

Pool Management App

Introduction:

We built a Pool Management App in React Native to digitally manage the operational aspects of commercial swimming pools. The platform enables swimming pool managers to handle staff scheduling, time clock, chemical records, checklists, forms, maintenance issues, staff certifications, in-services, messaging, swimming-lesson schedules, and member management.

Client Details:

Name: Confidential | **Industry:** Software | **Location:** USA

Technologies:

Technology: React Native, JavaScript, TypeScript, Redux-toolkit

IDE: Xcode, Visual Studio, Android Studio

Third-party Libs: react-native-gifted-chats, react-native-firebase@app, react-native-signature-canvas, react-native-paper, @rnmapbox/maps, react-native-biometrics, react-native-calendars

Packaging: Homebrew, watchman, yarn

Backend Tech-Stack: Ruby on Rails, Sidekiq, Redis, MySQL, AWS S3, Cloud 66, Cloudflare.

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Project Description:

We developed an all-in-one platform to streamline every aspect of pool operations.

Operations & Scheduling

- Day-wise calendar for scheduling staff
- Push notifications for shift reminders and sub requests
- Dynamic time zone support — users choose their time zone and all data aligns automatically

Checklists & Maintenance

- Digital facility checklists with real-time completion tracking
- Maintenance request tracking and updates
- Digital signature support for approvals and accountability

Communication & Collaboration

- Live chat feature was built using Action Cable
- Mapbox integration to pin and track facility locations

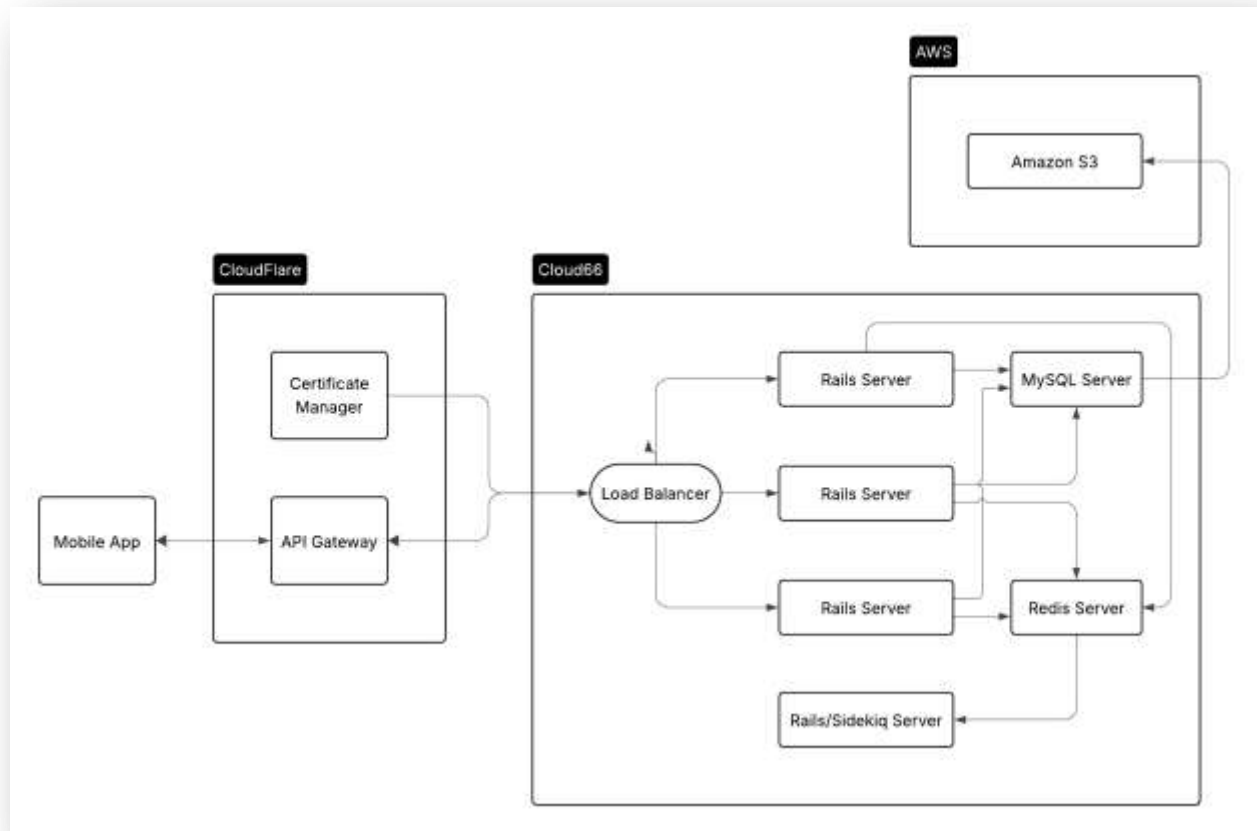
Security & Reliability

- Biometric authentication for secure access
- Rollbar dashboard integration for real-time error and crash tracking

The application is used by over 22,000 pool managers, aquatics supervisors, recreation directors, and aquatics employees to run their pools faster, smarter, and paper-free.

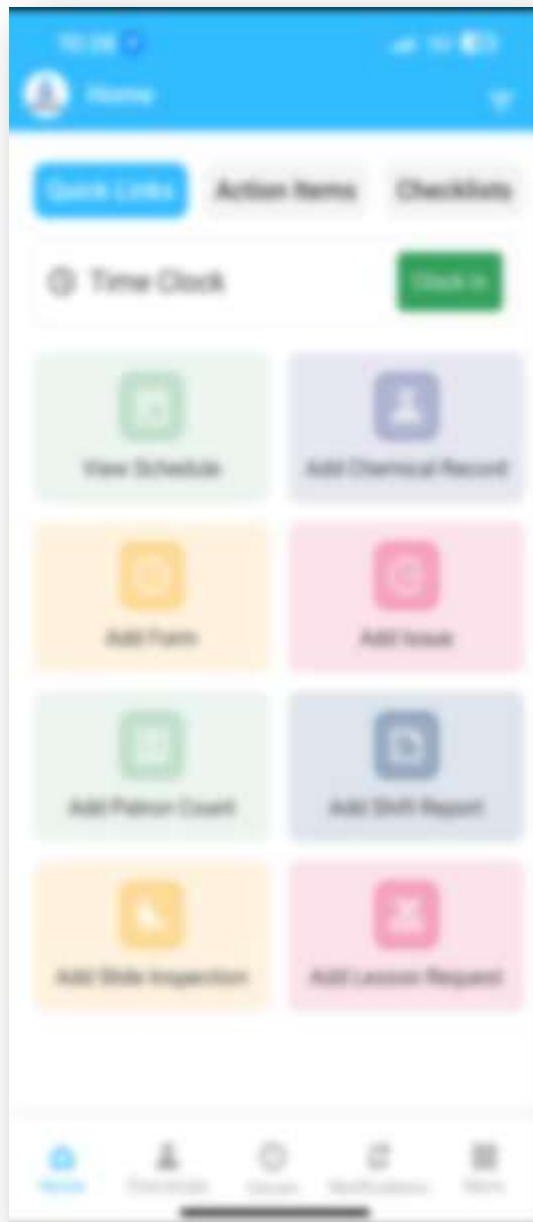
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Architecture Diagram:

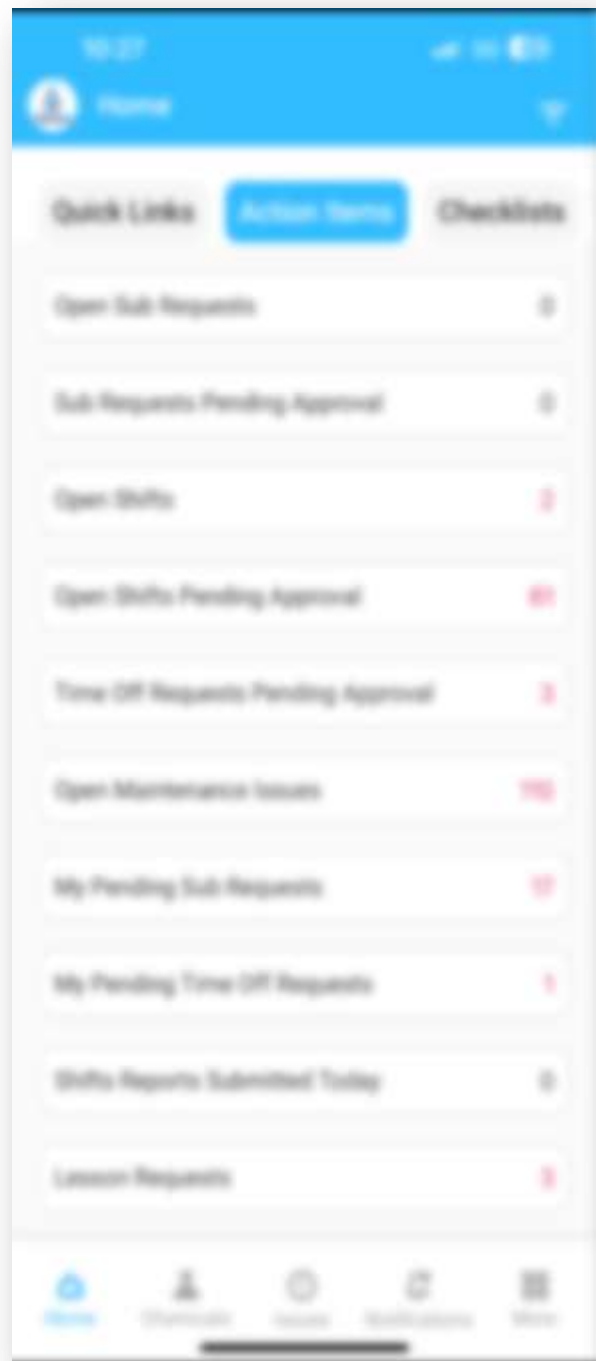
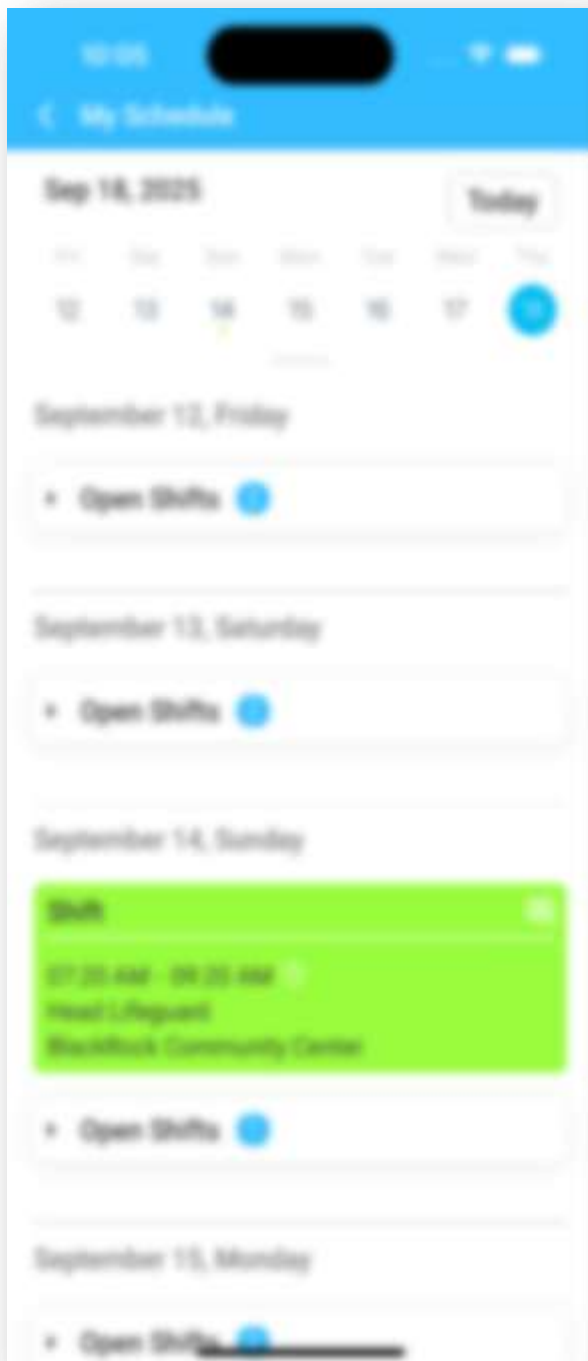


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Screenshots:



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