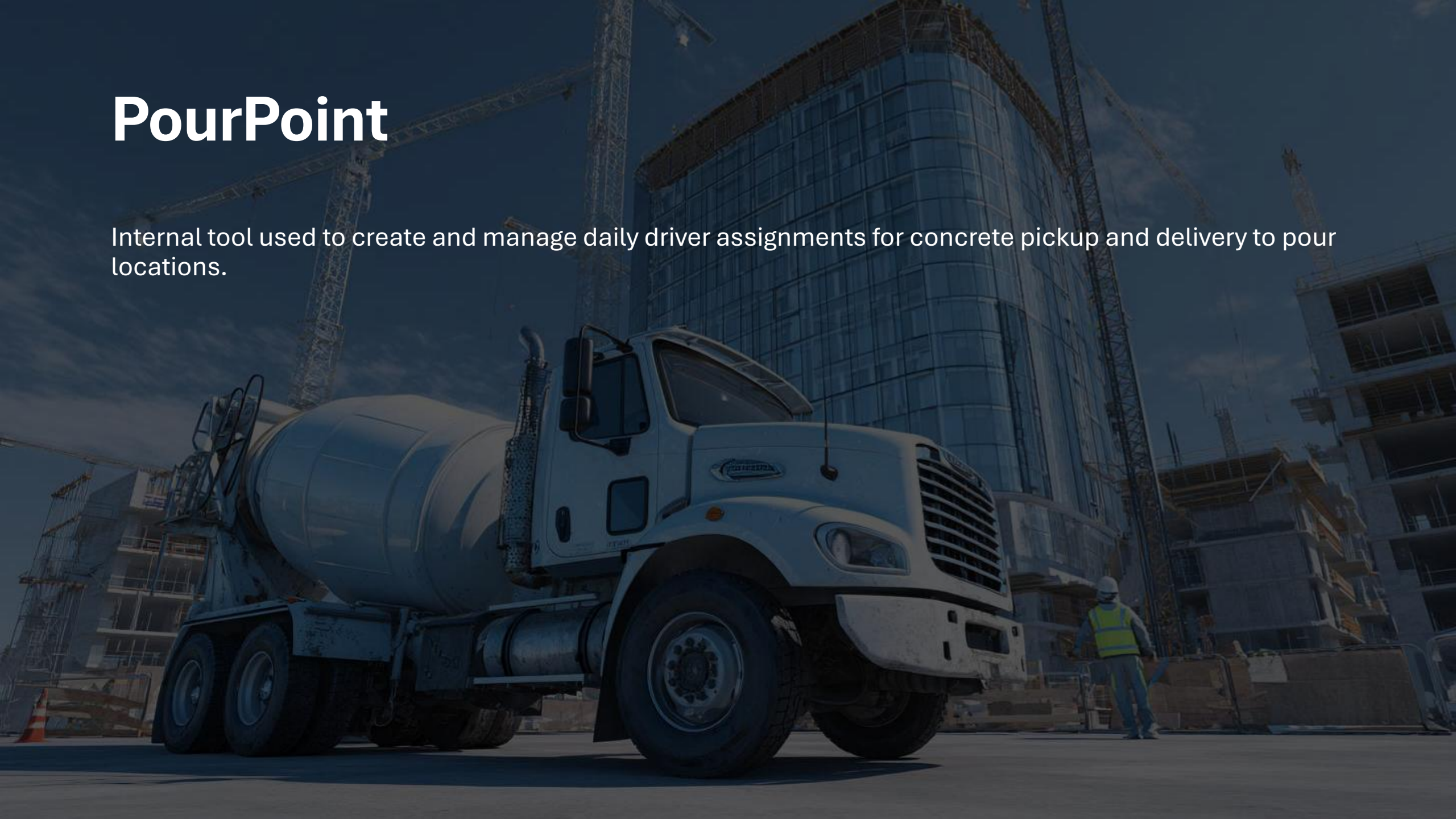
PourPoint

Internal tool used to create and manage daily driver assignments for concrete pickup and delivery to pour locations.



Construction logistics operations operate under constant time pressure, coordination overhead, and human constraints. Dispatchers must balance changing schedules, driver availability, and delivery timing using a mix of systems, paperwork, and institutional knowledge. Small delays or miscommunications can cascade quickly, creating inefficiencies for both office staff and drivers in the field. This context sets the stage for why clarity, reliability, and low-friction tools are essential in daily dispatch workflows.

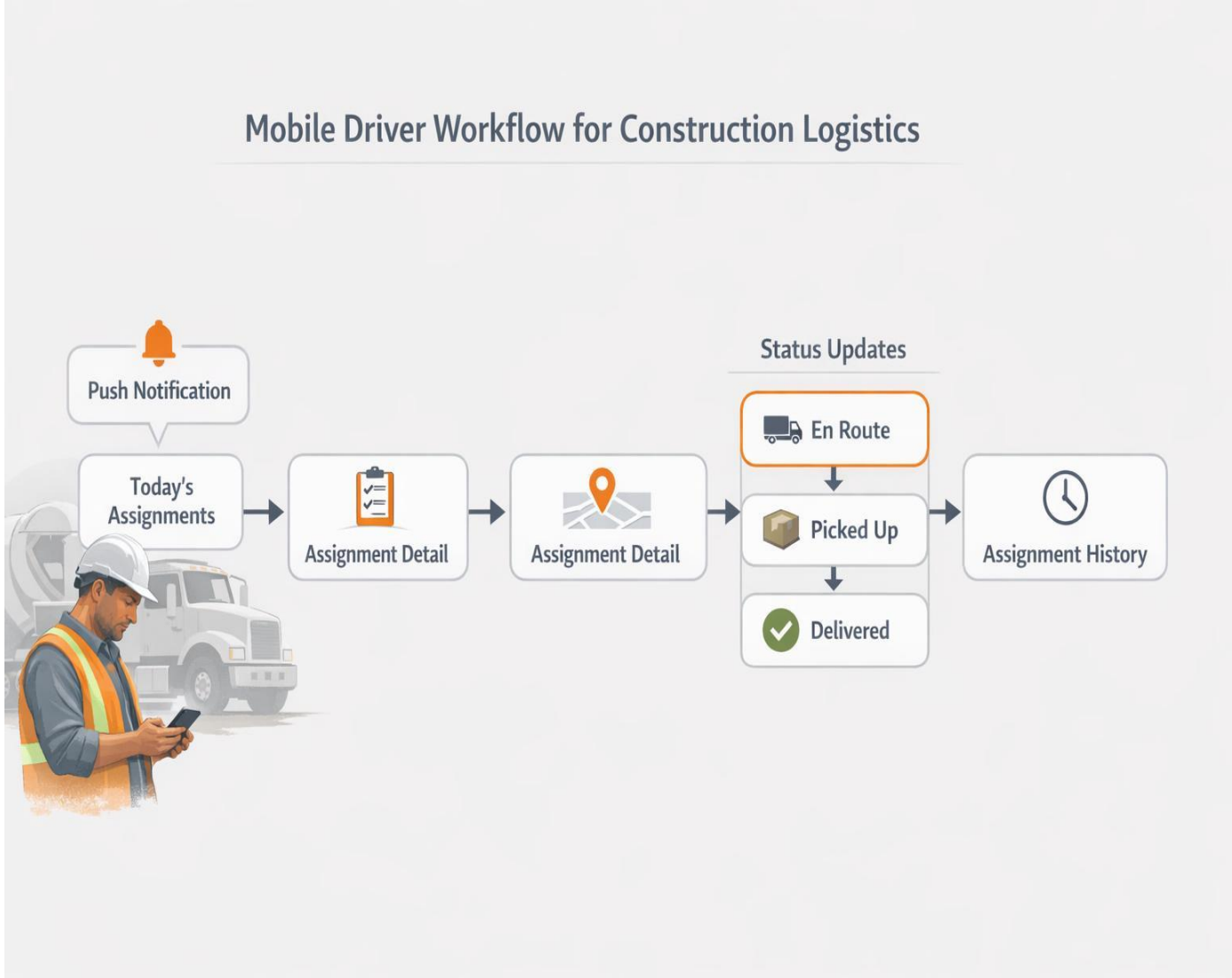
Solution & Design Approach

The solution focuses on simplifying complex coordination into clear, role-appropriate workflows that reflect how dispatchers and drivers actually work. Architectural choices emphasize reliability, offline tolerance, and predictable system behavior, while UX decisions prioritize clarity, low cognitive load, and fast task completion. Rather than adding features, the design removes friction by aligning screens, actions, and data visibility with real operational needs. This approach ensures the system supports daily work without becoming another source of overhead.

Dispatcher User Flow

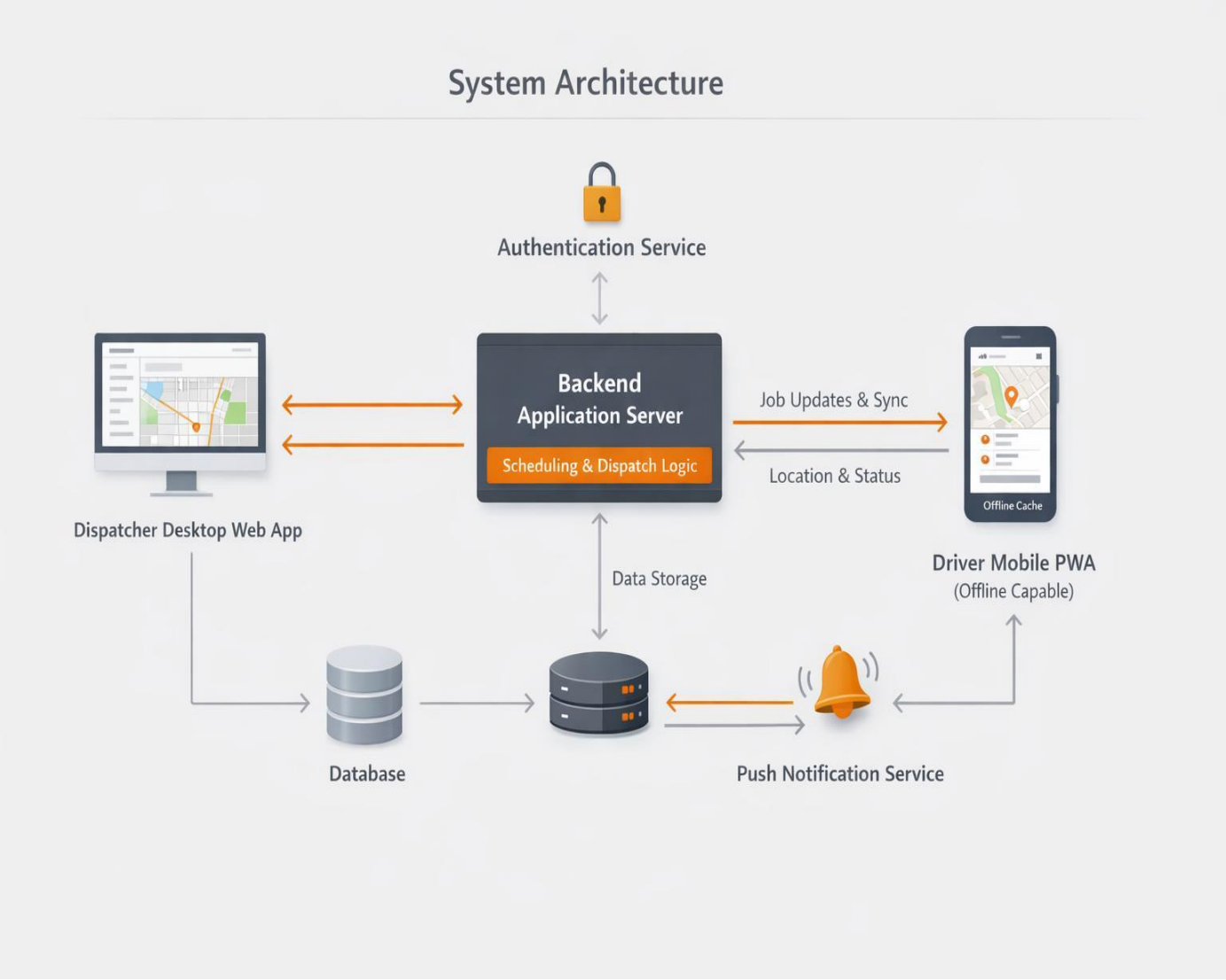
This flow illustrates a typical dispatcher workflow from planning to execution during a normal workday. Dispatchers begin by reviewing the day's schedule, create or adjust delivery entries, assign drivers based on availability, and confirm assignments before work begins in the field. Each step is intentionally sequenced to minimize backtracking and reduce decision fatigue. The flow emphasizes clarity, predictability, and smooth handoffs between planning and execution.

Driver User Flow



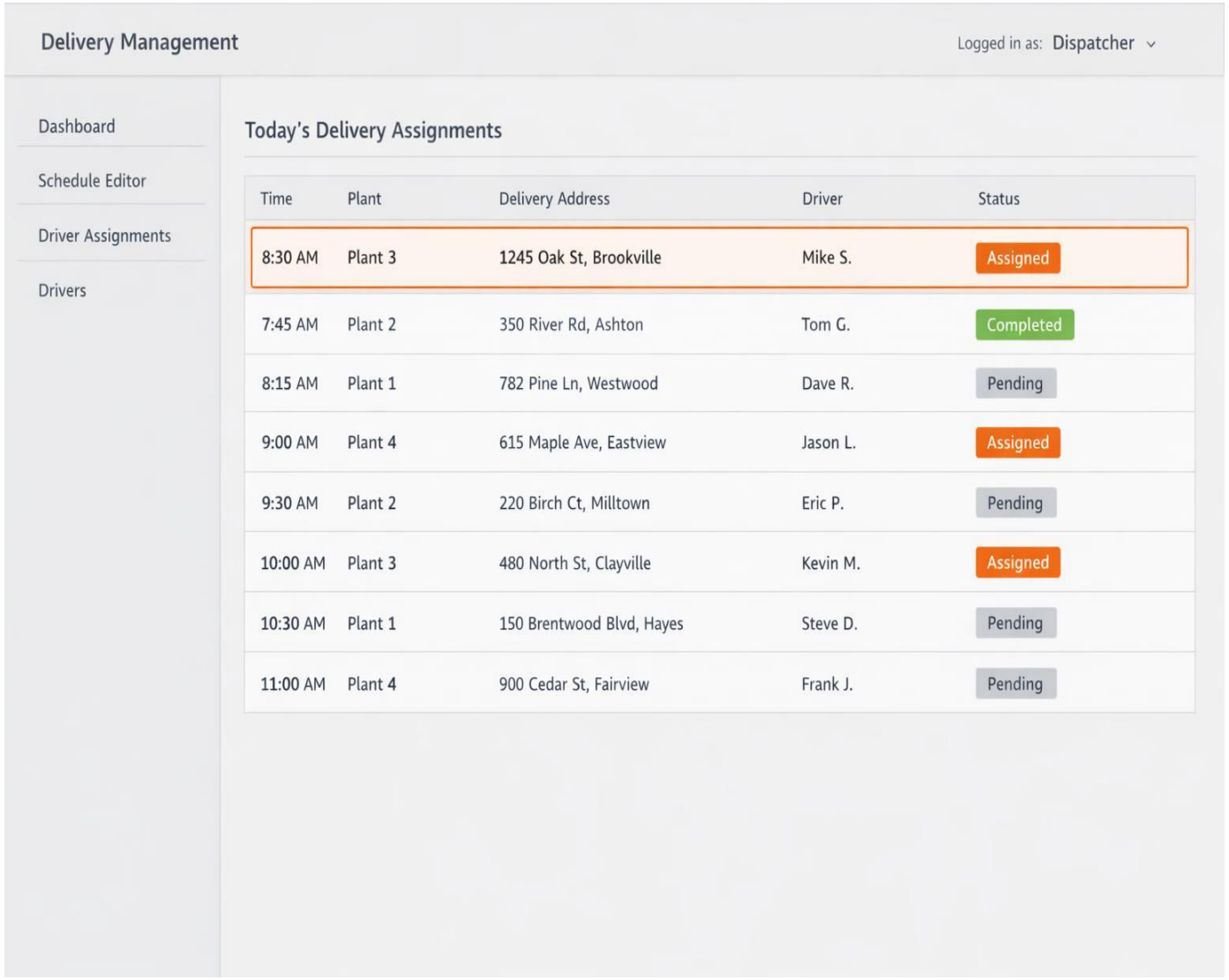
This flow represents how drivers interact with the system throughout a typical workday, from receiving assignments to completing deliveries. The experience is designed to surface only what is immediately relevant, guiding drivers through clear status updates without unnecessary choices or complexity. Each step supports quick comprehension and minimal interaction, allowing drivers to focus on driving and delivery rather than managing software. Completed work is clearly separated from active assignments to maintain focus and reduce distraction.

System Architecture Diagram



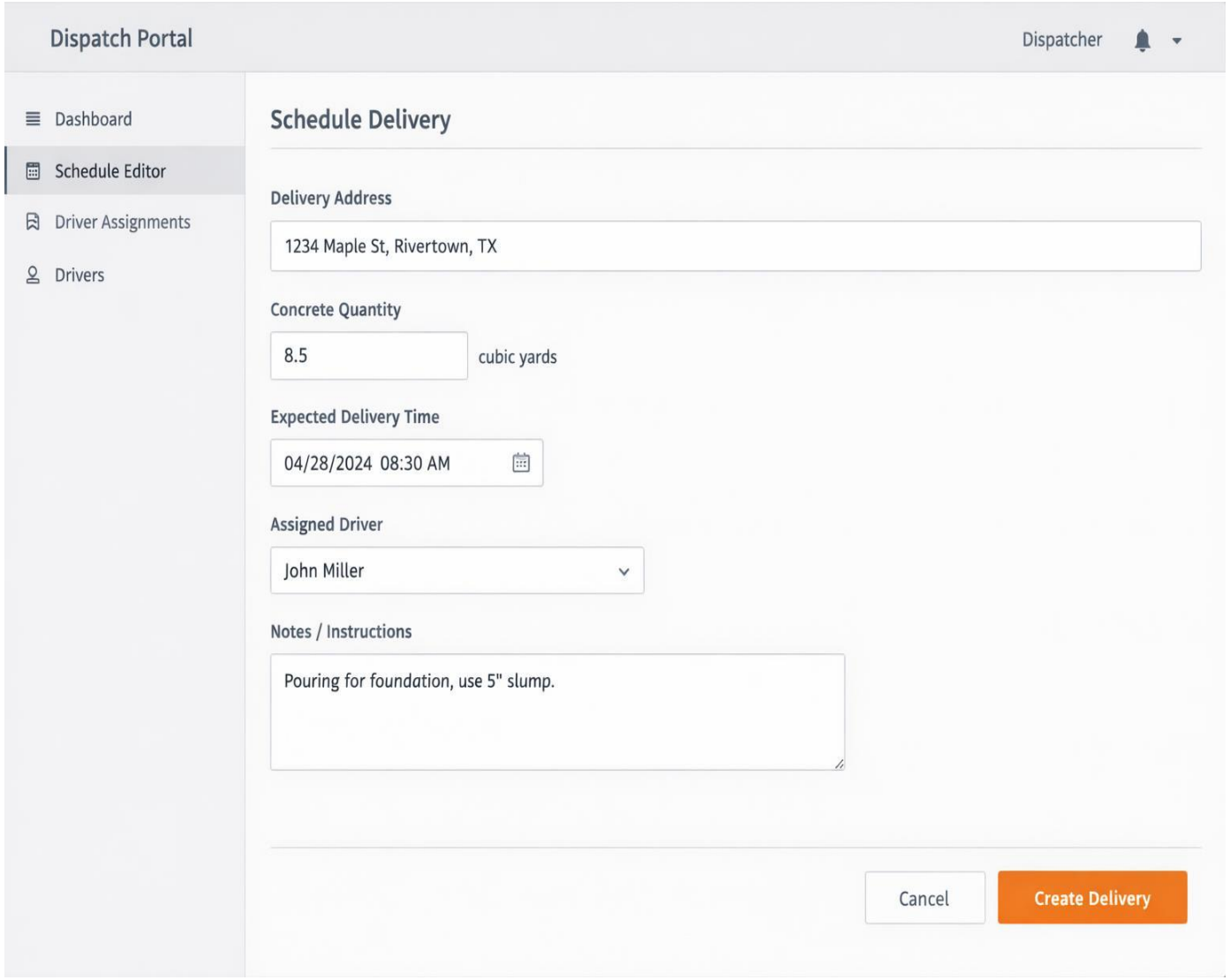
This diagram presents the high-level architecture that supports both dispatcher and driver workflows without tying the solution to specific vendors or infrastructure choices. The system is designed around clear separation of responsibilities, enabling reliable scheduling, secure access, and consistent data flow between office and field. Offline support and push notifications ensure drivers remain informed even in low-connectivity environments, while the backend coordinates state, synchronization, and validation. The architecture prioritizes predictability, resilience, and clarity over technical complexity.

Dashboard



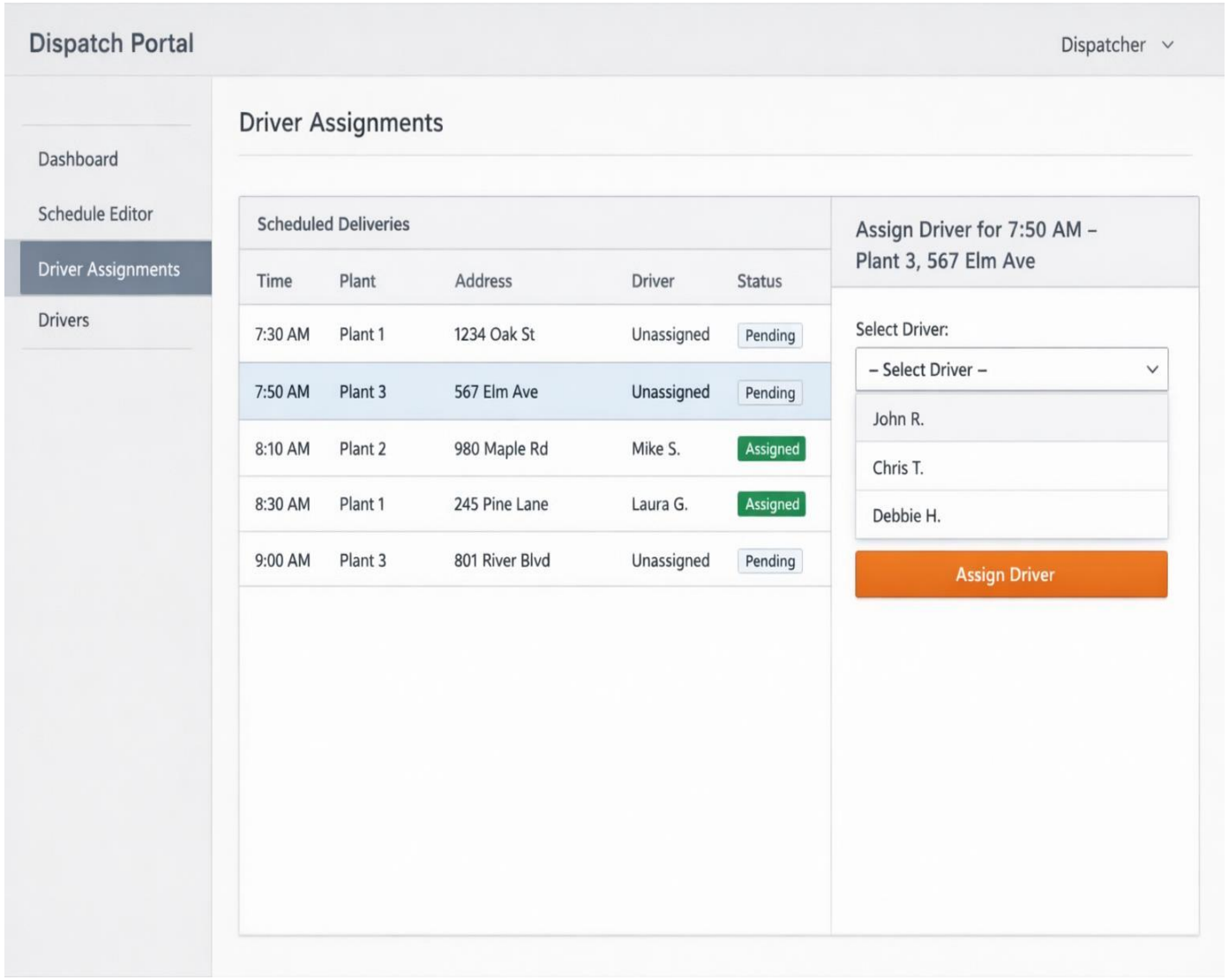
The dashboard serves as the primary operational workspace for dispatchers at the start and throughout the day. It provides a clear, prioritized view of current delivery assignments, allowing staff to quickly assess status, identify issues, and navigate to detailed scheduling or assignment tasks. The layout is intentionally restrained, focusing attention on active deliveries rather than secondary metrics or analytics. This screen is designed to reflect a realistic, busy workday while remaining predictable and easy to scan under time pressure.

Schedule Editor



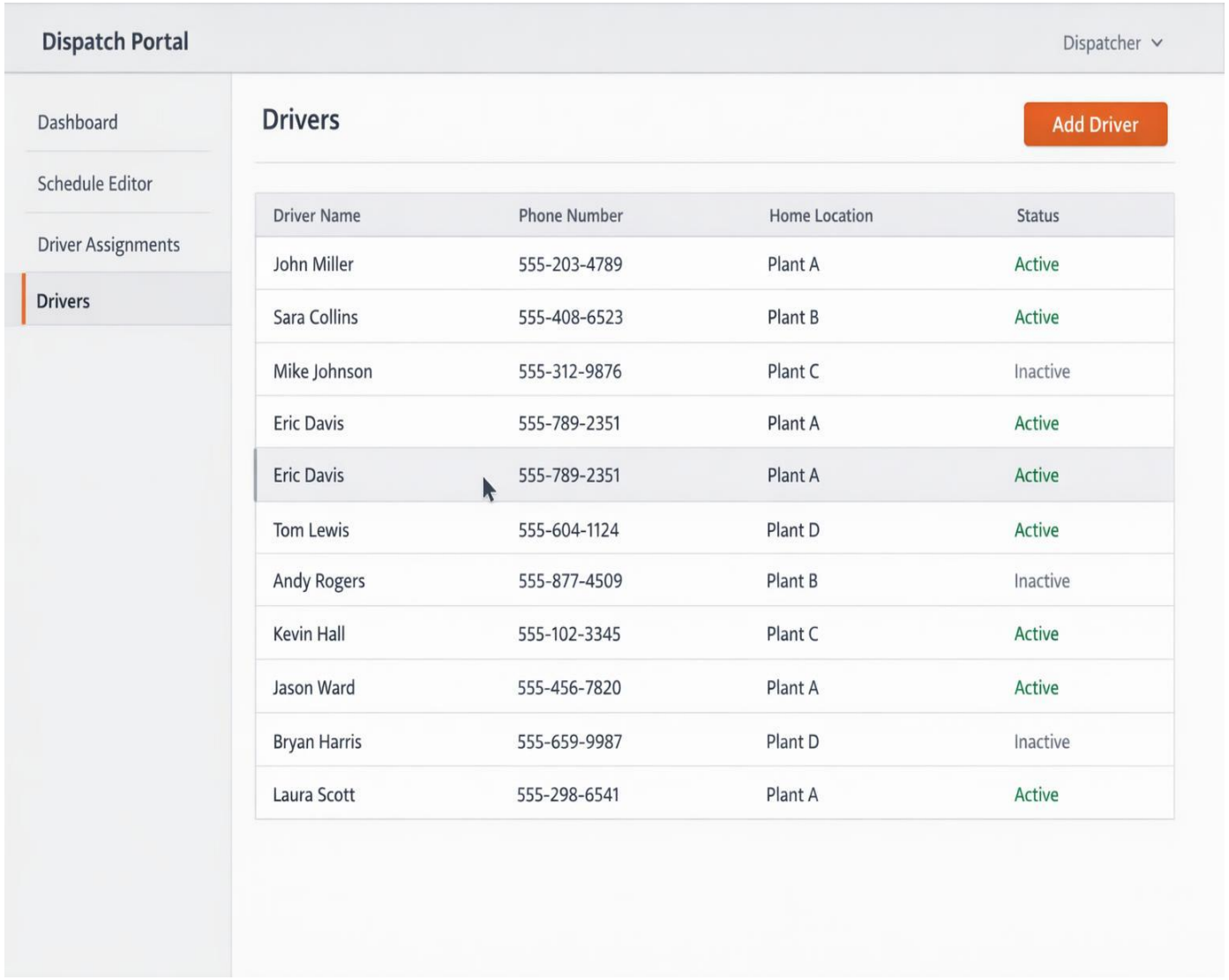
The Schedule Editor is designed for fast, accurate entry of delivery details during a dispatcher's planning workflow. It provides a structured, form-based layout that reduces ambiguity while supporting frequent updates throughout the day. Validation and feedback are intentionally subtle, allowing dispatchers to work quickly without interruption. This screen emphasizes clarity and predictability, ensuring scheduling tasks can be completed efficiently under real operational conditions.

Driver Assignment



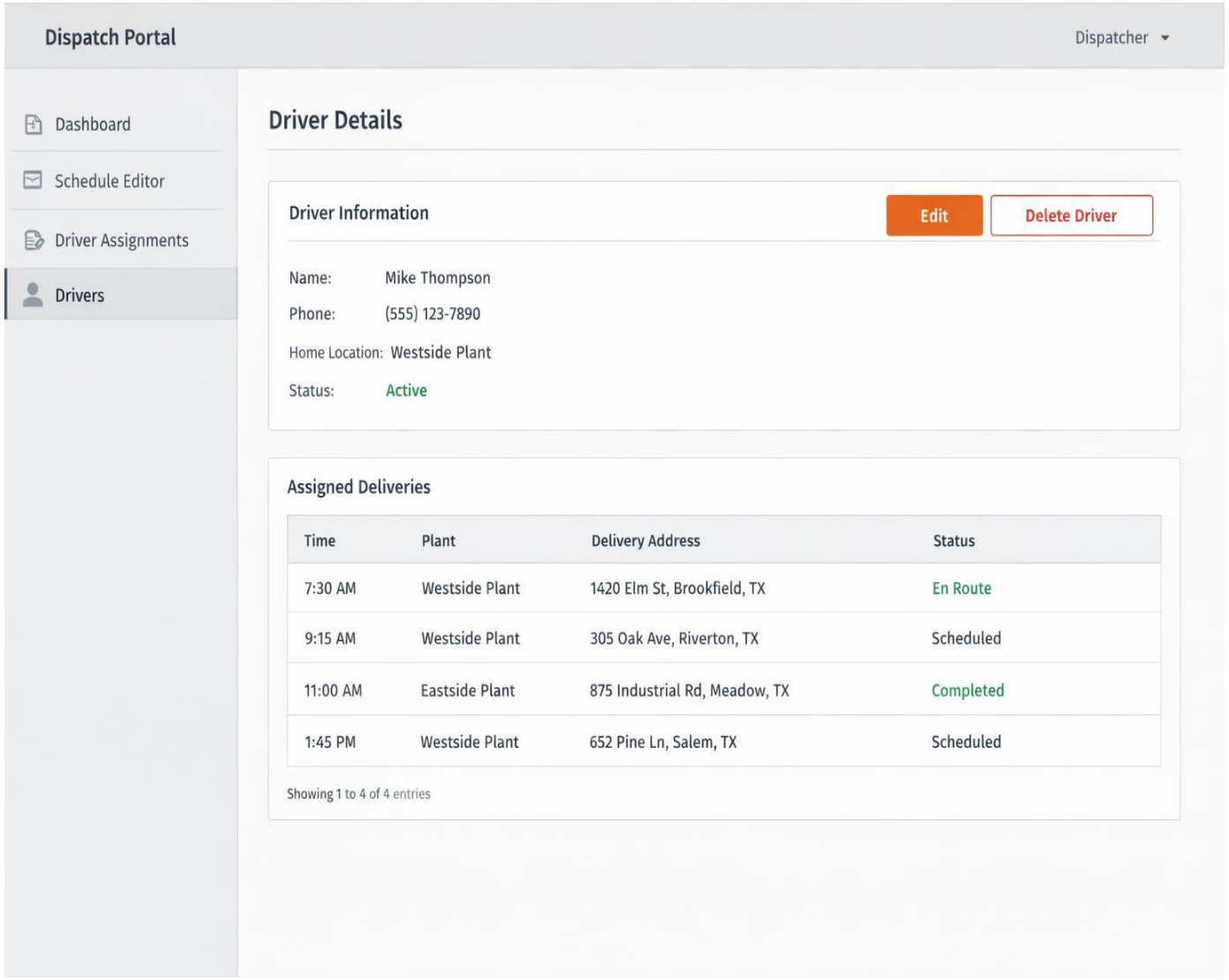
The Driver Assignment screen supports one of the most critical dispatcher decisions: matching deliveries with available drivers. It presents delivery details and driver options side by side, allowing assignments to be made quickly and confidently. Clear status indicators help dispatchers understand what is pending, assigned, or completed at a glance. The design minimizes friction and ambiguity, ensuring assignments can be managed efficiently during busy operational periods.

Driver List



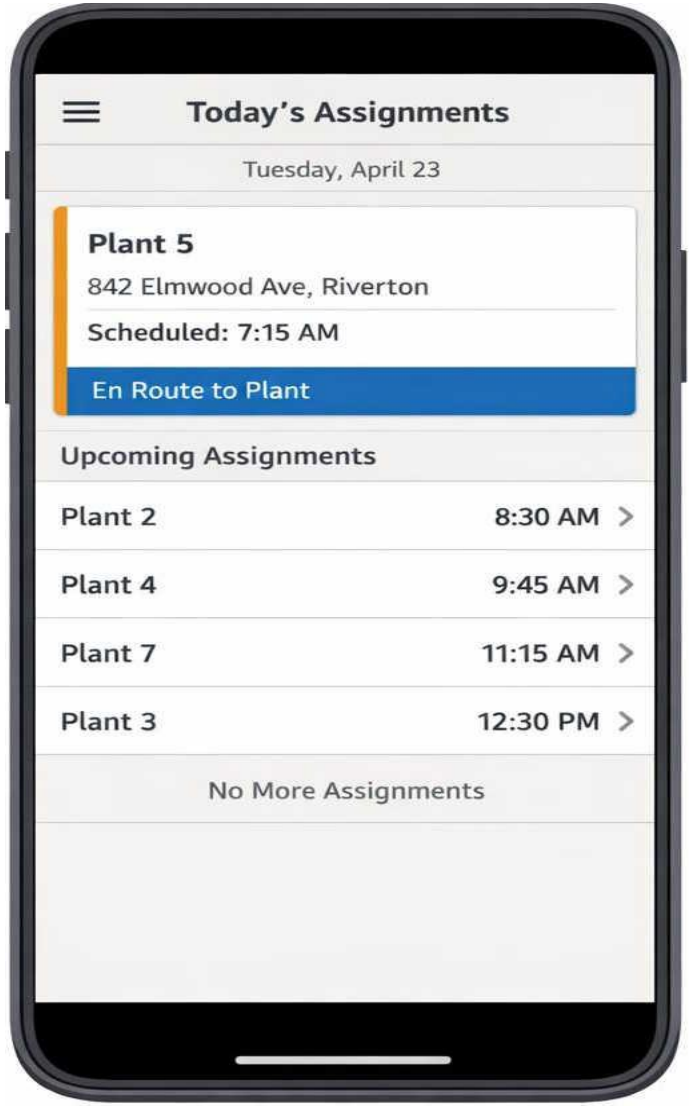
The Driver List provides dispatchers and back office staff with a clear, centralized view of all available drivers. It is designed for quick scanning, simple maintenance, and fast navigation to individual driver records when updates are needed. By keeping the layout straightforward and action-oriented, the screen supports routine administrative tasks without adding unnecessary complexity. This view serves as the foundation for accurate assignments and day-to-day operational continuity.

Driver Details



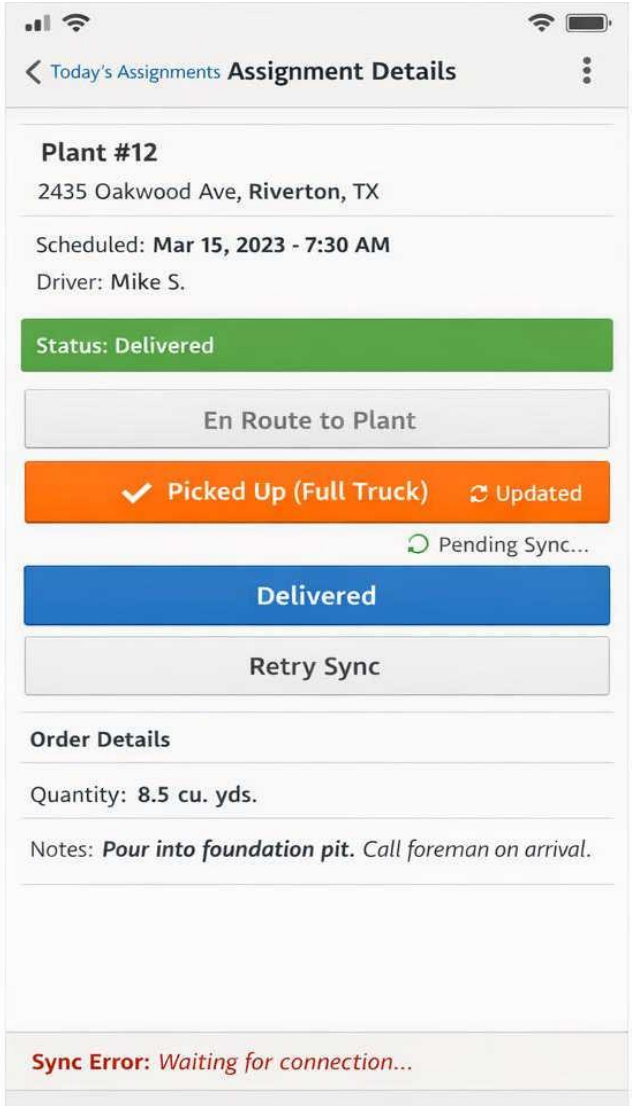
The Driver Details screen provides dispatchers with a focused view of an individual driver's information and current workload. It brings together contact details, status, and assigned deliveries in a single, predictable layout to support quick updates and informed decisions. Administrative actions such as editing or removing a driver are clearly separated from day-to-day viewing to reduce accidental changes. This screen supports accurate driver management while maintaining clarity and control in busy operational environments.

Today’s Assignments



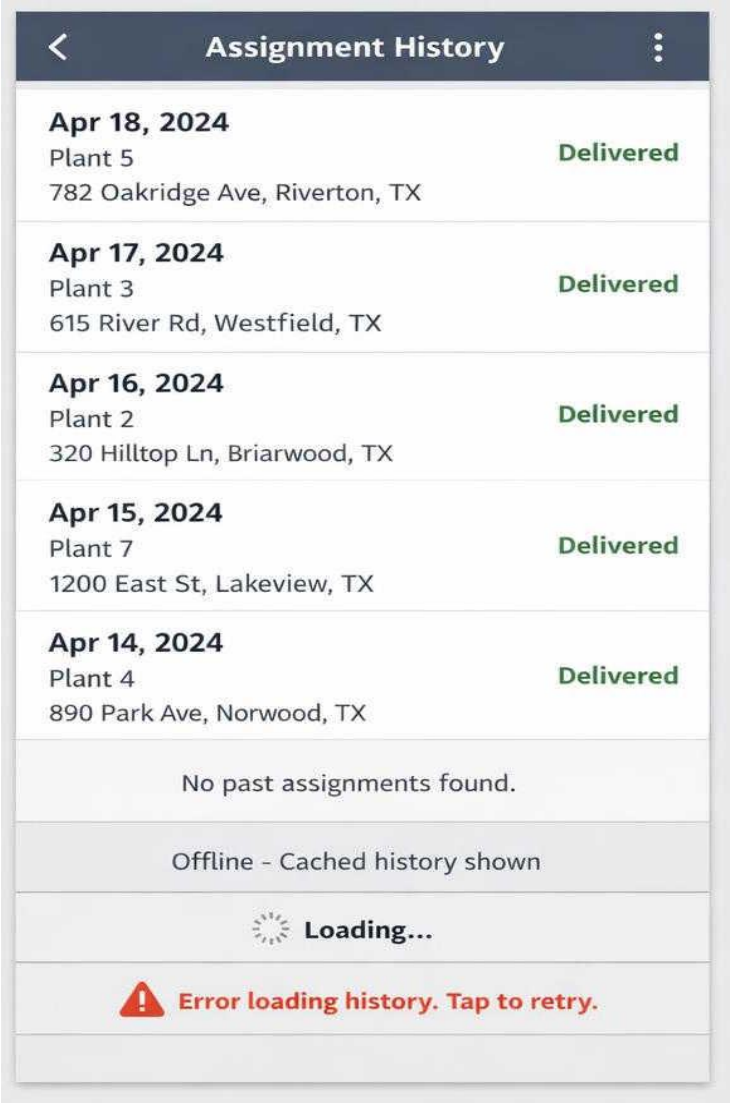
The Today’s Assignments screen acts as the primary home view for drivers at the start and throughout the workday. It surfaces the next active delivery prominently, while keeping upcoming assignments visible without distraction. The layout is optimized for quick glances and minimal interaction, allowing drivers to understand priorities and update status efficiently in real working conditions. Offline support ensures assignments remain accessible even when connectivity is limited in the field.

Assignment Detail



The Assignment Detail screen provides drivers with all relevant delivery information in one focused view while enabling fast, reliable status updates. It is designed for use in real working conditions, with large tap targets and clear separation between information and actions. Status progression is deliberately constrained to prevent errors and reduce cognitive load during active deliveries. Offline support ensures that updates can be captured immediately and synchronized automatically when connectivity is restored.

Assignment History



The Assignment History screen allows drivers to review completed deliveries without cluttering the active workflow. It is designed for occasional lookup rather than frequent interaction, providing clear, concise records ordered by recency. By separating historical reference from active tasks, the screen helps drivers stay focused on current work while still maintaining access to past delivery information. Offline access ensures history remains available even when connectivity is limited.

Assignment Push Notification

The assignment push notification serves as a timely, low-disruption alert that informs drivers when a new delivery has been assigned. It is designed to be immediately understandable at a glance, providing essential context without requiring the driver to open the app. Tapping the notification deep-links directly to the relevant assignment, reducing friction and ensuring drivers can respond quickly when schedules change. This approach keeps drivers informed while respecting the realities of in-field work and limited attention.