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

Original state.  
The initial layout was simply two buttons. One to opt in to SMS verification and one to send the message. There was no area for the user to input their information

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

* Welcome header (“Welcome to the WareHouse”) and light, brand-consistent background to establish hierarchy and improve readability.
* “Enable SMS permission” checkbox instead of button to simplify and modernize the UI.
* EditText box for the user to actually input the information being utilized on the platform
* Progress bar for the user to see in real time the progression of the message being sent.

Why this is better.  
The new design aligns with Material/Android UX conventions and adds meaningful security and usability features without increasing cognitive load. The new form allows for the APP to collect the necessary data required to maintain the database. In comparison to the previous version this is more functional.

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.
* Develop a security mindset that anticipates adversarial exploits in software architecture and designs to expose potential vulnerabilities, mitigate design flaws, and ensure privacy and enhanced security of data and resources