**Component Overview**

The **LoginForm** component is a simple login form that allows users to input their credentials (username and password) and validate them against predefined credentials stored in a configuration file. Upon successful login, it triggers a callback function (**onLoginSuccess**) to notify the parent component.

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**Use Cases**

**1. User Login**

* **Actors**: End User
* **Description**: The user enters their username and password into the respective input fields and clicks the "Login" button.
* **Preconditions**:
  + The **LoginForm** component is rendered on the page.
  + The **config.credentials** object contains valid **username** and **password** values.
* **Steps**:
  1. The user enters their username in the "Username" input field.
  2. The user enters their password in the "Password" input field.
  3. The user clicks the "Login" button.
  4. The **handleLogin** function validates the entered credentials against the predefined credentials in **config.credentials**.
  5. If the credentials match:
     + A success message is displayed: "Login Successful!"
     + The **onLoginSuccess** callback is triggered.
  6. If the credentials do not match:
     + An error message is displayed: "Invalid Credentials."
* **Postconditions**:
  + On successful login, the parent component is notified via the **onLoginSuccess** callback.

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**2. Input Validation**

* **Actors**: End User
* **Description**: The component ensures that the user provides both a username and a password before attempting to log in.
* **Preconditions**:
  + The **LoginForm** component is rendered on the page.
* **Steps**:
  1. The user attempts to log in without entering a username or password.
  2. The **handleLogin** function checks if both fields are filled.
  3. If either field is empty, the login attempt fails, and an error message is displayed: "Invalid Credentials."
* **Postconditions**:
  + The user is prompted to provide valid input.

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**3. Styling and Layout**

* **Actors**: End User
* **Description**: The component provides a visually appealing and user-friendly interface for the login form.
* **Preconditions**:
  + The LoginForm.module.css file contains styles for the component.
* **Steps**:
  1. The "Username" and "Password" input fields are styled using the **inputField** class.
  2. The "Login" button is styled using the **submitButton** class.
  3. The overall layout of the form is styled using the **loginForm** class.
* **Postconditions**:
  + The form is visually consistent with the application's design.

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**Key Functions**

**1. handleLogin**

* **Purpose**: Validates the entered credentials and triggers the appropriate response (success or error).
* **Parameters**: None
* **Logic**:
  + Retrieves the valid credentials from **config.credentials**.
  + Compares the entered username and password with the valid credentials.
  + Displays a message based on the validation result.

**2. onLoginSuccess**

* **Purpose**: Notifies the parent component of a successful login.
* **Parameters**: None
* **Logic**:
  + Triggered when the entered credentials match the valid credentials.

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**Error Handling**

* If the entered credentials do not match the valid credentials, a message is displayed: "Invalid Credentials."
* If either the username or password field is empty, the same error message is displayed.

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**Dependencies**

* **config.js**: Contains the valid credentials for login.
* **LoginForm.module.css**: Provides styles for the component.

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