# **Product Specification**

## (Product concept and requirements)

### **Product Name:**

"InPostOr"

## **Target Users:**

Online shop owners wishing to expand delivery options for their goods.

#### **Use cases:**

#### 1. Delivery to Locker:

Actor: Customer

**Preconditions:** Customer has ordered a package for delivery and has chosen a locker for pickup.

- Once the order has been placed, the customer receives a confirmation notification and a parcel number.
- Customer receives a notification that their package has been delivered to their assigned locker.
- Customer goes to the locker and scans the code provided in the notification to unlock the locker. (Alternatively provides the tracking number and claiming code)
- The locker door opens, and the customer retrieves their package.
- Customer confirms receipt of the package on the system.
- The system updates the delivery status as "delivered" and sends a notification to the customer confirming successful delivery.

#### 2. Delivery to ACP:

**Actor:** Partner store

**Preconditions:** Partner store has been registered and approved as an ACP for the package delivery system.

The delivery person arrives at the partner store with the package.

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- The delivery person scans the barcode on the package to update the delivery status.
- The system generates a notification to the customer, informing them that their package has arrived at the ACP.
- The customer goes to the partner store and presents the notification to the store representative.
- The store representative scans the notification to verify the customer's identity.
- The store representative hands the package to the customer.
- The customer confirms receipt of the package on the system.
- The system updates the delivery status as "delivered" and sends a notification to the customer confirming successful delivery.

## **Problem and solution description:**

Until now, online shopping involved waiting for a courier, often without knowing at what times or on what day the package would be delivered. Through the use of *InPostOr Lockers*, it makes online shopping more accessible to people who, for various reasons, do not want or cannot use a traditional courier service by being available 24/7. This increases the pool of potential customers for our target users.

## **Functional requirements:**

- 1. Delivery Notifications: The system must provide sending and delivery notification to customers via email.
- 2. Lockers Management: The system must allow administrators to manage lockers, assign them to customers, and track locker availability.
- 3. ACP Management: The system must allow administrators to manage ACPs, add new partners, and track package deliveries to partner stores.
- 4. Package Management: The system must allow delivery personnel to scan and track packages, update delivery status, and manage deliveries to lockers and ACPs.
- 5. Package Size and Weight Limits: The system must enforce package size and weight limits to ensure that packages can fit into the lockers and that delivery personnel can safely transport packages to ACPs.

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- 6. Pickup Time Limits: The system must enforce time limits for package pickup at lockers and ACPs to ensure timely delivery and prevent overburdening the system.
- 7. ~Customer Management: The system must allow administrators to manage customer accounts, view delivery history.

## Non-functional requirements:

- 1. Availability: The system must be available 24/7 to allow customers to access their packages at any time and to facilitate deliveries to ACPs.
- 2. Reliability: The system must be reliable and operate with minimal downtime to prevent package delivery delays or system failures.
- 3. Performance: The system must have fast response times, even during periods of high usage, to ensure a smooth customer experience.
- 4. Usability: The system must be user-friendly and easy to navigate for both customers and administrators, with clear instructions and intuitive interfaces.
- 5. Scalability: The system must be scalable to accommodate increasing numbers of customers and package deliveries as the service expands.

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