Case Study

Web & Mobile App Logistics Solution for Australia Building and Construction Business
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The Client

The Client is based in Australia and is a leader in building and construction materials with an extensive production and logistics network. The business is known for its extensive range of high-quality concrete produced and distributed across a broad network across Australia. The Client also supplies stone and rock aggregate and a wide range of standard and specialty sand products.

The Objective

The Client wanted to convert tracking and management of its logistics fleet to an electronic method to record the Chain of Responsibility (CoR) compliance information. Its current manual process was cumbersome and there were numerous gaps in the process. The manual process required each truck to carry a paper-based daily log sheet and a truck fault reporting book. By the nature of its expansive, diverse and changing driver fleet, the business could not always guarantee accurate completion of these book. Training on the documentation and records requirements was spotty and sometimes non-existent. These gaps in the process expose the Client and its drivers to legal and audit violations and ramifications and pose a safety risk when key tasks are missed or forgotten.

The Solution

The Elegant MicroWeb team worked closely with the Client team to define requirements and design, develop and implement solutions to ensure a seamless solution deployment of all features and functionality.

The Elegant MicroWeb team approach included:

- Involvement and coordination with stakeholders for detailed requirements and release planning
- Collaboration with key product team members to plan for testing
- Coordination with Client team to plan for internal and production releases
- Planning and project execution to ensure network, hardware, and technology compatibility and performance
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- Defining and implementing solutions to assure adequate support processes and accommodate upgrades and ongoing maintenance
- Developing and deploying appropriate user training

Solution included:

- **Driver Mobile Application**
  - Fit for duty acknowledgement
  - Truck Fail Reasons (TFRs)
  - Calculate real time shift duration and rest period
  - Add manual break time
  - Log book history
  - Add deliveries
  - Cartage adjustments request
  - Break alerts and breach alerts (based on Australia commercial vehicle operating standard (OSH regulation)
  - Geo-fencing and geo-tracking
  - Implementation of complex business rules for Australian states

- **Administration Panel**
  - Driver management
  - Truck management
  - Check list management
  - Driver working hours and break hours log history

- Deliveries management
- Cartage adjustments history
- Truck Fail Reasons (TFR) tracking
- SAP Integration and statistics on Inbound and outbound queues
- Cron setups to synch portal and existing ERP

**Support & Maintenance**

**Training**

**The Technology**

- **Web Administration Portal**
  - Server: PHP Laravel Framework
  - Database: MySQL
  - API: JSON
  - Integration: PI for SAP Integration

- **Native Mobile Application Development**
  - iOS
  - Android

- **Deployment**: AWS Cloud
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Elegant MicroWeb Role

Working closely with the Client team, the Elegant MicroWeb team provided support, knowledge and skills in the following areas:

- Requirements documentation and detail
- Roadmap planning
- Technical feasibility
- Graphics, layout and user experience design
- Architecture, Development, Maintenance and Support
- Continuous enhancement, upgrade and roll out
- Deployment of web portal on AWS Server
- Release native apps on Apple and Google stores
- Training and support to business users
- Performance and load testing

Conclusion

The Elegant MicroWeb team collaborated with the Client team to define detailed requirements and develop a plan to build the architecture in line with their SAP PI ERP solution to successfully deliver the solution in compliance with Client expectations. During the User Acceptance Testing phase, the application was tested by over fifty (50) users working from different parts of the country. The Elegant MicroWeb team was able to receive and address user requests to further enhance and improve this comprehensive solution. The solution was deployed throughout Australia to simplify the Client business and ensure compliance with regulations and legal requirements and provide an easy-to-use, one-stop product to monitor, manage, and maintain information, improve productivity and assure scalability for future upgrades.
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Contact Us

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