

PEGA

POC PRODUCT GUIDEBOOK

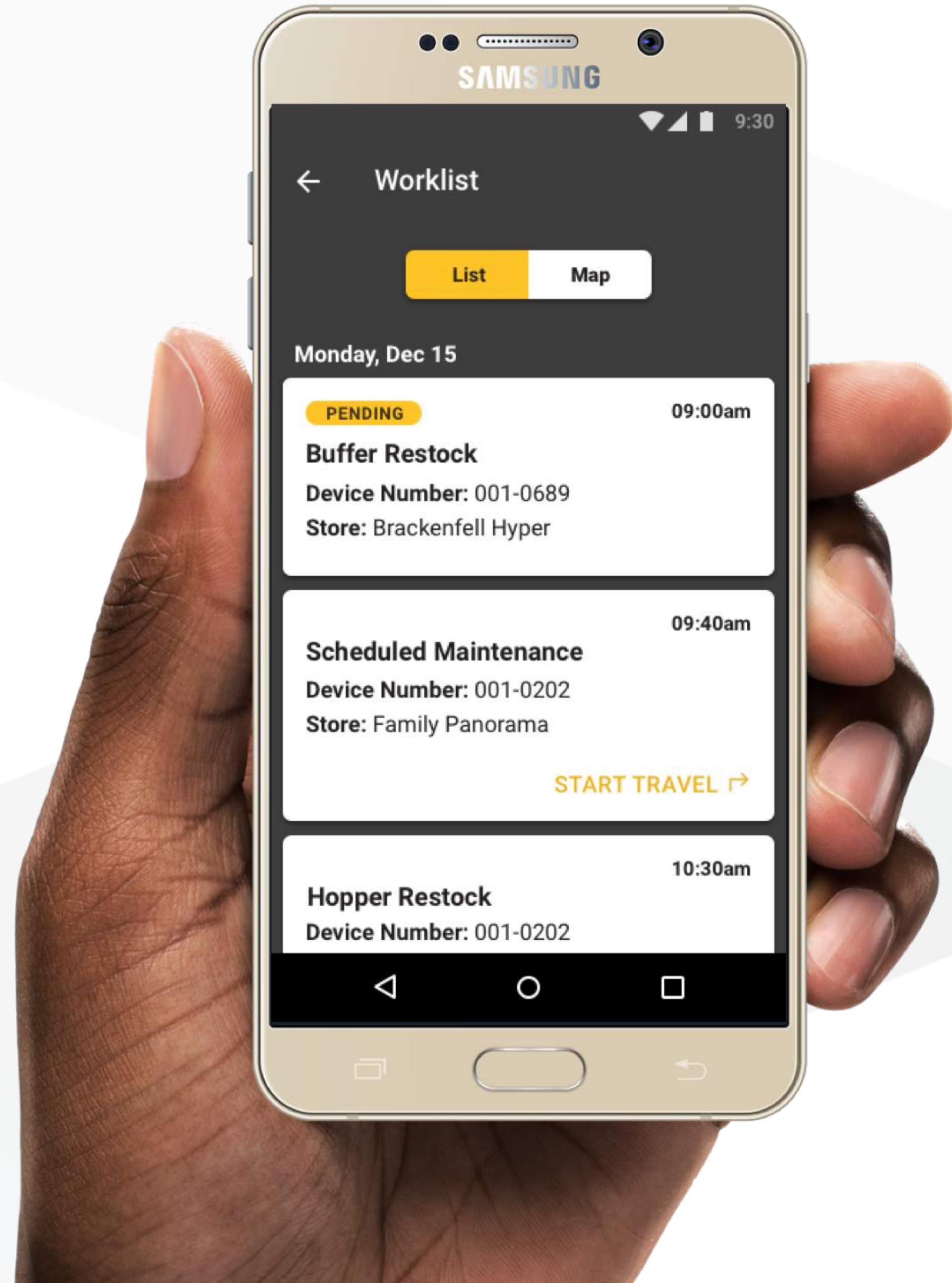


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CONTEXT

BACKGROUND

PROJECT ORIGIN

- When the Kiosk was introduced in South Africa, very limited management tooling was rolled out alongside – in essence, an off-the-shelf mobile device management suite.
- The tooling, whilst intermittently providing some time delayed status reporting (tablet only) is a poor fit being generic and geared towards policy management of BYOD instances. It lacks real time monitoring and an ability to comprehensively manage device remotely.
- Consequently, the kiosk management and maintenance is very reactive and manual with reliance being placed on stores/customer to report device outages / issues negatively impacting device availability and customer services.
- Similarly, due to an inability to perform even superficial maintenance remotely, all device interventions require a physical visit. This puts a big burden on a small team of field agents and creates a very expensive maintenance cycle and prolonged downtime when more remote kiosks are in need of maintenance.
- With our stated desire to delight the customer, a stable fleet of devices that can be attended to 24/7 remotely and always be available to service customers requires a comprehensive monitoring capability, coupled with self healing (AI), reliable remote management and automation of installation, card and consumable stock ordering and replenishment.

01 Kiosk Install

- Automation of kiosk availability, scheduling / assignment to location, arranging & tracking of delivery
- Automated appointment scheduling for installation team (based on tracking data)

02 Kiosk Maintenance

- Ad hoc repair - Automated identification, case creation (incl. scheduling of technician) and full activity tracking
- Consumable stock replenishment - Automated identification, case creation (incl. scheduling of technician) and full activity tracking
- Scheduled maintenance – Automated case creation and scheduling of technician

03 Bluetooth Lock/Unlock Device

- Central management of dual lock mechanism: manual combination lock + Bluetooth auto lock
- Geo-sensing capability for added security

04 Card Stock Management

- Monitor card stock level and assess next best action (automated card stock ordering)
- Auto create restocking cases and track case to completion

05 MIS / KPIs

- All activities tracked/recorded with dashboards
- Automated / scheduled reports on activity

How can we leverage Pega's Field Services Application to build a prototype that validates key technical concepts (Bluetooth lock/unlock, cardstock management, kiosk maintenance, kiosk install)?

01 IOT to Monitor Peripheral Devices (Maintenance, Stock Management)

- Card holder / Tumbler (lock)
- Camera/Tablet
- Printer/Scanner
- Fingerprint Reader
- Router / Raspberry Pi, etc.

02 Pega Field Service Mobile App (All Use Cases)

Build a Pega Mobile Case Management app for use by field technicians to perform field activity whilst providing the central ability to optimize scheduling of agents, full tracking of activity (time and geo-location) and comprehensive reporting and performance management.

03 Pega Decisioning

Pega decisioning / next best action /AI to monitor IOT data and pro-actively respond to anomalies (attempt to self heal, create case for remote technician, schedule in field technician).

04 Pega Case Management / Dashboards / Reporting

- Desktop case management for remote technicians with full control over all components/peripherals
- Tracking and reporting of activity

05 Bluetooth Kiosk Unlock / Lock

Build capability to remotely lock/unlocking a kiosk device (via on-board Raspberry Pi device) from within a Pega Case (maintenance activity requiring physical access).

PEGA CUSTOMER SERVICE

Account overview
Contact details
CSR prompts (script)
Customer value widget

Pega Field Service

Account overview
Contact details
CSR prompts (script)
Customer value widget

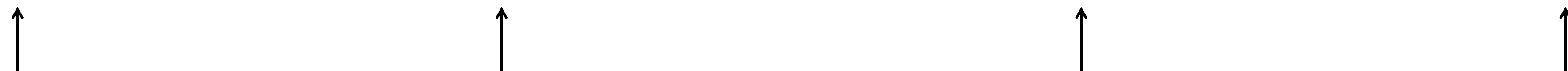
**Basic functionality
in common**

Intelligent guidance (NBA)
Co-Browse
Live chat
Social engagement
Knowledge management

**Advanced
customer service
features**

**Core
field service
features**

Scheduling & dispatch
Automated assignment
Management dashboard
Integrated mobile app
Mobile offline, barcode scan, signature capture, push notifications, & more



IOT Layer

BLUEPRINT PRODUCT ARCHITECTURE

Goal:

To organize functionality into a coherent, intuitive blueprint that serves as the structural foundation for the product.

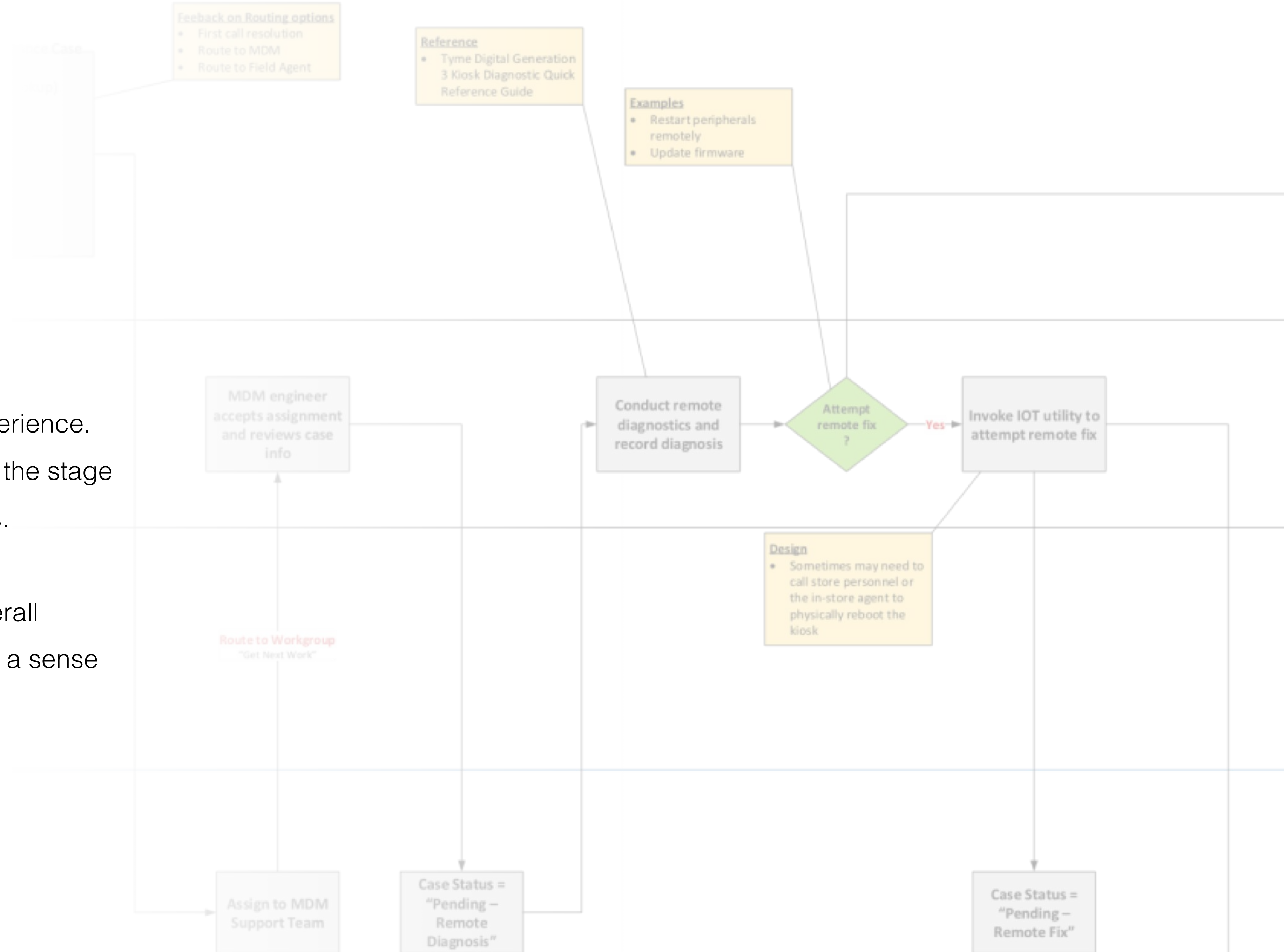
Deliverables:

1. Process Flow Design
2. Wireframes

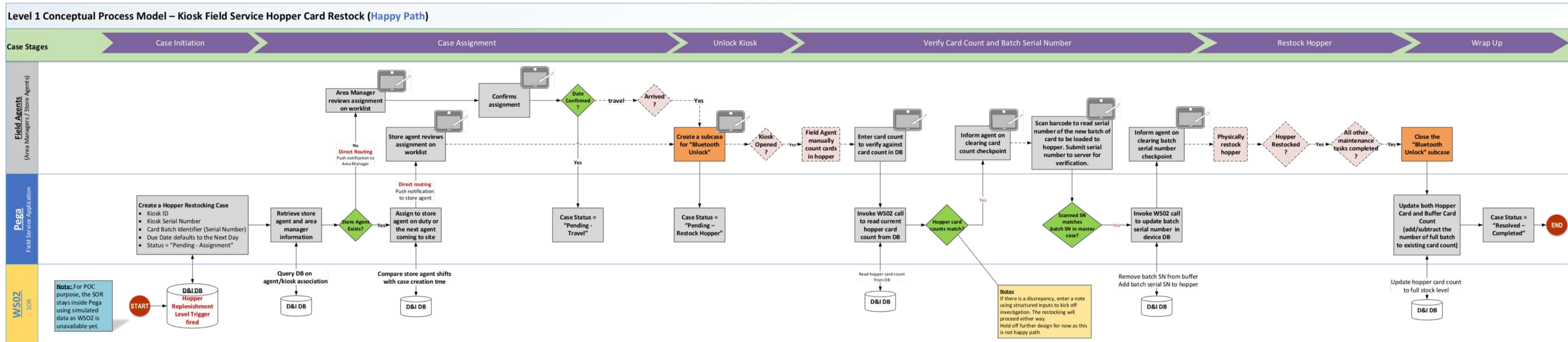
PROCESS FLOW

Process flows serve as the initial visualization of the entire user experience. Here, all actors are identified, and the stage is set for more detailed wireframes.

The process flow validates the overall product architecture and provides a sense of project scope.

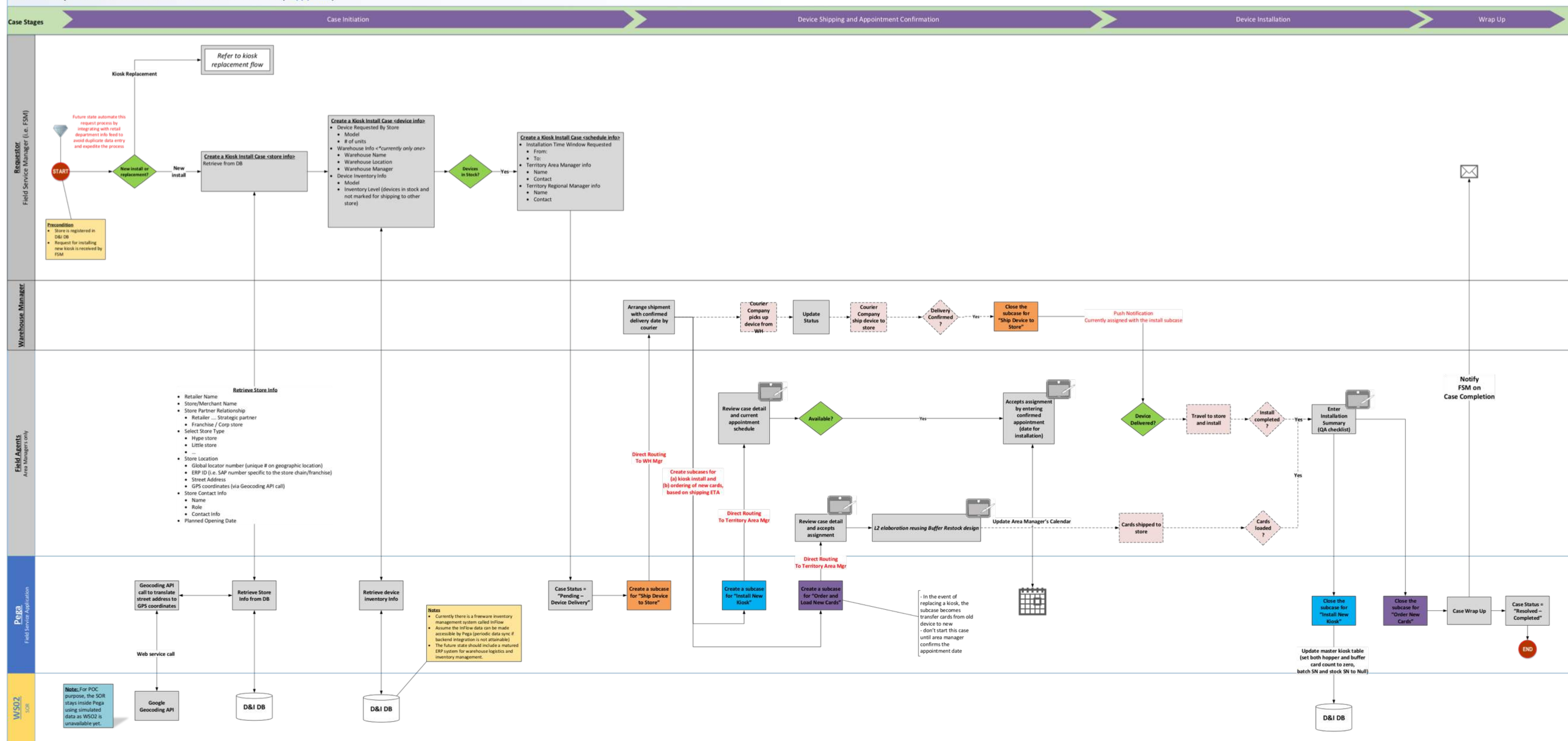


CARD STOCK MANAGEMENT



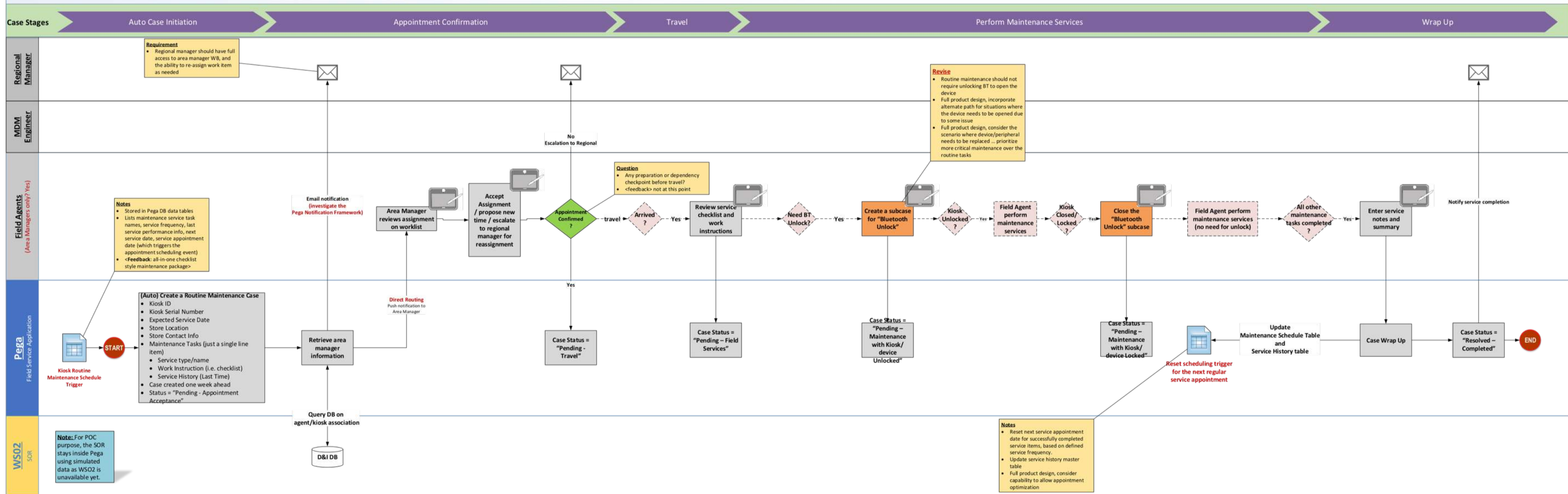
KIOSK INSTALL

Level 1 Conceptual Process Model – Kiosk Field Service Install Kiosk (Happy Path)

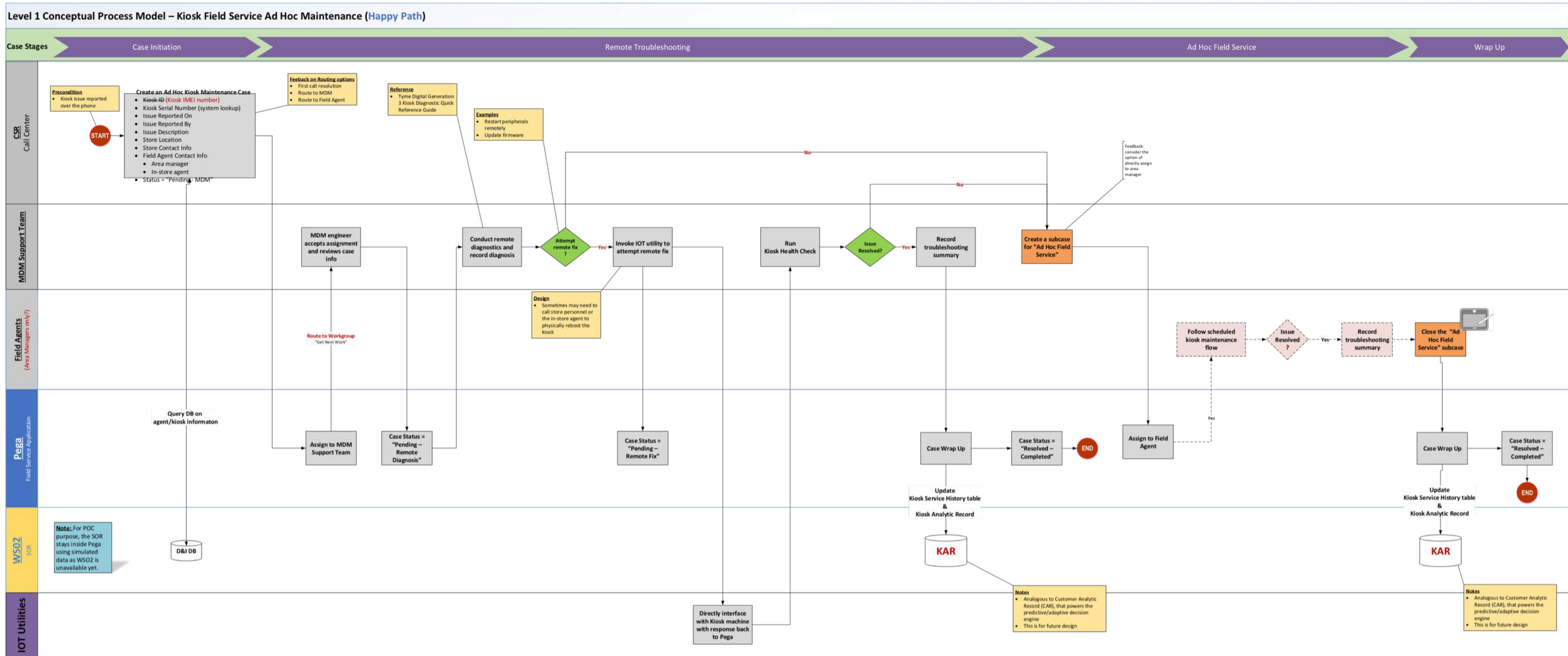


KIOSK ROUTINE MAINTENANCE

Level 1 Conceptual Process Model – Kiosk Field Service Routine Maintenance (Happy Path)



KIOSK REPAIR MAINTENANCE

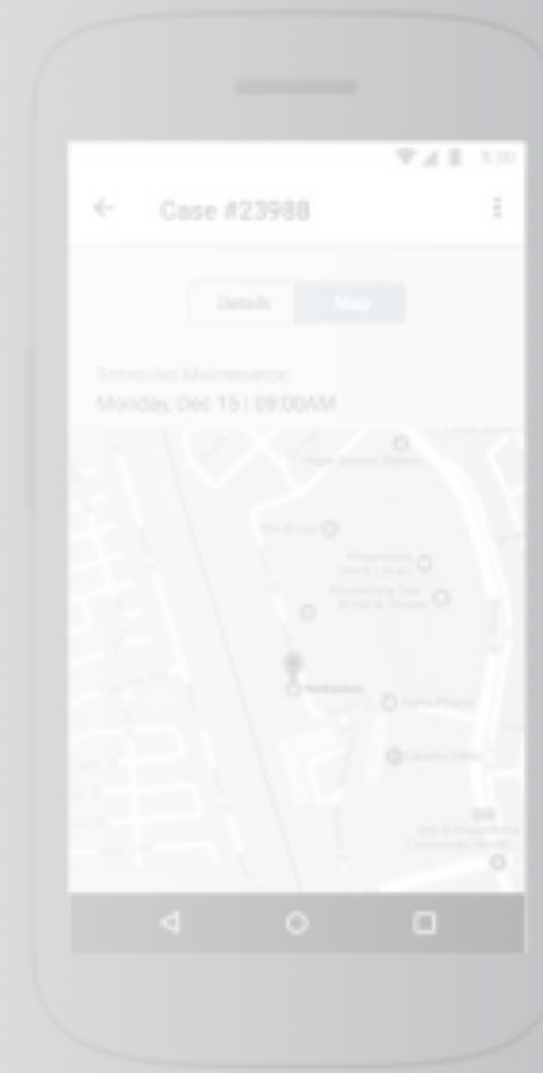


WIREFRAMES

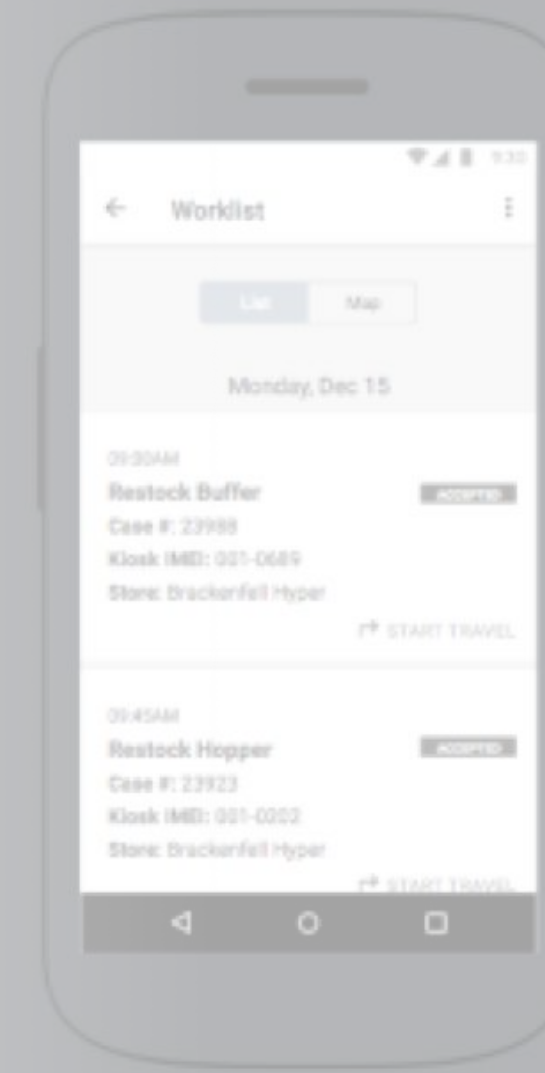
Wireframes are the backbone of an interface's design, providing the initial structure upon which the product's visual design is based.



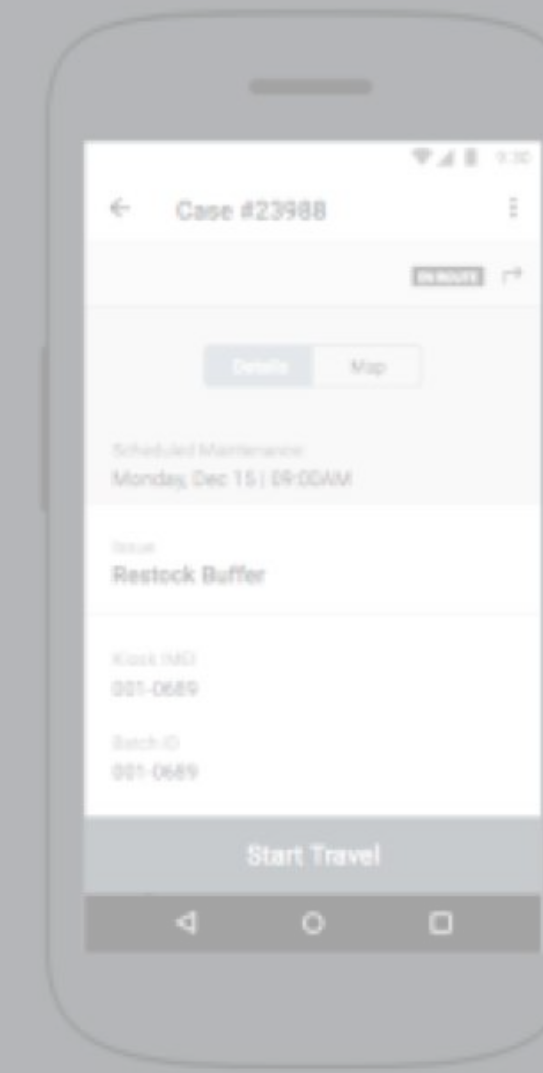
4. Detail View



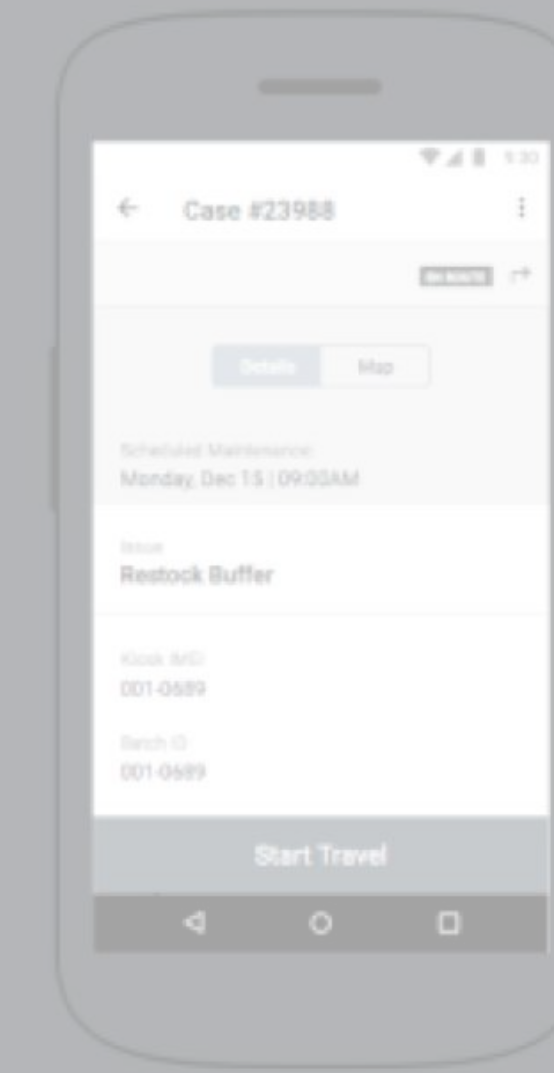
5. The Manager may tab between the case detail view and the map view.



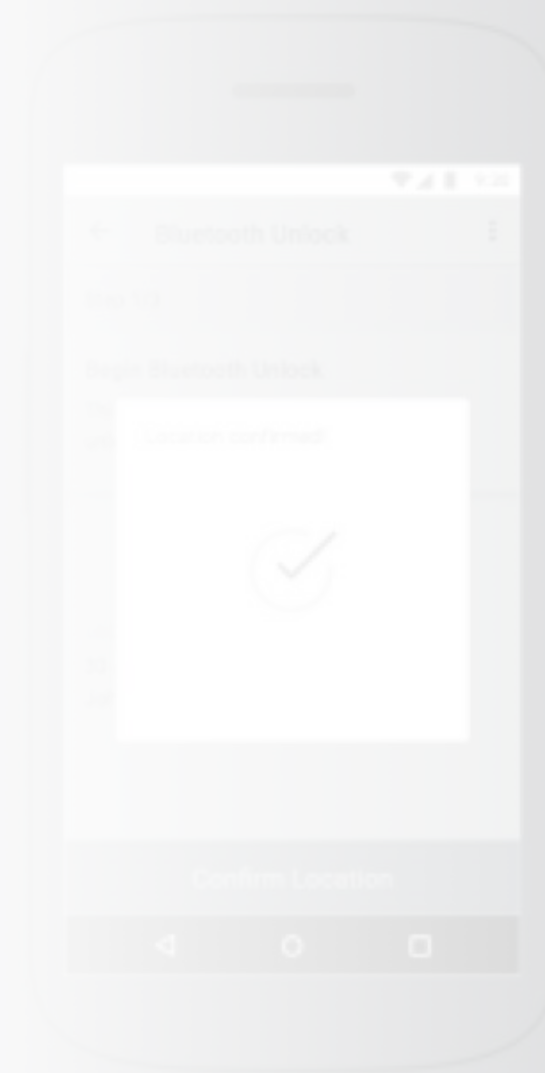
6. Once the Area Manager has accepted the work, the status of the case changes from "pending" to "accepted."



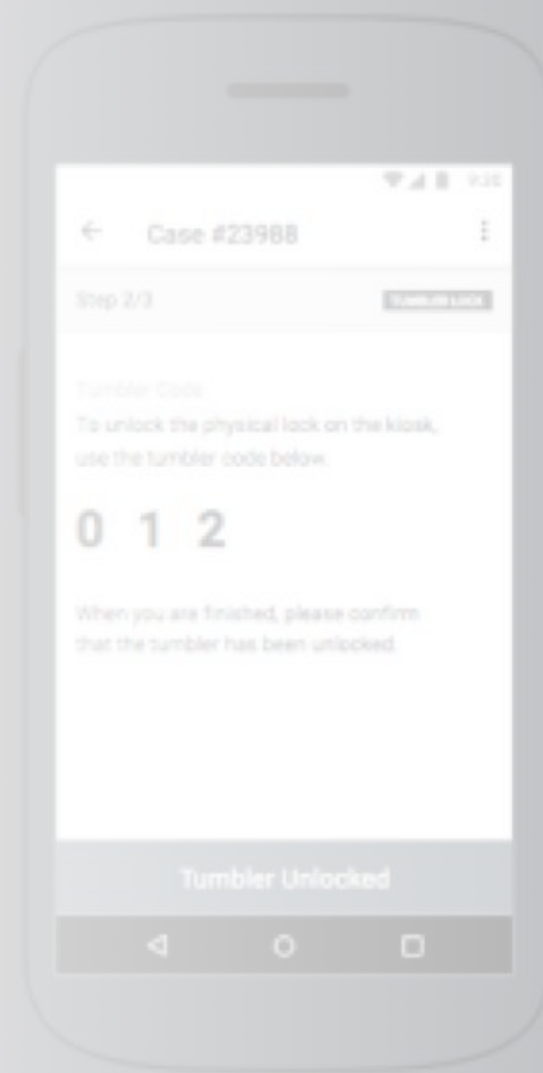
7. The Area manager can tap "Start Travel" to get directions to the location via Google Maps.



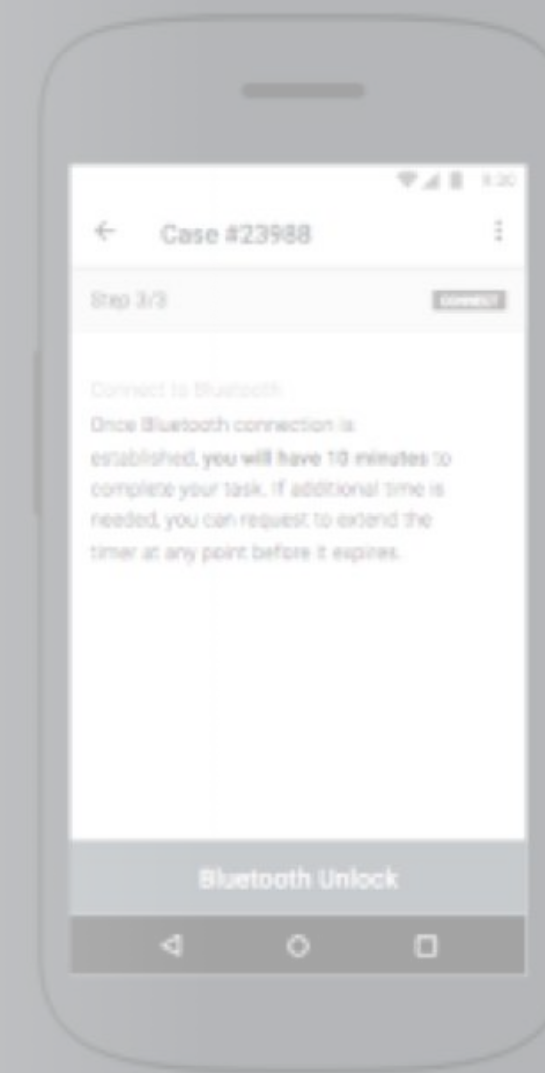
8. When the Manager arrives at the kiosk and is ready to begin work, they tap "Start Work."



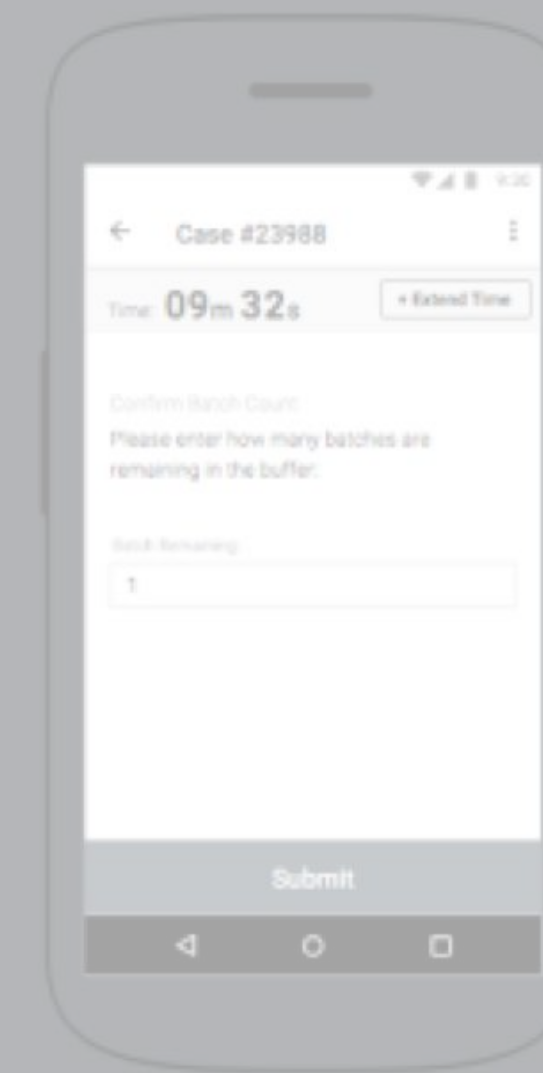
16. The Manager is notified when the location is managed by the system.



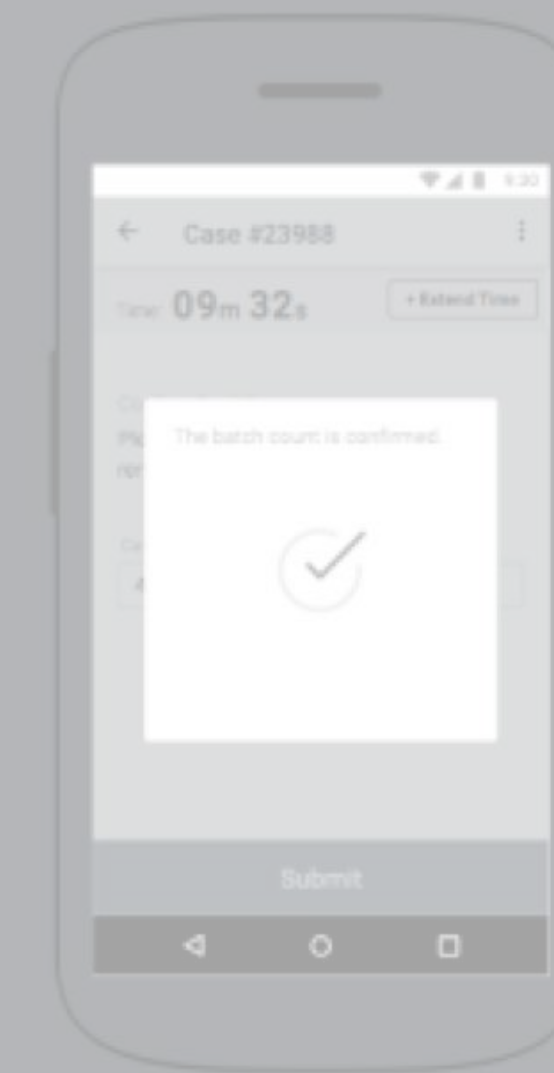
17. Pega sends the tumbler code, and the Manager is asked to confirm the code.



18. Before Pega sends BT unlock, the Area Manager must confirm the connection.



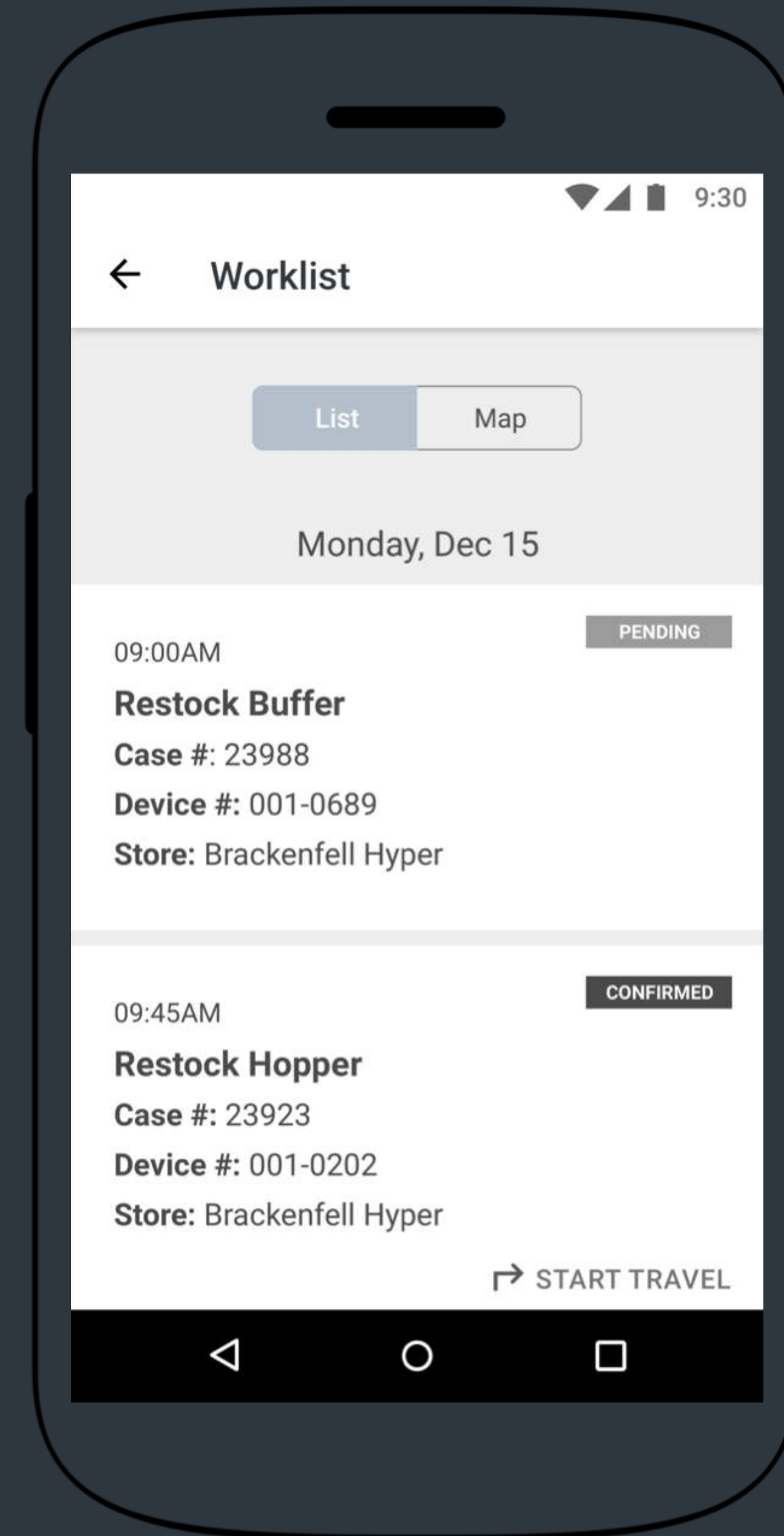
19. Pega unlocks the kiosk and the countdown timer begins.



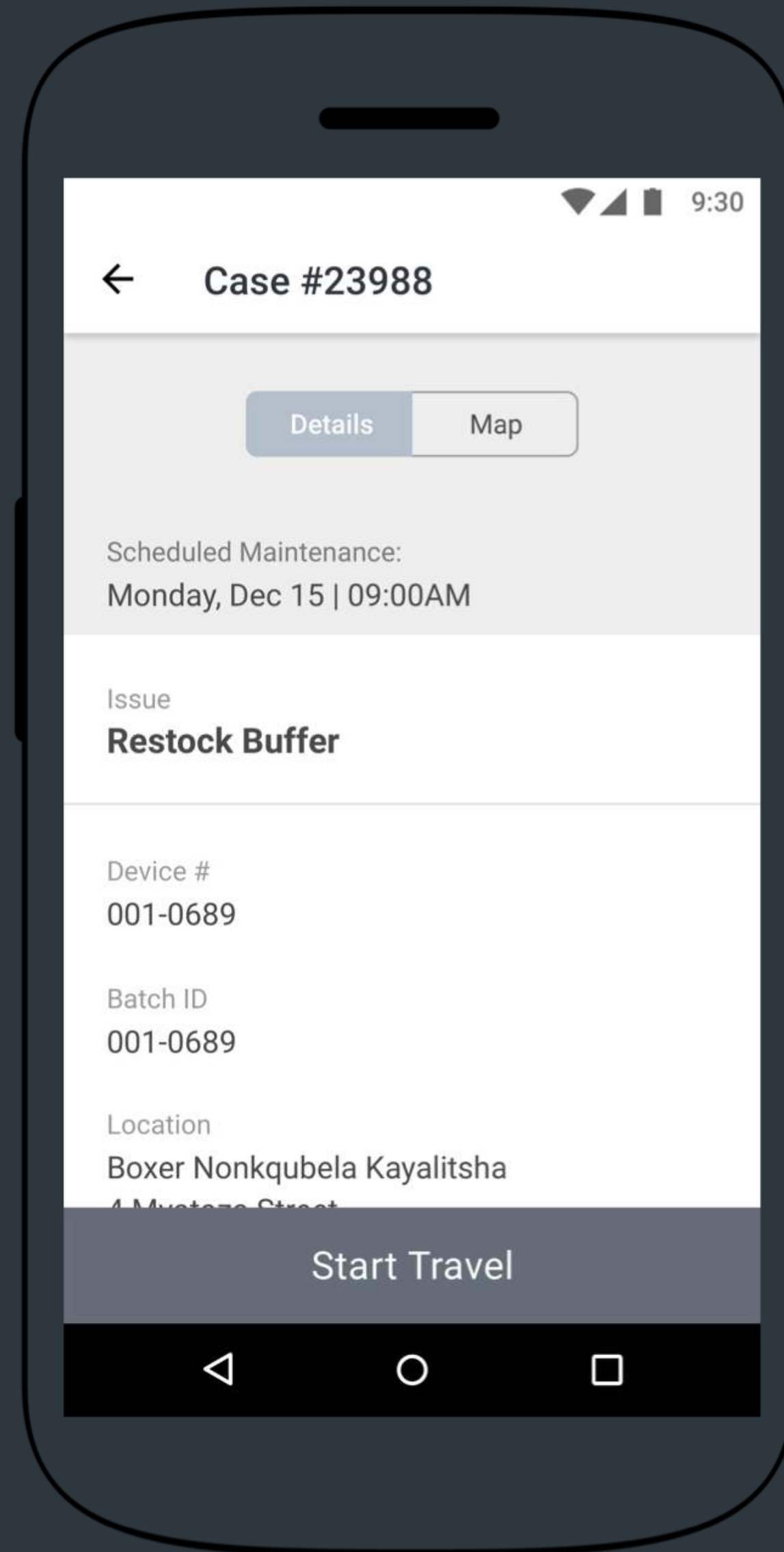
20. The system informs the Agent when the batch count has been verified.

WORKLIST

The Worklist screen is the home screen of the app. Here, the service agent can review upcoming work cases in chronological order, viewing the top level information for each case.



KEY SCREEN

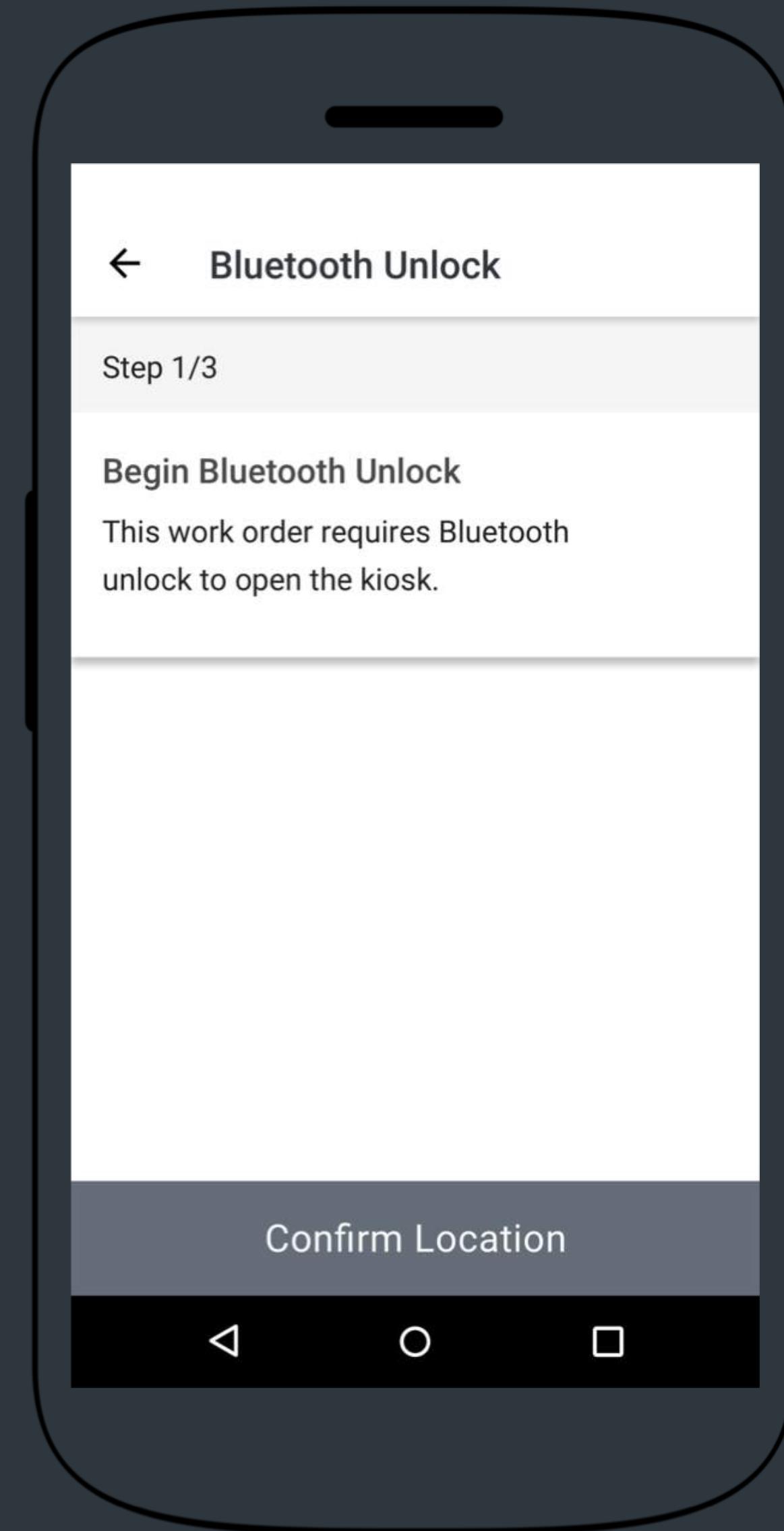


CASE DETAILS

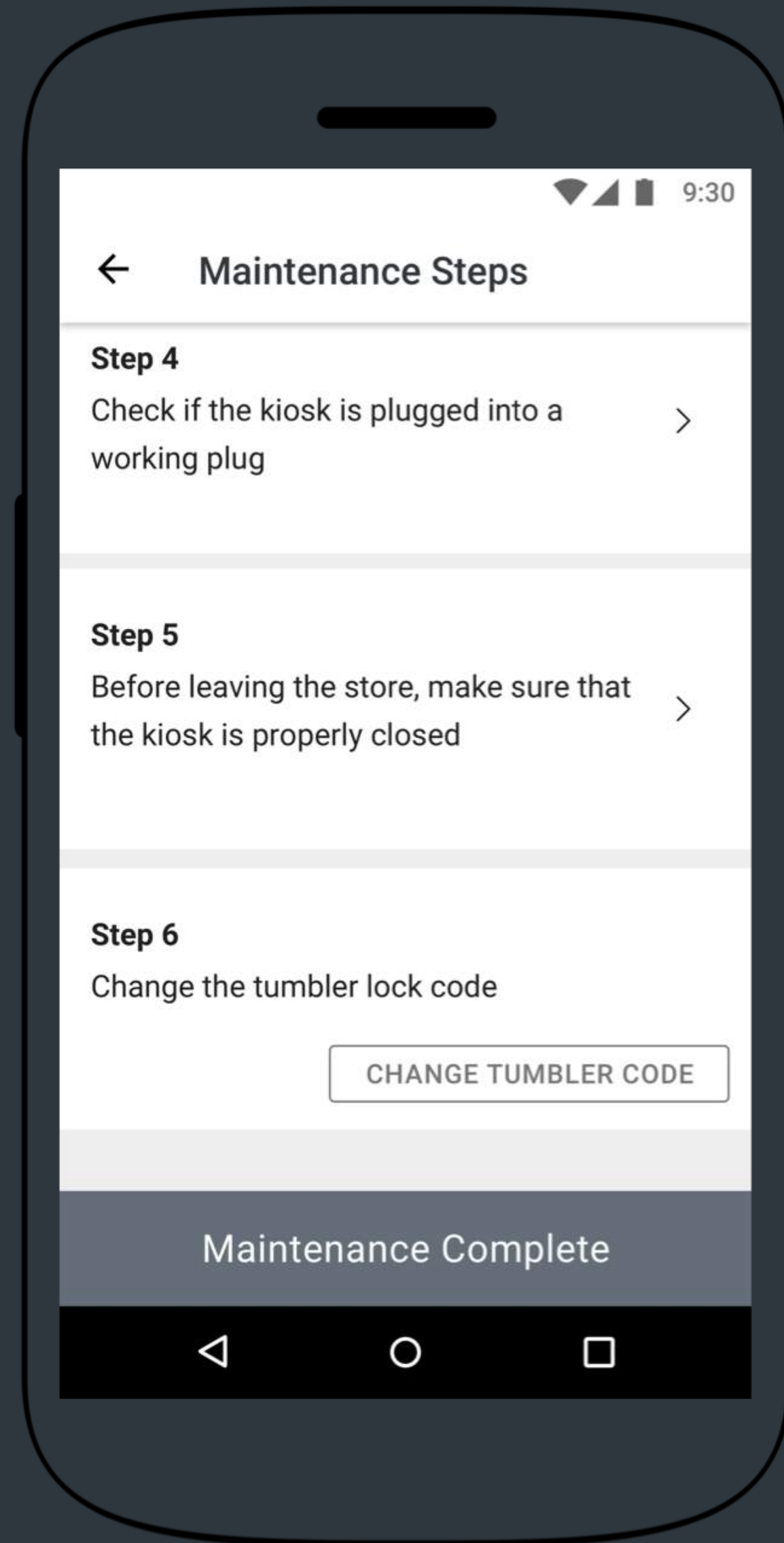
The service agent can tap on any case in their worklist to view specific information about that case. Here they are able to view the case location on a map, review important case details, and opt to begin their travel to the work site.

BLUETOOTH UNLOCK

In order to open the kiosk, the user must go through the a Bluetooth unlock process, where their correct location is verified.



KEY SCREEN

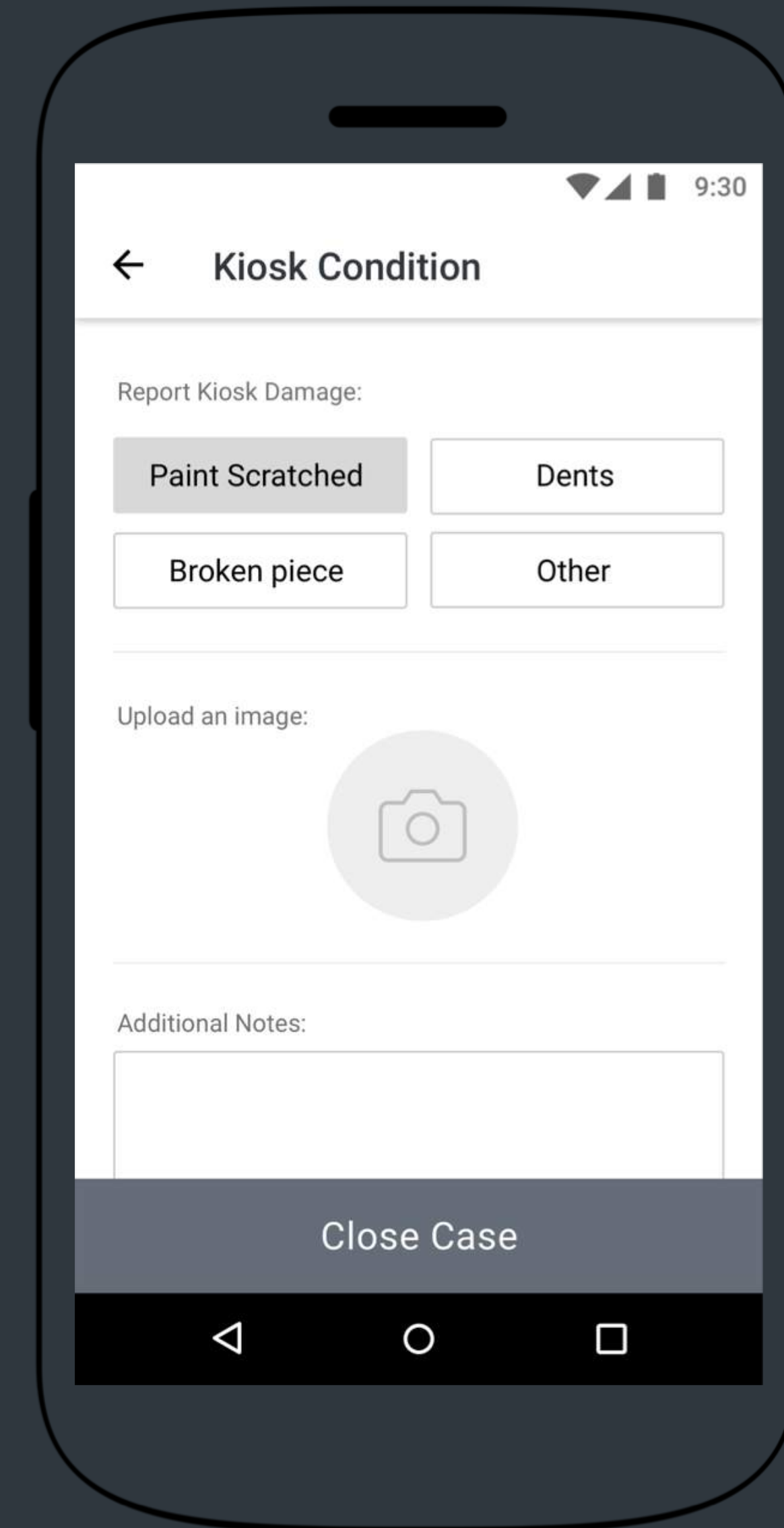


STEP-BY-STEP INSTRUCTIONS

For routine maintenance or specific repairs, the app provides step-by-step instructions to guide the user through their task. This will help to standardize workflow across all kiosks in different geographic locations.

CASE SUMMARY & KIOSK CONDITION

When a service agent has completed their work, they may mark a case as closed. During this step, they have the option to log any aesthetic damage on the kiosk. This will allow Tyme Digital to address surface damage in a timely manner so that kiosks are always looking their best.



LOOK & FEEL

VISUAL DIRECTION

Goal:

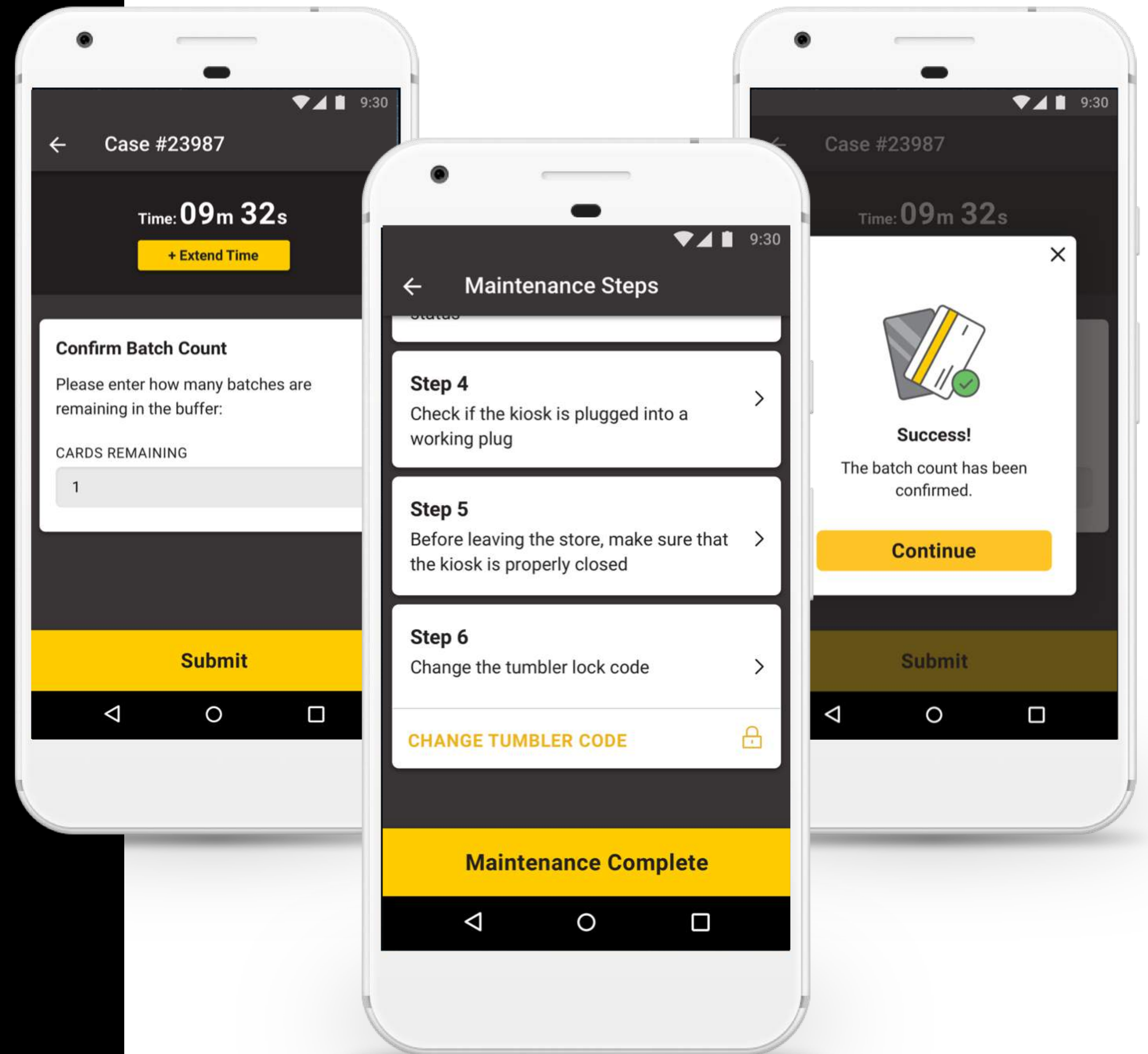
To craft and define the polished, aesthetic attributes of the project, where beauty equals functionality.

Deliverables:

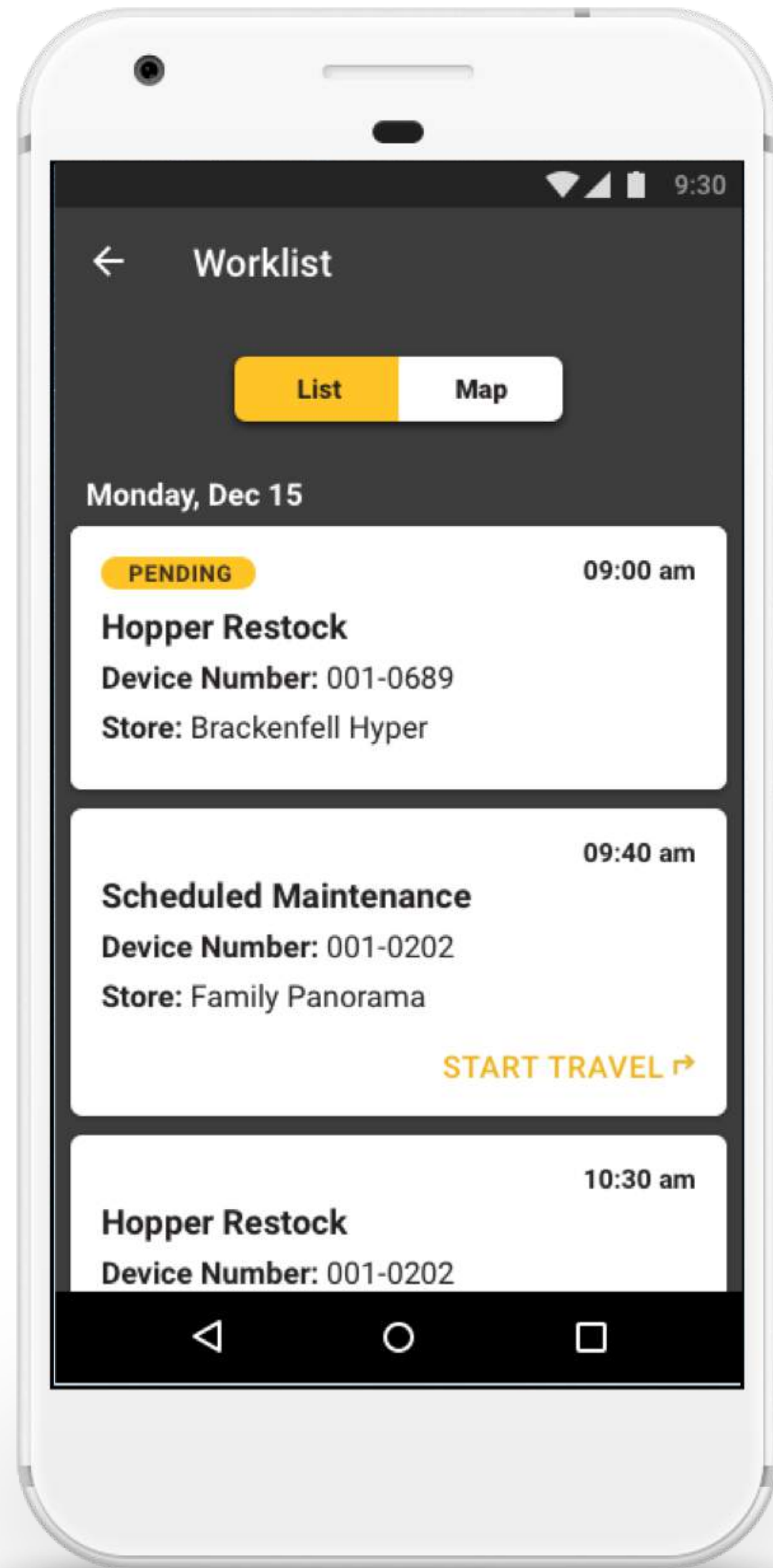
1. Mockups
2. Styleguide

LOOK & FEEL

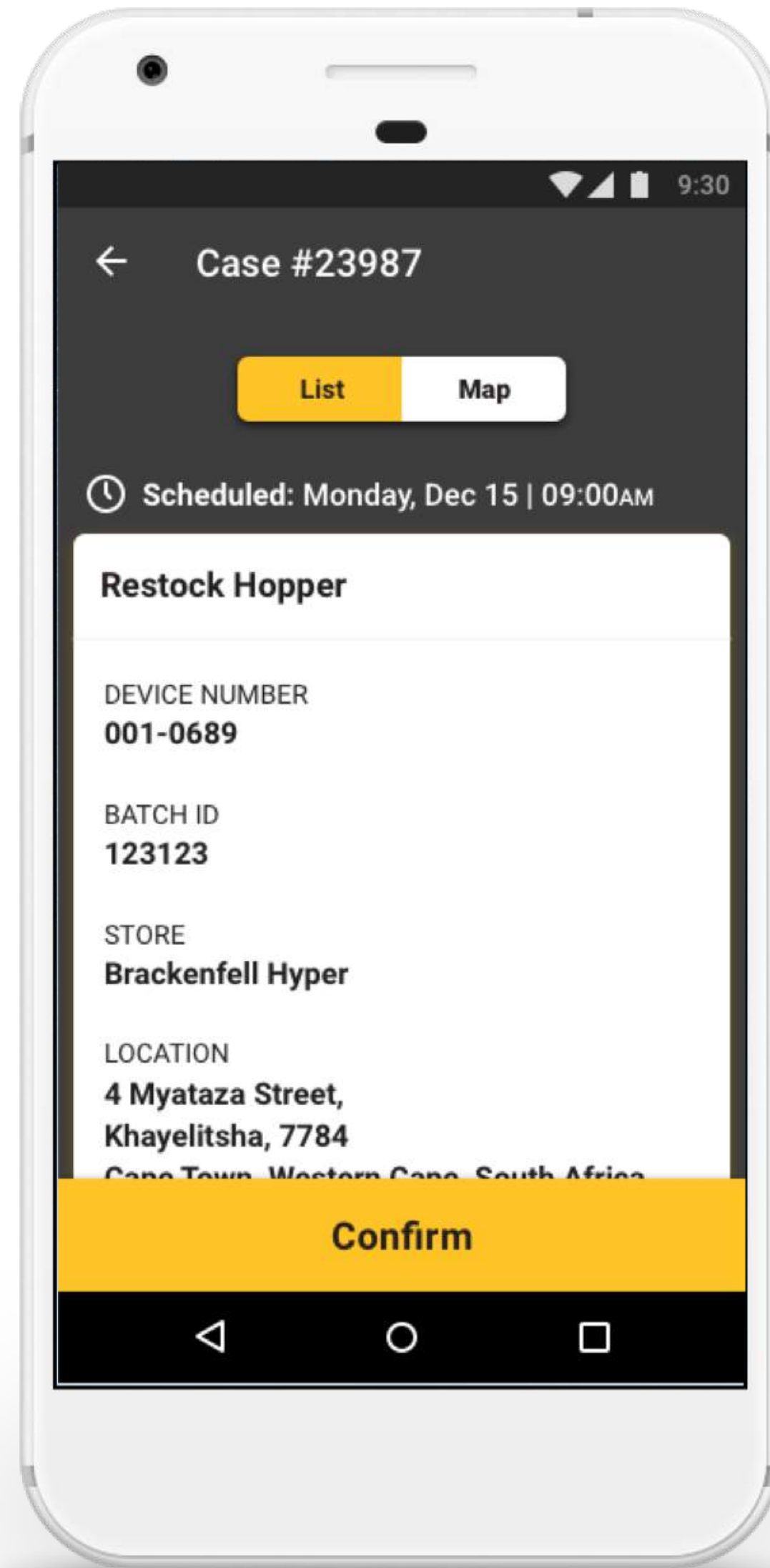
The app UI draws directly from the Tyme Digital brand color palette. Yellow is used strategically, emphasizing important calls to action and other tappable elements. While the app is a utility app, that doesn't mean it can't have it's own distinct personality. Delighters in the form of custom pictograms lend visual interest to the experience.



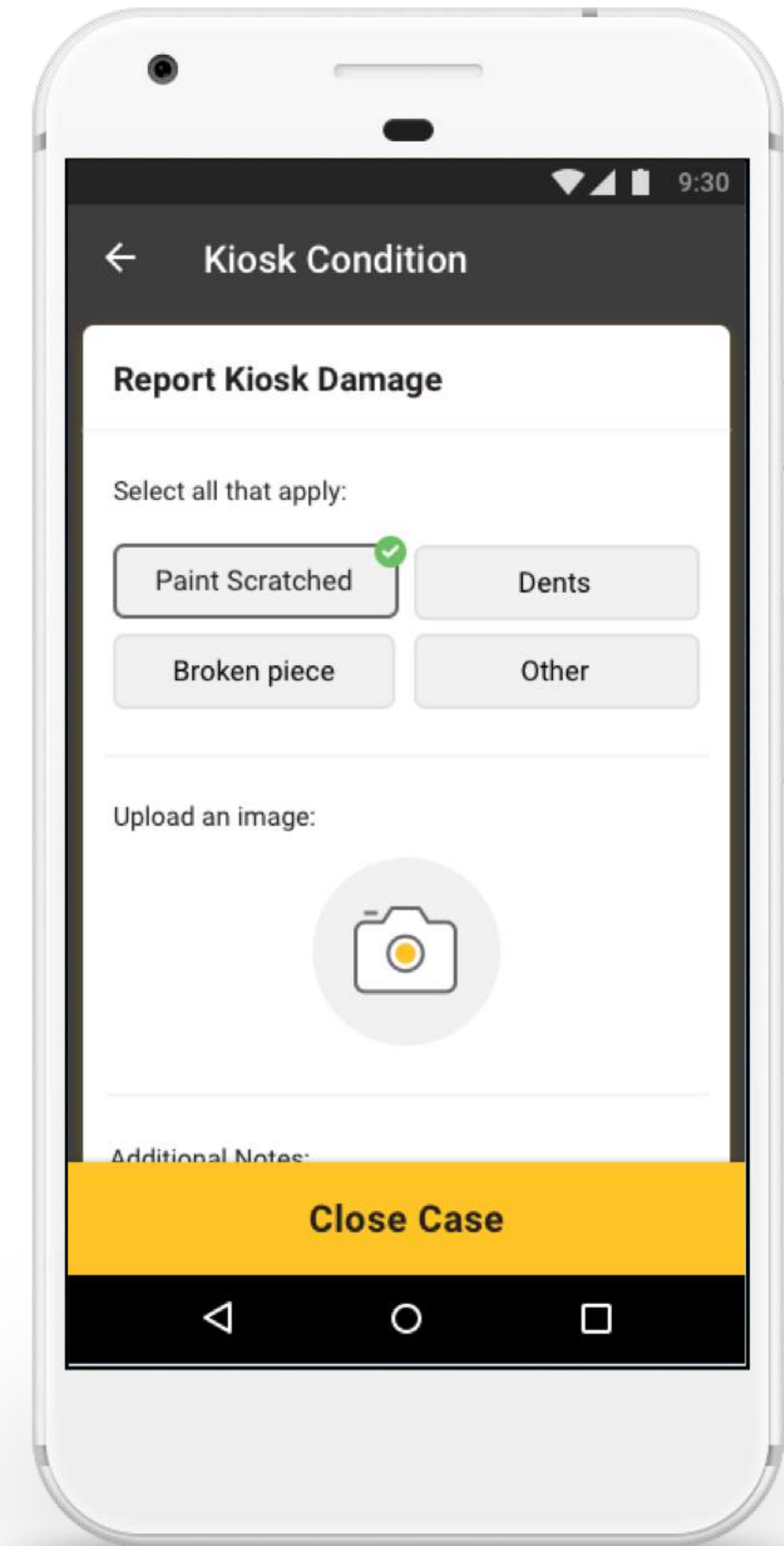
LOOK & FEEL



Worklist Screen



Case Details Screen



Report Damage Screen

STYLEGUIDE

The purpose of a style guide is to provide a reference point moving forward for modifying or including new design elements within Tyme Digital's Field Services application. The recommendations within are aimed at providing a consistent user experience based on both User Experience best practices and the formal Tyme Digital branding guidelines.

05 ICONOGRAPHY

Icons are visual cues used to represent features, functionality, or content. Icons are meant to be simple, visual elements that are recognized and understood immediately. All of the icons in the app should look as if they were meant to be part of a set or family, using the same line-weight, color scheme, and rounded edges.

ICONS



ILLUSTRATIONS



SERIAL # CONFIRMED



LOCATION CONFIRMED



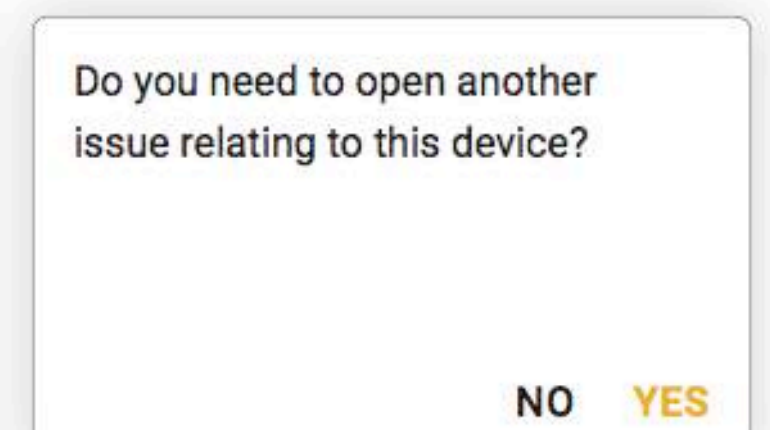
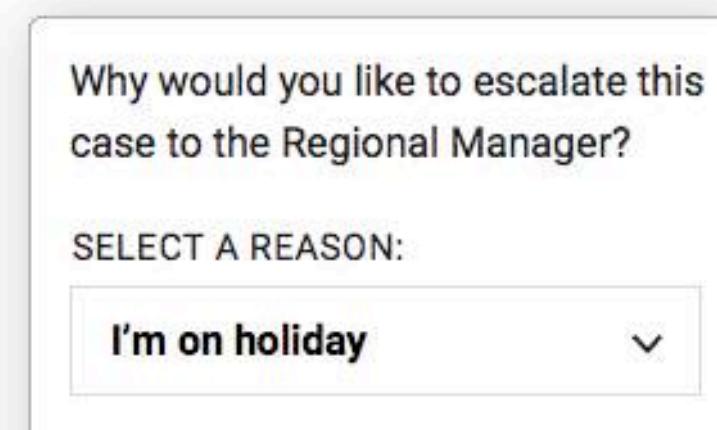
CARD COUNT CONFIRMED



TAKE PHOTO

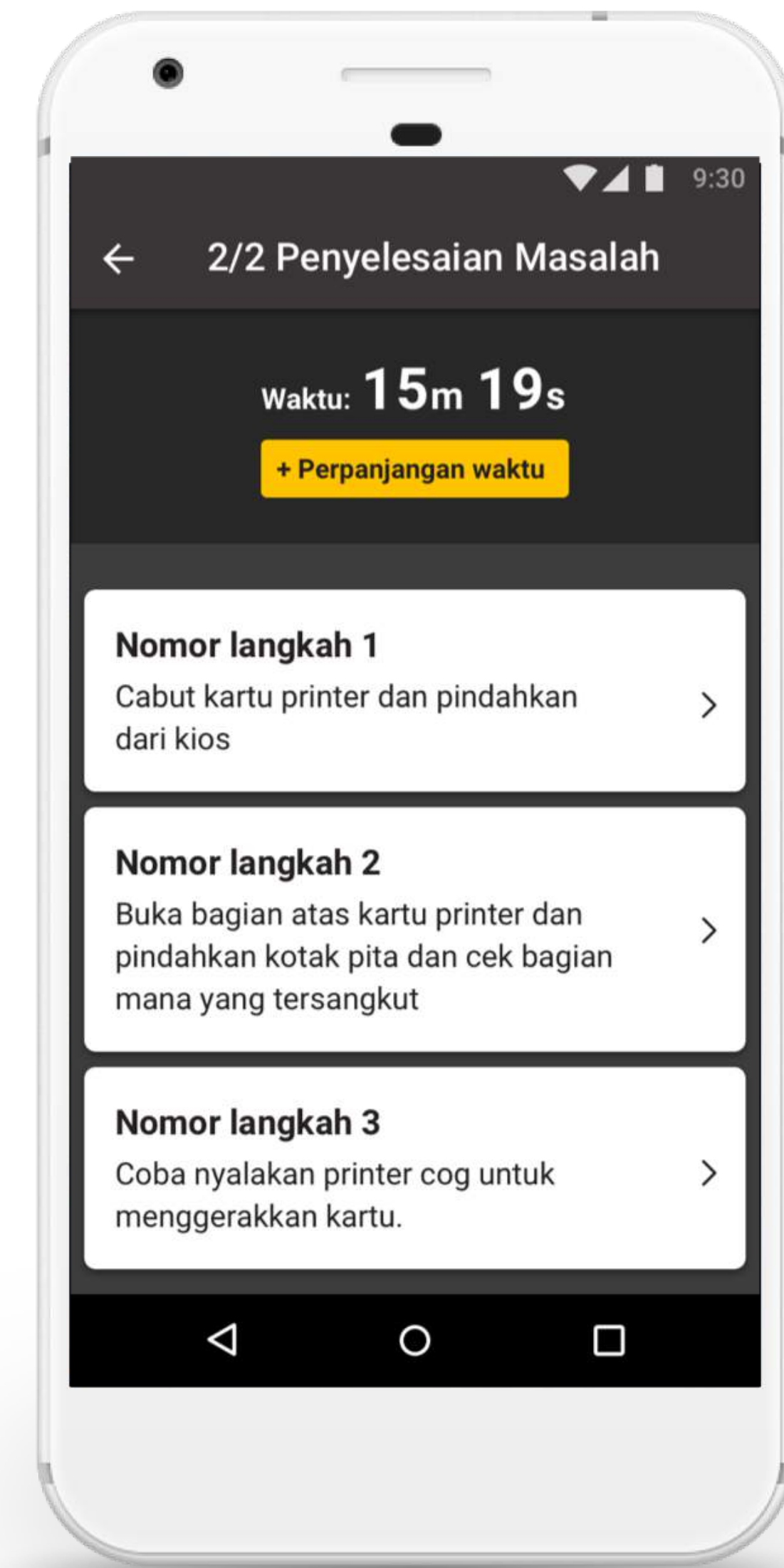
06 MODALS

A modal should be used only when you want to interrupt a user's current task to catch the user's full attention to something more important. Modals are meant to grab the user's attention and halt all other actions until a message is dealt with or dismissed. Users cannot interact with your application until the modal is closed, and so modals should be used sparingly.



LOCALIZATION

Because Tyme Digital will roll out kiosks in several different locations throughout the globe, the app has been designed with localization in mind. The Pega platform is flexible and can support languages other than English -- in this case, Indonesian Bahasa.



HEY TYME DIGITAL,

THANK YOU!

– ACCENTURE