

Technologies Involved

- **Backend Frameworks**
 - **SpringBoot (Java)**
 - Great for Complex data management requirements
 - Enterprise-level reliability
 - Excellent for high-performance systems
 - Built-in security features
 - **Gin (GO)**
 - Extremely high performance
 - Lower resource consumption
 - Excellent for microservices
 - Native concurrency support
- **Database**
 - **PostgreSQL**
 - Support for complex queries and relationships
 - Strong data consistency and reliability
 - Horizontal scalability through partitioning
 - Strong data encryption capabilities
- **Caching**
 - **Redis**
 - Handles high concurrent user requests
 - Reduces infrastructure costs
 - Ensures consistent, fast user experience
- **Message Broker**
 - **Apache Kafka**
 - Real-time synchronization between SIMS, HRMS, and LMS
 - Scalable inter-service communication
 - Low latency communication
 - Horizontal scalability
- **Infrastructure**
 - **Cloud - AWS/Google Cloud/Azure**
 - **Containerization - Docker**
 - **Orchestration - Kubernetes**
 - **Load Balancing - Nginx**

- Frontend
 - React.js/Next.js
 - State Management: Redux
 - UI Framework: Tailwind CSS
- App Development
 - Kotlin Multi-Platform
 - High Performance
 - Delivers product to multiple platforms from a single codebase
- Security
 - JWT & AES-256
- Version Control
 - GitHub
- CI/CD
 - GitHub CI