



QuadraCore Powered By QuadraSoft
(Framework to build cloud applications)

**Build Enterprise Applications Faster
Without Worrying About Performance,
Scalability, or Infrastructure.**

#eff6ff



Problem Statement

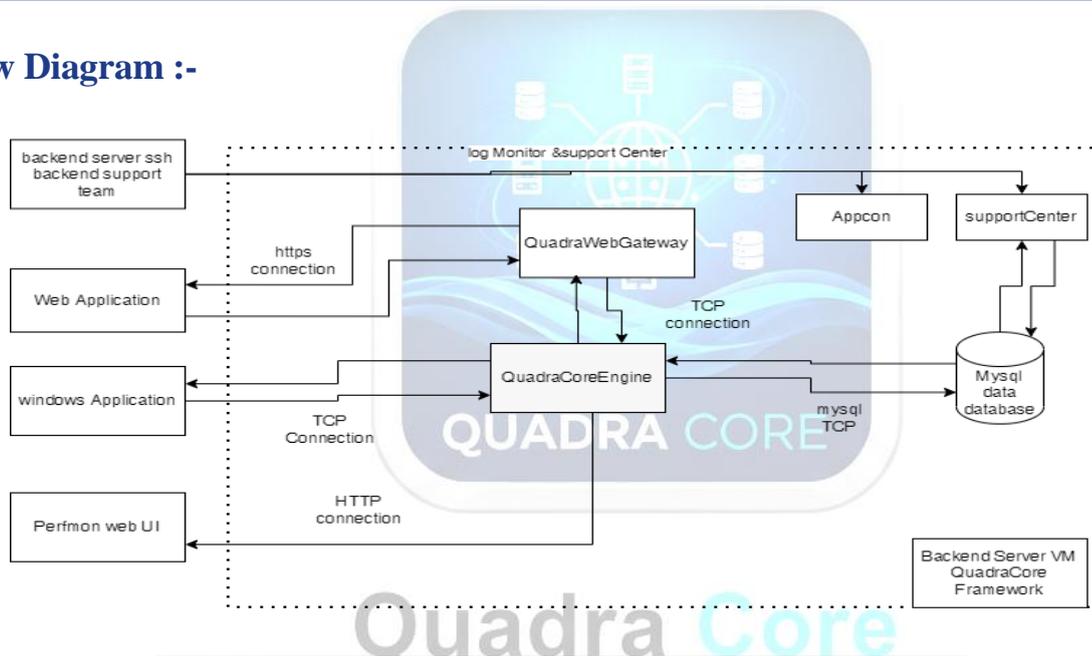
- Difficulty building scalable backend architectures for growing applications.
- Performance challenges related to concurrency, memory usage, and high transaction handling.
- Complex integration of TCP, APIs, WebSockets, databases, logging, and other core components.
- Complicated micro services design without proper structure or expertise.
- Lack of built-in monitoring, logging, and support systems, requiring extra development effort.
- Excessive time spent on framework setup and POCs instead of focusing on actual business logic.
- **Resulting Impact**
 - Delayed product go-live
 - Increased development cost
 - Production performance risks



Solution

- QuadraCore is an enterprise-grade backend framework that provides a ready-to-use, high-performance, production-ready architecture.
- It allows developers and organizations to:
 - Focus only on business logic
 - Skip framework-level complexity
 - Launch applications faster and more reliably
- QuadraCore handles the infrastructure, performance, monitoring, and scalability, so teams don't have to.

Flow Diagram :-



```

Welcome to AppCon interactive mode.
Type 'exit' to quit.
Available commands:
start <service>
stop <service>
restart <service>
status <service>
showconfig <service>
editconfig <service>
setconfig <service> section.key=value
viewlog <service>
appstatus

[appcon] appstatus

SERVICE      STATUS      SUBSTATUS    ACTIVE SINCE
-----
mysql         active     running      Tue 2026-02-03 10:48:00 IST
redis-server  active     running      Tue 2026-02-03 10:47:53 IST
nginx        active     running      Tue 2026-02-03 10:47:55 IST
QuadraCoreEngine active     running      Tue 2026-02-03 10:47:53 IST
SupportCenter failed     failed       Tue 2026-02-03 10:48:02 IST
QuadraWebEngine active     running      Tue 2026-02-03 10:48:00 IST
QuadraWebGateway active     running      Tue 2026-02-03 10:47:53 IST
performanceController active     running      Tue 2026-02-03 10:47:57 IST
performanceMonitor active     running      Tue 2026-02-03 10:47:53 IST

[appcon] █
    
```

```

usage: SupportCenter [-h] [--date DATE] [--contact] [--support] [--both] [--generate] [--delete] [--mail] [--outdir OUTDIR]
Utility to generate CSV, send mail, and delete records

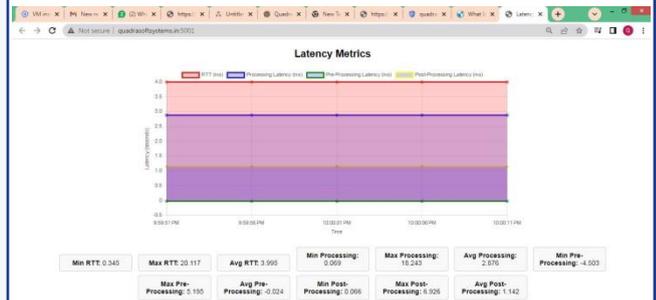
optional arguments:
  -h, --help            show this help message and exit
  --date DATE           Filter by date (YYYY-MM-DD)
  --contact
  --support
  --both
  --generate
  --delete
  --mail                Send CSV via email
  --outdir OUTDIR      Output directory
    
```



Key Features

Core Architecture

- Asynchronous & TCP-based high-performance backend
- FastAPI + WebSocket integration
- Optimized MySQL & Redis integration
- Multi-TCP connection handling with low memory & CPU usage
- Role-based API separation
- Distributed architecture support



Performance Monitoring (PerfMon)

- Built-in application & server performance monitoring
- Web-based dashboard
- RTT (Round Trip Time) tracking
- Server-level warnings & alerts

Microservices Ready

- Easy integration of new microservices
- AppCon (Application Controller) to:
 - Start / Stop / Restart services
 - Change configurations
 - View logs

Logging System & Code generator

- Integrated logging framework
- Log viewer inside system
- Log rotation support
- API testing automation tools
- Easy integration with: Web apps, Android apps, Windows apps
- TCP-based systems

QuadraWebGateway

- Converts Web requests → TCP requests
- High performance
- Centralized business logic across all frontend types

Support Center Integration

- Built-in backend support system
- Client issue tracking
- Contact management
- Automatic mail system



Benefits

- Faster time-to-market
- Reduced development cost
- High performance by design
- Scalable from small to enterprise
- Production-ready architecture
- Developers focus only on business logic
- Easy integration with any frontend
- Full visibility with monitoring & logs
- Built-in support & issue tracking

Who Is This For

- Small to mid-sized software companies
- Hardware-integrated solution providers
- Enterprise internal development teams
- Vendors building:
 - Employee management systems
 - E-commerce platforms
 - Transaction-heavy systems
 - TCP based enterprise applications

Why Choose Us

- Enterprise-grade architecture from day one
- No need to design backend framework from scratch
- Proven with live systems (e-commerce & employee management already running)
- Performance-focused design
- Long-term technical partnership model
- Non-Disclosure Agreement (NDA) and a Core Framework Confidentiality & Non-Sharing Agreement
- Code + support model available

Deployment Options

- **Bounded Mode (Monolithic)**
 - All business logic, APIs, and database handling on a single server/service
 - Simple architecture
 - Suitable for: Small businesses & Low to medium transactions
- **Unbounded Mode (Microservices)**
 - Business logic distributed across multiple services
 - Combined to form one scalable system
 - Suitable for: Mid to large transaction applications & Growing systems
- QuadraCore offers flexible deployment models, enabling implementation in **On-Premise environments as well as Cloud infrastructure** for scalable and secure operations.



Support & Maintenance

- We offer:
 - Code-as-a-Service model
 - Long-term support agreements (1 / 2 / 3 / 5 / 10 years)
 - Active development support
 - Vendor business logic integration into QuadraCore
 - Ongoing application maintenance
 - Ecosystem-level support from QuadraSoft

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

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Quadra Core