QuadraUX Powered By QuadraSoft

(Framework to build frontend applications)

A Lightweight, High-Performance Windows Application Framework

for Enterprise-Grade Desktop Solutions.

Problem Statement

Building production-ready Windows desktop applications is challenging due to:

- Complex frontend architecture design
- Handling async operations and TCP communication
- Managing updates, logging, and error tracking
- Ensuring performance with low RAM usage
- Securing application code and UI assets
- Maintaining version control and deployment consistency
- Developing admin terminals that integrate smoothly with backend systems

Resulting Impact:

Long development cycles, unstable releases, and high maintenance effort.
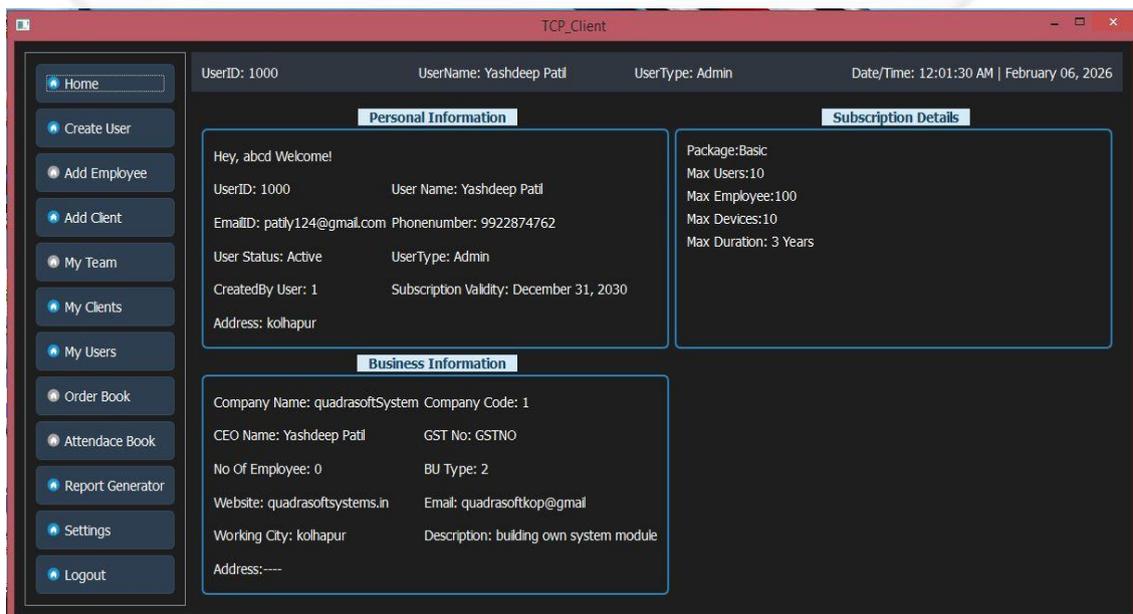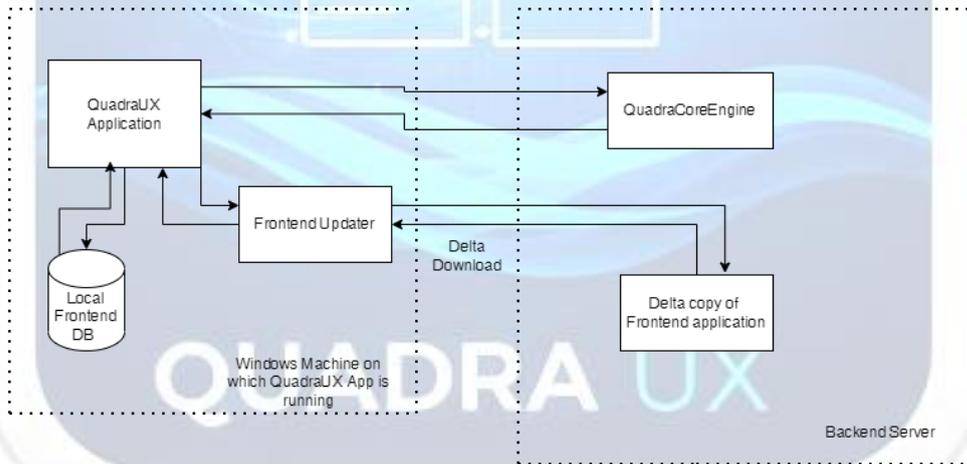
Solution

QuadraUX is a Windows-based frontend framework designed for admin terminals and enterprise desktop applications.

It provides a predefined architecture, so developers only implement:

- o Business logic
- o Backend API calls
- o Required UI Designing

Everything else — performance, updates, logging, packaging, and infrastructure — is handled by the framework.
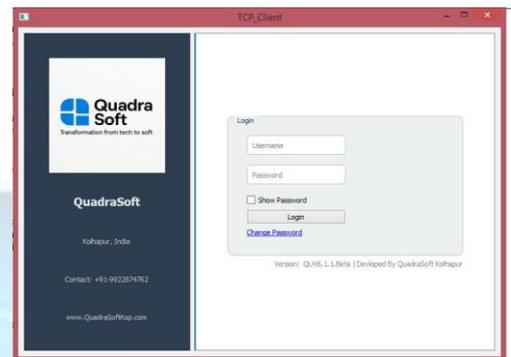
Flow Diagram :-

www.quadrasoftsystems.in

quadrasoftkop.assist@gmail.com

+91-9359543651

www.quadrasoftsystems.in/contact

QuadraSoft System

Key Features

Windows Frontend Framework
- Lightweight Windows-based application engine
- Suitable for mid to large scale frontend systems
- Works in online, offline, and cloud-connected modes

Performance Optimized
- Low boot time
- Low RAM usage
- Production-grade async TCP communication

Auto Update System
- Delta-based update mechanism
- Efficient online update handling
- Version-controlled application management

Local Database Integration
- Integrated lightweight frontend database
- Supports offline and hybrid operations

Logging & Debugging
- Built-in logging system
- Easy debugging and issue tracking
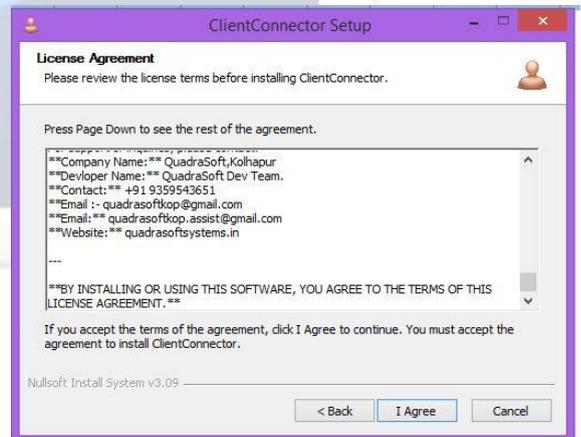

Predefined Architecture
- Structured UI framework
- Developers focus only on frontend business logic
- Backend API integration ready

Advanced UI Support
- User-friendly templates
- Easy screen modifications
- Dark mode / Light mode support
- Role-based UI access control

Security & Code Protection
- Setup builder encapsulates code in binary format
- Business logic and UI assets are non-readable
- Secure distribution to client machines
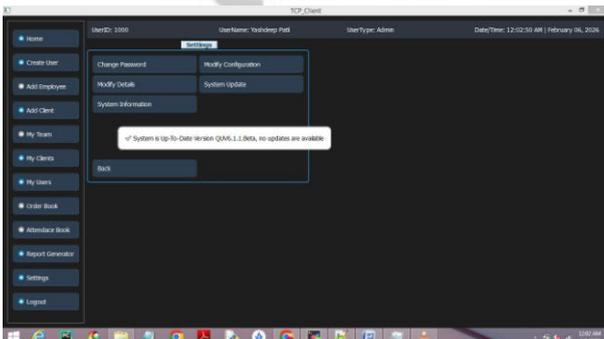

Package Builder
- Integrated package builder tool
- Generates Windows executable & installer
- Encapsulates required libraries

Subscription & Trial Support
- Subscription-based activation/deactivation
- Trial version management supported

Runtime Management
- System notifications
- Application updater
- Live runtime management

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Benefits
- Faster desktop application development
- High performance with low resource usage
- Secure code & UI protection
- Seamless update management
- Easy integration with QuadraCore backend
- Reduced maintenance effort
- Modern, customizable UI framework
- Production-ready from day one

Who Is This For
- Enterprise internal admin tools
- Control panel applications
- Hardware-integrated desktop systems
- Mid to large vendors building Windows software
- Organizations needing secure, performance-focused desktop apps

Why Choose Us
- Pre-built architecture saves months of work
- Fully integrated with Quadra ecosystem
- Performance-focused Windows framework
- Secure application packaging
- Long-term technical partnership model
- Rapid support & hotfix capability

Deployment Options
- On-Premise desktop deployment
- Cloud-connected desktop system
- Offline / Hybrid application models

Support &Maintenance
- We offer:
    - Code-as-a-Service model
    - Active development support
    - Hotfix implementation (same-day when required)
    - Long-term support agreements
    - Version management & update support
    - Continuous framework improvements

Looking forward to doing business with you. For our business model details, pricing, and agreement information, please visit our website www.quadrasoftsystems.in/contact or contact us +91-9359543651 ,quadrasoftkop@gmail.com.

Contact Us
QuadraSoft Systems
www.quadrasoftsystems.in
quadrasoftkop@gmail.com
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