Artifact: activity\_main.xml  
Created: January 2025  
Context: Warehouse Android app – user authentication screen

Original state.  
The initial layout implemented a minimal login: two EditText fields (username and password) and a single Login button. While functional, the screen lacked usability, accessibility, and security affordances commonly expected in modern mobile apps. There was no guidance for account recovery, no way to create an account, no persisted sign-in preference, and no visual hierarchy to orient the user.

Enhancements delivered.  
I redesigned the screen to improve clarity, trust, and efficiency:

* Welcome header (“Welcome to the WareHouse”) and light, brand-consistent background to establish hierarchy and improve readability.
* “Remember me” checkbox to persist the username and reduce friction on return visits.
* “Forgot username?” recovery action to direct users who cannot recall credentials.
* “Register” button to support first-time account creation directly from the login surface.
* Form polish for faster, error-free input.
* Accessibility & autofill (labels/labelFor, autofill hints) to support screen readers and password managers.

Why this is better.  
The new design aligns with Material/Android UX conventions and adds meaningful security and usability features without increasing cognitive load. Users get clear entry points for recovery and registration, reduced re-typing with “Remember me,” and a more welcoming, professional first impression. These changes also make future additions—like inline validation, password visibility toggle, or a loading state—straightforward.

Course outcomes demonstrated.

* Design, develop, and deliver professional-quality oral, written, and visual communications that are coherent, technically sound, and appropriately adapted to specific audiences and contexts.
* Demonstrate an ability to use well-founded and innovative techniques, skills, and tools in computing practices for the purpose of implementing computer solutions that deliver value and accomplish industry-specific goals.
* Employ strategies for building collaborative environments that enable diverse audiences to support organizational decision-making in the field of computer science.