Collection

Type: Line chart

- X-axis: Date
- Y-axis: Fine amount (₹)
- Shows: Fines collected over time
- Useful for: Tracking revenue, identifying frequent offenders

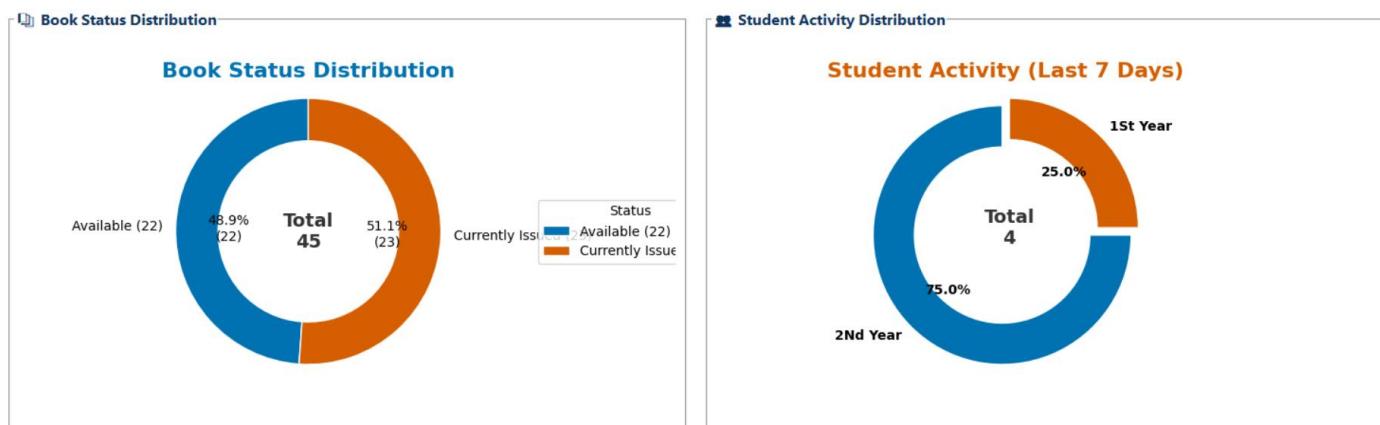
Statistics Summary

- Total books issued in period
- Total fines collected
- Average books per student
- Most active day/week
- Category popularity ranking

Export Analysis

- Button:  Export to Excel
- Exports:
 - All chart data in separate sheets
 - Summary statistics
 - Raw data tables
- Button:  Export to Word

- Creates professional report with:
 - Charts embedded as images
 - Statistics tables
 - Date range and insights



GPA'S Library of Computer Department
Academic Year: 25-26

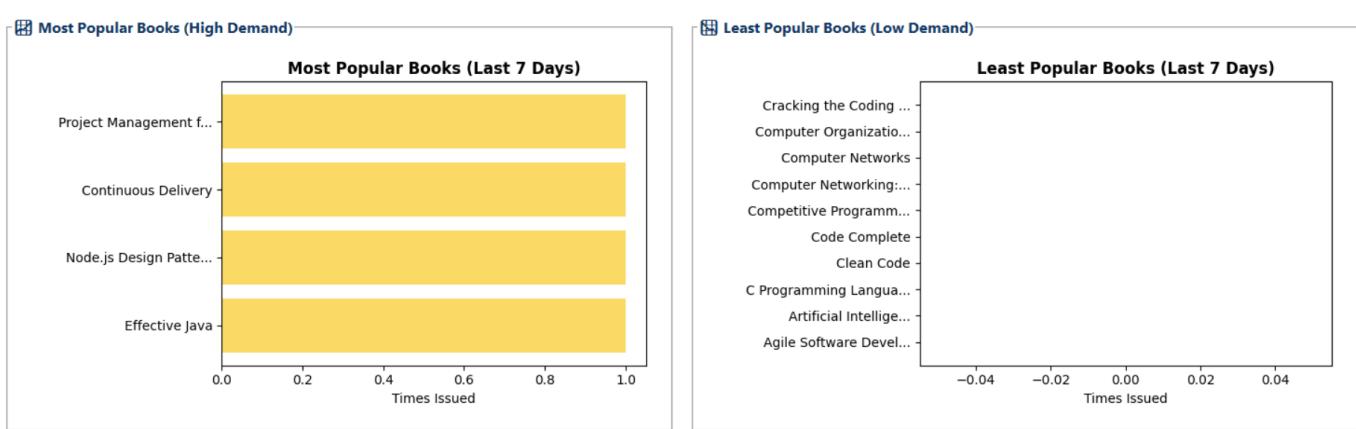
Developer Promote Student Years... Email

Dashboard Students Books Transactions Records Analysis

Details	Count	Percentage
Available	132	82.5%
On-time	1	0.6%
Overdue	27	16.9%

Summary Statistics

4 Total Borrowings	6 Total Returns	27 Currently Overdue	4 Active Students	₹40 Fines Collected (₹5/day)
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• ADMIN FUNCTIONS TAB

Promote Students

- Button: **⬆ Promote Student Years**
- Warning Dialog: Explains what will happen
- Process:
 1. Shows confirmation: "This will promote all students. Continue?"
 2. On confirm:
 - **3rd Year → Pass Out**
 - **2nd Year → 3rd Year**
 - **1st Year → 2nd Year**
 - Creates new academic year (e.g., 2024-25 → 2025-26)
 3. Logs promotion in history with timestamp
 4. Shows success message with counts
- **⚠ Critical Rule: Run AFTER importing new 1st year students!**
- **Promotion History**
- Table shows:
 - **Promotion date**
 - **Academic year created**
 - **Students promoted count**
 - **Previous year → New year**
- Used for: Audit trail, rollback reference
- **Change Password**

- **Button:** 🔑 **Change Password**
- **Fields:**
 - **Current Password (validation)**
 - **New Password**
 - **Confirm New Password**
- **Validation:**
 - **Must enter correct current password**
 - **New passwords must match**
 - **Minimum 4 characters**
- **Security:** Immediately effective, requires new password on next login
- **Academic Year Management**
- **Shows:** Current active year (e.g., "2024-2025")
- **Create New Year:**
 - **Manual creation option**
 - **Auto-created during promotion**
- **Switch Year:** Select from dropdown to view old data
- **Database Maintenance**
- **Button:** 🗃 **Backup Database**
- Copies library.db to Desktop with timestamp
- **Button:** 📈 **Database Statistics**
- **Shows:** Table sizes, record counts database file size

The screenshot shows two windows side-by-side.

Promote Student Years window:

- Header: Promote Student Years
- Text: This will promote: 1st→2nd, 2nd→3rd, 3rd→Pass Out
- Form fields:
 - Letter Number:
 - (Can contain letters, numbers, and symbols)
 - Academic Year:
 - (Suggested: 2026-2027 - You can type custom year)
- Buttons at the bottom: Promote Students (dark blue), Undo Last (orange), History (blue), Cancel (grey).

Promotion History window:

- Header: Promotion History
- Section: Promotion History Summary
- Table:

Letter Number	Date	Time	1st→2nd	2nd→3rd	3rd→Pass Out	Total Students
- Buttons at the bottom: Download History (dark blue), Close (grey).

Auto mail:-

Email Settings - Library Management System

Configuration **Email History**

Sent Email History

Track all overdue letters sent via email

Date/Time	Student Name	Enrollment No	Email Address
2025-12-01 18:01:05	Harsh Joshi	24210270057	harsh.joshi@student.gpa.edu
2025-12-01 18:01:00	Pari Thakur	24210270010	pari.thakur@student.gpa.edu
2025-12-01 18:00:56	Jiya Chopra	24210270040	jiya.chopra@student.gpa.edu
2025-12-01 18:00:51	Pranav Bose	24210270063	pranav.bose@student.gpa.edu
2025-12-01 18:00:47	Aadhya Kumar	24210270001	aadhya.kumar@student.gpa.edu
2025-12-01 18:00:42	Ishaan Kumar	24210270109	ishaan.kumar@student.gpa.edu
2025-12-01 18:00:37	Kiara Sinha	24210270052	kiara.sinha@student.gpa.edu
2025-12-01 17:58:49	Pari Thakur	24210270010	pari.thakur@student.gpa.edu

Refresh **Clear History**

Notice format:-



Government Polytechnic Awasari (Kh)
Departmental Library
Computer Department

Date: 2025-12-02
Ref: Library/Overdue/20251202

Subject: Submission of Overdue Library Books

Dear Students,

The following students are hereby notified to immediately submit the listed library books that are now overdue.

A fine of Rs 5 per day has accrued (or will continue to accrue) until the books are returned.

Failure to comply today will trigger disciplinary action per departmental policy.

Overdue Book List:

Enrollment No	Student Name	Book ID	Book Title	Issue Date	Due Date	Days Overdue	Accrued Fine
24210270027	Vanya Verma	13	C Programming Language	2025-10-17	2025-10-24	39	Rs 195
24210270082	Rhea Bhatt	7	Computer Organization and Design	2025-09-24	2025-10-01	62	Rs 310
24210270021	Advaith Mishra	27	Learning MySQL	2025-11-13	2025-11-20	12	Rs 60
24210270022	Sara Khan	31	Pattern Recognition and Machine Learning	2025-09-17	2025-09-24	69	Rs 345
24210270076	Jiya Roy	7	Computer Organization and Design	2025-11-16	2025-11-23	9	Rs 45

24210270042	Harsh Iyer	44	Competitive Programming 3	2025-10-17	2025-10-24	39	Rs 195
24210270064	Aayush Saxena	16	The Pragmatic Programmer	2025-10-15	2025-10-22	41	Rs 205
24210270100	Atharv Verma	33	Python Machine Learning	2025-09-02	2025-09-09	84	Rs 420
24210270075	Sai Reddy	24	RESTful Web APIs	2025-09-20	2025-09-27	66	Rs 330
24210270020	Rhea Pandey	15	Design Patterns	2025-09-26	2025-10-03	60	Rs 300

You are directed to return the above books without further delay.
Punishment Clause: Continued non-compliance after 3 days from this notice will result in suspension of borrowing privileges for one month and a formal report to the Academic Coordinator.

Regards,

Librarian
Departmental Library
Computer Department
Government Polytechnic Awasari (Kh)

Email Format:

The screenshot shows an email in the Gmail inbox titled "Overdue Book Notice - hey im ghost". The email is from "dateyash48@gmail.com" to "yashdate36". It was sent on "Sun, Nov 30, 12:19 PM (2 days ago)". The message body contains the following text:

Overdue Book Notice - hey im ghost

dateyash48@gmail.com
to yashdate36
Dear raj,

This is an automated notification from the Library of Computer Department, Government Polytechnic Awasari (Kh).

The following book borrowed from our library is overdue and needs to be returned immediately:

Book ID: 5
Book Title: hey im ghost
Issue Date: 2025-10-07
Due Date: 2025-10-14
Days Overdue: 47
Fine Amount: ₹235

As per library rules, a fine of ₹5 per day is applicable for overdue books.

Please return the book to the library at the earliest and clear the pending fine. Failure to do so may result in restrictions on future borrowing privileges.

For any queries, please contact the library desk.

Thank you for your cooperation.

Librarian
Departmental Library
Computer Department
Government Polytechnic Awasari (Kh)

Note: This is an automated email. Please find the attached formal overdue letter.

One attachment • Scanned by Gmail • Add to Drive

Reply Forward

Background Tasks

- Daily 9 AM email reminders (daemon thread) It sent automatically email to student who are delayed to return book,Automatically.
- Real-time dashboard updates
- Auto-refresh after transactions

Data Integrity

- Foreign key constraints in database
- Transaction rollback on errors
- Duplicate prevention
- Academic year tracking

