**Database Connection and Splash Screen Initialization:**

**Database Connection:** Establishes a connection to a database using ADODB (ActiveX Data Objects) connection. This connection is crucial for accessing and manipulating data stored in the database (librarydsn in your case).

**Splash Screen**: Upon launching the application, a splash screen is displayed. This screen typically shows branding or loading information while the main application initializes.

**Loading Bar Animation:**

**Loading Bar:** Utilizes a timer to animate a loading bar, providing visual feedback to the user about the progress of loading resources or initializing the application.

**Loading Percentage:** Updates a label to display the current percentage of completion during the loading process.

**Welcome Message:** Once loading is complete, a welcome message is displayed, often followed by showing the main login form (frmlogin.Show).

**Login Form Functionality:**

**Password Visibility:** Includes functionality to toggle password visibility when a checkbox is clicked, enhancing user interaction and security.

**Default Admin Credentials**: Provides convenience by filling default admin credentials (admin username and nimda password) when the cancel button is clicked.

**Exit Confirmation:** Ensures user confirmation before exiting the application, preventing accidental exits.

**User Authentication**: Validates user-entered credentials against records stored in the database (tbluser), allowing access to the main application (frmmain.Show) upon successful authentication. It also limits unsuccessful attempts to 5 before terminating the application.

**Menu Navigation:**

**Forms Navigation:** Allows navigation to various forms based on menu selections (mnuBLR\_Click, mnubook\_Click, etc.). These forms facilitate tasks such as borrowing books (frmlending.Show), viewing borrowed books (frmborrowed.Show), returning books (frmreturn.Show), and more.

**Exit Option:** Provides an option (mnuexit\_Click) to gracefully exit the application after confirming user intent.

**Borrowing Books:**

**Book Search:** Searches for books in the tblbooks table based on user input (txttitle.Text).

Borrowing Process: If a book is found, it allows borrowing by inserting the book title into the tblborrow table (con.Execute "INSERT INTO tblborrow (title) VALUES ('" & txttitle.Text & "')").

**Form Management**: Clears form inputs (cmdcancel\_Click) after completing operations, ensuring a clean user interface.

**Displaying and Selecting Borrowed Books:**

Loading Borrowed Books: Loads records from the tblborrow table to populate a list (book\_borrowed) showing borrowed books.

**Book Selection:** Handles selection of a borrowed book (cmdreturn\_Click) to initiate the return process (frmreturn.Show), updating the return form (txttitle.Text, lblstatus.Caption).

**Returning Books:**

**Return Validation:** Validates the return of a book by checking its existence in the tblborrow table (cmdreturn\_Click).

Database Update: Updates the database (con.Execute "INSERT INTO tblbooks(title) VALUES ('" & txttitle.Text & "')") to reflect the return of the book from the borrower back to the library collection.

**User Feedback:** Provides feedback (MsgBox) to the user about the successful return or if the book was not found in the borrowed list.

**Viewing Available Books:**

**Loading Available Books**: Loads all books from the tblbooks table (cmdprint\_Click) to display or print them (available.Show).

Book Selection for Lending: Allows selecting a book (cmdselect\_Click) from the available list (available\_book) to prepare for lending (frmlending.Show), updating the lending form (txttitle.Text, lblstatus.Caption).