Task 3: Design the Login Page Using NetBeans IDE (Design Window)

1. Create a New JFrame Form

1. **Open NetBeans IDE** and create a new project:
    o Go to **File > New Project > Java > Java Application**.
    o Name the project (e.g., LoginApp) and click **Finish**.
2. **Create the JFrame Form**:
    o Right-click the Source Packages folder.
    o Select **New > JFrame Form**.
    o Name it LoginForm and click **Finish**.

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2. Design the Interface (Using Palette Components)

Add Components to the Form

*   **Title Label**:
    o Drag a **JLabel** from the *Palette* (under *Swing Controls*).
    o Set its text to **"Login Page"** in the *Properties* window.
    o Customize the font (e.g., **Arial, Bold, 24px**) and alignment (center).
*   **Username Label & Field**:
    o Add a **JLabel** with text **"Username:"**.
    o Drag a **JTextField** next to it. Name it usernameField in *Properties > Variable Name*.
    o Set ToolTipText to "*Enter Username*".
*   **Password Label & Field**:
    o Add a **JLabel** with text **"Password:"**.
    o Drag a **JPasswordField** (from the Palette) next to it. Name it passwordField.
    o Set ToolTipText to "*Enter Password*".
*   **Login Button**:
    o Drag a **JButton** to the bottom of the form.
    o Set its text to **"Login"** and name it loginButton.

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3. Customize Layout & Alignment

*   **Use a Layout Manager**:

- o Select the form background (click an empty area) and choose a layout (e.g., **GroupLayout** or **GridBagLayout**).
  - o Arrange components vertically/horizontally using the *Design View* drag handles.
- **Adjust Sizing & Spacing**:
  - o Resize text fields to **~200px width** for uniformity.
  - o Ensure labels and fields are aligned (use the *Alignment Tools* in the toolbar).
  - o Add padding between components (right-click > *Set Auto-Resizing*).
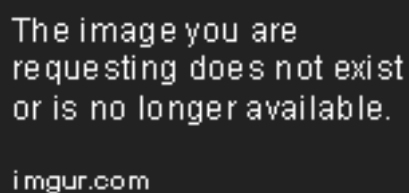- **Center the Window**:
  - o In the LoginForm constructor, add:

```java
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setSize(400, 300); // Set window size
setLocationRelativeTo(null); // Center the form
```

4. Set Component Properties

- **Rename Components**:
  - o In the *Properties* window, set meaningful names (e.g., usernameField, passwordField, loginButton).
- **Add Tooltips (Optional)**:
  - o For usernameField, set ToolTipText to "*Enter your username*".
  - o For passwordField, set ToolTipText to "*Enter your password*".

5. Test the Design

- **Run the Project**:
  - o Press **Shift + F6** (or click the *Run* button).
  - o Verify the form appears centered with all components aligned.

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6. Finalize & Save

- **Save the Form**:
  - Press **Ctrl + S** to save.
- **Documentation**:
  - Add comments in your code or a separate text file outlining your design steps.

Next Steps (Optional)

To add functionality to the **Login** button (e.g., validate credentials), you would:

1. Double-click the loginButton in Design View to auto-generate an event handler.
2. Add code to check the username/password (e.g., against a database or hardcoded values).