User Guide

Background:

Background: DoorDash is pioneering the use of autonomous delivery robots for short-distance food deliveries (less than 2 miles). This innovative approach aims to enhance operational efficiency and improve delivery reliability.

Main Goal: To reduce operating costs and ensure more consistent delivery times by utilizing self-driving robots. The ultimate objective is for these robots to navigate sidewalks fully autonomously, with minimal human intervention.

First Glance Information: DoorDash's autonomous delivery robots offer a cost-effective, reliable, and efficient solution for food delivery. By reducing dependency on human drivers, this technology promises faster, more predictable delivery times and an enhanced customer experience.

Details:

- **Real-Time Delivery Monitoring:**
  - **Main Functionality:** Allows the operations team to track the status and location of delivery robots in real-time.
  - **How to Access:** Users can access this feature through the main dashboard, where a map interface shows the real-time locations and statuses of all active delivery robots.
  - **Known Issues:** Occasionally, connectivity issues may cause delays in updating the real-time location of robots. Ongoing updates aim to improve this.
- **Remote Control and Intervention:**
  - **Main Functionality:** Provides operators the ability to manually control delivery robots in case of obstacles or unexpected situations.
  - **How to Access:** Accessible via the control panel on the dashboard, where operators can select a robot and take manual control if needed.
  - **Known Issues:** Initial deployment may require more frequent manual interventions as the system learns and adapts to various environments. Improvements are continuously being made.

- **Optimized Route Planning:**
  - **Main Functionality:** Uses advanced algorithms to determine the most efficient delivery routes, reducing travel time and operational costs.
  - **How to Access:** Route optimization can be set up in the settings menu, where users can input parameters and preferences for the delivery routes.
  - **Known Issues:** In areas with complex traffic patterns, route optimization may need adjustments. Future updates will address these challenges.

Visual Elements:

- https://www.figma.com/proto/MDNcSycprqmTKUQgefXQpd/Doordash?node-id=2-233&node-type=canvas&t=LhU2OK9kFDB0KOFo-1&scaling=scale-down&content-scaling=fixed&page-id=0%3A1&starting-point-node-id=30%3A104&show-proto-sidebar=1