GLOSSARY

- **ERP** (Enterprise Resource Planning) – A central system used by businesses to manage key operations such as inventory, pricing, sales, purchasing, and finance. In the retail context, it stores product pricing and stock levels and is typically the source for revaluation data.

- **POS –** (Point of Sale) – The system used by cashiers to scan items and process transactions during checkout. The POS must be synchronized with ERP.

- **ESL** (Electronic Shelf Labels) - Digital price tags that display product information and can be updated wirelessly through a central management system.

- **PDS** (Product Data Server) - Abstract data server containing product information (prices, descriptions, specifications) that serves as the single source of truth for ESL updates. Designed to be system-agnostic and separate from ERP/POS integration complexities.

- **ESL Base Station** - Hardware device that serves as a communication gateway between the store's network infrastructure and ESL devices via Zigbee protocol. Typically covers 100-200 ESL devices depending on the store layout.

- **Zigbee** Protocol - Low-power wireless mesh networking standard used for ESL communication, enabling long battery life and reliable device-to-device connectivity.

- **Revaluation** - Price change event or batch of price changes processed through the current ERP system, requiring manual price tag updates in the existing workflow.

- **Filters** in admin panel:
  - "**By remains**" – N products on stock = N count of price tags, for example it is especially relevant to hanging products, because most of them in retail hall, not in stock
  - "**By availability**" – N products on stock = ONE count of price tag for each unique product, but if it needs to, staff can enter count of duplicates into special admin panels' area;

- Price Tags **Format** - size of the price tag (e.g. 45x26 mm)

- **Wobbler** - Small advertising sign attached to shelf displays designed to attract customer attention to promotions or special offers.
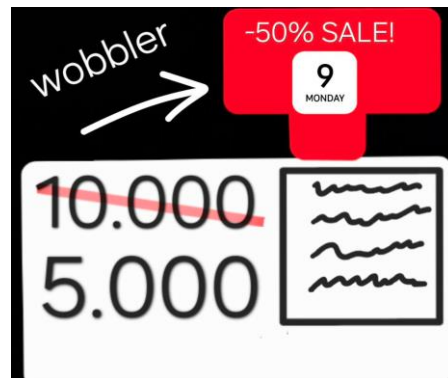

Image 1 – Price tag with Wobbler

- **Hanging products** - cables, chargers, phone cases, backpacks, screen protectors, gaming peripherals and other products currently using sticker price tags
- **QR Code Reassignment** - Process where store associates scan a QR code displayed on an ESL device (activated by physical button press) to access the web interface for product reassignment.
- **Web-Interface** - Mobile-optimized web application allowing store associates to manage ESL assignments, accessible via smartphone or computer.
- **Admin Panel** - Current browser-based system used for filtering and printing price tags, to be integrated with ESL management functionality.
- **Prepare Stage** - Initial phase of the daily sales business process involving store preparation activities, including price tag management, before opening to customers.
- **Physical Interaction Button** - Programmable button integrated into ESL hardware allowing basic operations like displaying QR codes for reassignment processes.
- **Mesh Network Architecture** - Self-healing network topology where ESL devices can communicate through multiple pathways, ensuring reliability even if individual devices fail.