timeware®
HR, Time and Attendance Software

CLOUD SOFTWARE

timeware® Cloud security/infrastructure

At timeware®, we understand the importance of security, compliance, and seamless integration when it comes to HR, time and attendance solutions. That's why **timeware® Cloud** is built on a **Microsoft Azure** infrastructure, ensuring enterprise-grade reliability and performance.

Ensures robust data handling compliance aligned with GDPR and other relevant regulations.

1. **UK-Based Hosting:**
   - **Primary Server Location:** UK South (London).
   - **Backup Server Location:** UK West (Cardiff).
2. **Enhanced Security Features:**
   - **Single Sign-On (SSO):** Simplified access management for seamless user authentication.
   - **Multi-Factor Authentication (MFA):** Extra layers of security to protect user data and encrypted data transfers.
3. **Integration & Connectivity:**
   - **API Available:** Easily integrate with third-party software, including leading HR and payroll solutions.
4. **Data Handling Compliance:**
   - Compliance with frameworks including UK GDPR, Data Protection Act 2018, **ISO 27001** and Cyber Essentials Plus.
   - All data is encrypted both in transit and at rest, and access is strictly limited to authorised **timeware UK Ltd** personnel only.
   - Comprehensive auditing and logging features enable transparency and accountability. Regular security assessments and compliance checks are conducted to maintain high standards, ensuring peace of mind for clients.
   - Data Retention & Deletion Policies – Rules on how long data is stored, how it is archived, and how it is securely deleted when no longer needed.
   - Third-Party Data Handlers – **None!**
5. **Architecture Pattern:**
   - The application follows a layered architecture with clear separation of concerns
   - Uses a monolith gateway pattern with some microservices components
   - Has both frontend and backend components

CYBER ESSENTIALS PLUS

Citation ISO Certification
Integrated Management System
ISO 9001: 2015
ISO 27001: 2022
REGISTERED
Certificate No: 491342025

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6. **Key Components:**

   a. Core Business Modules:

   - HR Management (Reach.Application.HR)
   - Leave Management (Reach.Application.Leave)
   - Attendance Management (Reach.Application.Attendance)
   - Tenant Management (Reach.TenantManagement.*)
   - Reporting (Reach.Application.Reporting.*)
   - Dashboard Widgets (Reach.Application.Dashboard.Widgets)

   b. Infrastructure:

   - Message Bus (Reach.MessageBus.Contracts)
   - Event Processing (Reach.EventProcessor.Host, Reach.Application.EventProcessor)
   - Email Dispatch (Reach.Application.EmailDispatcher)
   - Persistence Layer (Reach.Persistence.*)

   c. Client/Frontend:

   - Monolith Client (Reach.Monolith.Client.*)
   - Frontend Resources (Reach.FrontendResources)

   d. Core Architecture Components:

   - Domain Layer (Reach.Domain)
   - Application Layer (Reach.Application.*)
   - Infrastructure Layer (Reach.Infrastructure.*)
   - Kernel (Core) Components (Reach.Kernel.*)

7. **Technical Architecture:**

   - Uses a multi-tenant architecture
   - Implements event-driven architecture (evidenced by EventProcessor and MessageBus)
   - Has separate resource management for frontend and backend
   - Includes reporting and dashboard capabilities
   - Uses contract-first approach (many .Contracts projects)

8. **Technology Stack:**

   - **.NET 10.0 -** Latest version of .NET
   - **Blazor Server -** For server-side web UI
   - **Azure Service Bus -** For message queuing and event-driven architecture
   - **Entity Framework Core -** For data access
   - **Serilog -** For structured logging
   - **Azure Application Insights -** For monitoring and telemetry

- **TailwindCSS -** For styling
- **MassTransit -** For message bus abstraction
- **SQL Server -** For data storage
- **Azure App Service -** For hosting

9. Cloud Infrastructure:

- Hosted on Azure (UK South region)
- Uses Azure App Service Plan (Standard S1 tier)
- Implements Azure Service Bus for messaging
- Uses Azure Application Insights for monitoring
- Multi-tenant architecture with sharding support

10. Security Features:

- HTTPS enforcement with HSTS
- Anti-forgery protection (CSRF)
- Authentication and authorisation support
- Rate limiting implementation
- Secure configuration management

11. Development Features:

- Development/Production environment configurations
- Health check endpoints
- Comprehensive logging
- Local storage support
- Hot reload support
- Development debugging tools

12. UI/UX Features:

- Responsive design
- Modern UI with TailwindCSS
- Custom fonts (Open Sans)
- Client-side routing
- Error handling pages
- Localisation support

13. Architecture Highlights:

- Clean architecture pattern
- Domain-driven design elements
- Event-driven architecture

- Microservices capabilities
- Tenant isolation
- Message-based communication
- Modular design

14. Key Business Modules:

- HR Management
- Leave Management
- Attendance Tracking
- Tenant Management
- Reporting System
- Dashboard Widgets
- Email Notifications

15. Performance Features:

- Rate limiting
- Caching capabilities
- Message queuing
- Database sharding
- Resource optimisation

16. Monitoring & Maintenance:

- Health checks
- Application insights integration
- Structured logging
- Error tracking
- Performance monitoring