

people	Activity	context	Technology
Customer 18-60 years Male & Female Effortless and navigation quick assistance personalized Promotions recommendations	<ul style="list-style-type: none"> - Sign-Up The customer creates an account for first-time use. - Login The customer automatically logs into the system via Bluetooth-enabled devices. - Buying Product Operation The customer browses products and selects items to purchase. - Edit Buying Operation The customer modifies the product quantity or preferences in their cart - Cancel Buy Product Operation The customer removes items or cancels transactions. 	<ul style="list-style-type: none"> - Customers are in supermarkets, using a smart shopping device in the shopping area. - Noise level and distractions vary depending on the time (peak vs. off-peak hours). - Devices may be shared between multiple users. - Customers might have limited technical skills, requiring intuitive interfaces. - Customers may be standing or moving while using the system. - Promotions and offers are updated dynamically and loaded contextually based on customer preferences. 	<ul style="list-style-type: none"> - TUIO markers for GUI and product interaction. - Bluetooth for context-aware login. - Gesture recognition via Mediapipe for alternative GUI control. - Object detection using YOLO to identify product selection via gestures or direct interaction. - Emotion analysis to assess user satisfaction with interaction methods. - Gaze tracking to identify preferred products and display relevant promotions. - Facial recognition for secure login.
Admin 25-45 years Efficient tools for inventory and transaction management, intuitive interface.	<ul style="list-style-type: none"> - Login The admin logs into the system to manage product and transaction data. - Add New Product The admin enters new product details into the system. - Delete Product The admin removes outdated or incorrect product information. - Accept Buying Operation The admin validates and processes purchase transactions initiated by customers. - Show Buying Operations The admin views transaction records to analyze trends or handle disputes. 	<ul style="list-style-type: none"> - Admins access the system from a back office or admin interface, often seated with minimal distractions. - Tasks often involve batch updates or managing multiple transactions. - Time-sensitive environment during peak shopping hours. - Access control is required to restrict unauthorized use of the admin interface. - Data visualization tools are needed for decision-making based on buying operations. 	<ul style="list-style-type: none"> - Admin GUI with rotation control via TUIO markers. - Object detection for verifying the product database accuracy. - Text-based file systems for data storage and management. - Mediapipe for gesture-based interaction (for intuitive control during data review). - Bluetooth for detecting admin devices and facilitating automatic login.