JAVA SYSTEM STRUCTURE

University of Davao Library System (Home)

|

|----SEARCH BOOKS—->(Search Frame)

|----ADMIN —>(Admin Login Frame)

|

|-- User Side (UD MEMBERS)

| |-- Search Frame

| |-- Search by Title, Author, Category, ISBN

| |-- Search Button → (Book List Frame)

| |-- Book List Table (List of Books)

| |-- Select Book → (Book Details Frame)

| | |

| | |-- Book Details Frame

| | |-- Title

| | |-- Author

| | |-- Category

| | |-- Shelf Number(Location)

| | |-- Availability Status

| | |-- Book ISBN

| | |-- "If not available, go to the Admin Desk to request borrowing"

| | |-- “Back” Button

| | |-- “Request Book” Button

| | |

| | |-- UD Member Login Frame

| | |-- User Name & UD ID (User Input)

| | |-- Enter Button → Confirmation(yes/no) → Book Request is successfully sent.-->Back Search Frame | |--- Back Button→(Home)

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|-- Admin Side

| |-- Admin Login Frame

| | |-- Admin Email & ID, Password (Encrypted)

| | |-- Login Button → (Admin Dashboard)

| | |-- Back Button→(Home)

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| |-- Admin Dashboard Frame

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| |-- Manage Books Frame

| | |-- Book List Table

| | |-- Add Book(Book Details: Title, Author, Category, Shelf Number(Location), Book ISBN)

| | |-- Edit Book(Title, Author, Category, Shelf Number(Location), Book ISBN

| | |-- Delete Book

| | |-- Back Button —>(Admin Dashboard)

| |

| |-- Book Requests Panel

| | |-- Requests List Table(Approval Part(Approve or Reject))

| | |-- Borrower ID, Book Title & ISBN

| | |-- Edit Borrowed Books

| | |-- Update Book Availability Status

| | |-- If Approve = Print Receipt(Borrowed by UD Member Name & ID, Book Title/ISBN, Date/Time, Due Date(until 3Days))

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| |-- Returned Books Panel

| | |-- Borrowed Book Table (UD Member Name & ID, Book Title & ISBN, Date/Time, Due Date)

| | |-- Expired Borrows Table (Unreturned Books with due date and penalty(25 Pesos per excess day)

| | |-- Edit Returned Books(Edit Marked as returned or pending(if pending it will transfer back to Borrowed Book Table))

| | |-- Update Book Availability Status

| |

| |-- Reports Frame

| | |-- Borrowed Books

| | |-- Returned Books

| | |-- Borrowing Activity Stats

| | |-- Back Button —>(Admin Dashboard)

| |

| |---Back Button —>(Home)

|

|---EXIT

(System Color Design)



(System Frame Inspired Design)

