

Certification & Community Platform

Introduction:

The client wanted us to build a Certification & Community Platform for Agile in order to meet the growing demand for agile literacy, professional upskilling, and structured community engagement in industries undergoing digital transformation. As organizations are moving toward agile and lean methodologies, there is a lack of centralized, credible, and experiential learning platforms that not only certify professionals but also provided continuous learning and community-based support.

Traditional corporate training was often static, generic, or vendor-driven, lacking context, depth, and real-world application. This platform was designed to:

- Democratize agile education by making it globally accessible.
- Provide progressive certification tracks based on real-world roles.
- Support experiential learning with instructor-led training.
- Build a global professional network for practitioners.
- Offer advanced coaching and mentoring ecosystems.
- Enable enterprises to track and drive organizational agility at scale.

This platform helps both individuals and organizations adopt a transformational mindset, align to agile values, and cultivate sustainable change. It addresses a market gap where structured learning, real-world readiness, and community-based learning intersect. By combining modern cloud-native technologies with a flexible modular architecture, it enables continuous improvement and real-time feedback loops for both individuals and enterprises pursuing agile excellence.

Client Details:

Name: Confidential | **Industry:** e-learning, Software | **Location:** USA

Technologies:

Frontend

- HTML
- CSS
- Bootstrap
- JavaScript
- .NET Sitefinity

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Backend

- Ruby (v - 3.0.2)
- Rails (v - 6.1)
- MySQL
- Redis
- Delayed Job

Authentication & Authorization

- OAuth 2.0
- JWT (gem jwt)
- RBAC (gem pundit)

Infrastructure & DevOps

- AWS
- Azure

Other Integrations

- PayPal
- Stripe
- Adobe Signature
- RabbitMQ (gem bunny)
- Mailgun / HubSpot
- Elasticsearch

Application Features Implemented:

The original platform/legacy modules were architected using Ruby on Rails as the core web framework, which supported both backend logic and server-rendered front-end views. As the system matured and user expectations evolved, the team initiated a strategic front-end modernization effort, aiming to improve responsiveness, maintainability, and long-term scalability.

To support this transition, the organization partnered with Mindfire Solutions to lead the development of a comprehensive API layer. This initiative involved:

- Decoupling the monolithic front-end from the Rails application by exposing all essential business logic through RESTful API endpoints.

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- Ensuring functional parity by replicating the behavior of existing views and workflows.
- Redesigning and reimagining select features to align with modern user experience standards and product goals.
- Enabling modular, client-side rendering for new components using the selected front-end framework.

This approach allowed the team to retain the robustness and maturity of the Rails back-end while building a more dynamic and scalable front-end layer, setting the foundation for a more flexible, service-oriented architecture.

Project Description:

This platform functions as an end-to-end solution for agile training, certification, and community development. It is designed to support multiple user personas - learners, trainers, coaches, organizations, and administrators each with tailored experiences.

The project was built with three strategic goals:

- 1. Deliver Structured Learning Journeys**
The platform offers role-based learning paths, starting from foundational knowledge to expert-level capabilities. Every track includes training, experiential exercises, community interactions, and assessments.
- 2. Foster Peer-to-Peer and Mentor-Led Learning**
The product includes community features such as mentor-matching, virtual meetups, study groups, and events to encourage ongoing learning and networking.
- 3. Enable Enterprise Agile Transformation**
For organizations, the platform offers dashboards, reporting, team-level learning plans, and coaching assignments to support agile rollouts at scale.

Key Features:

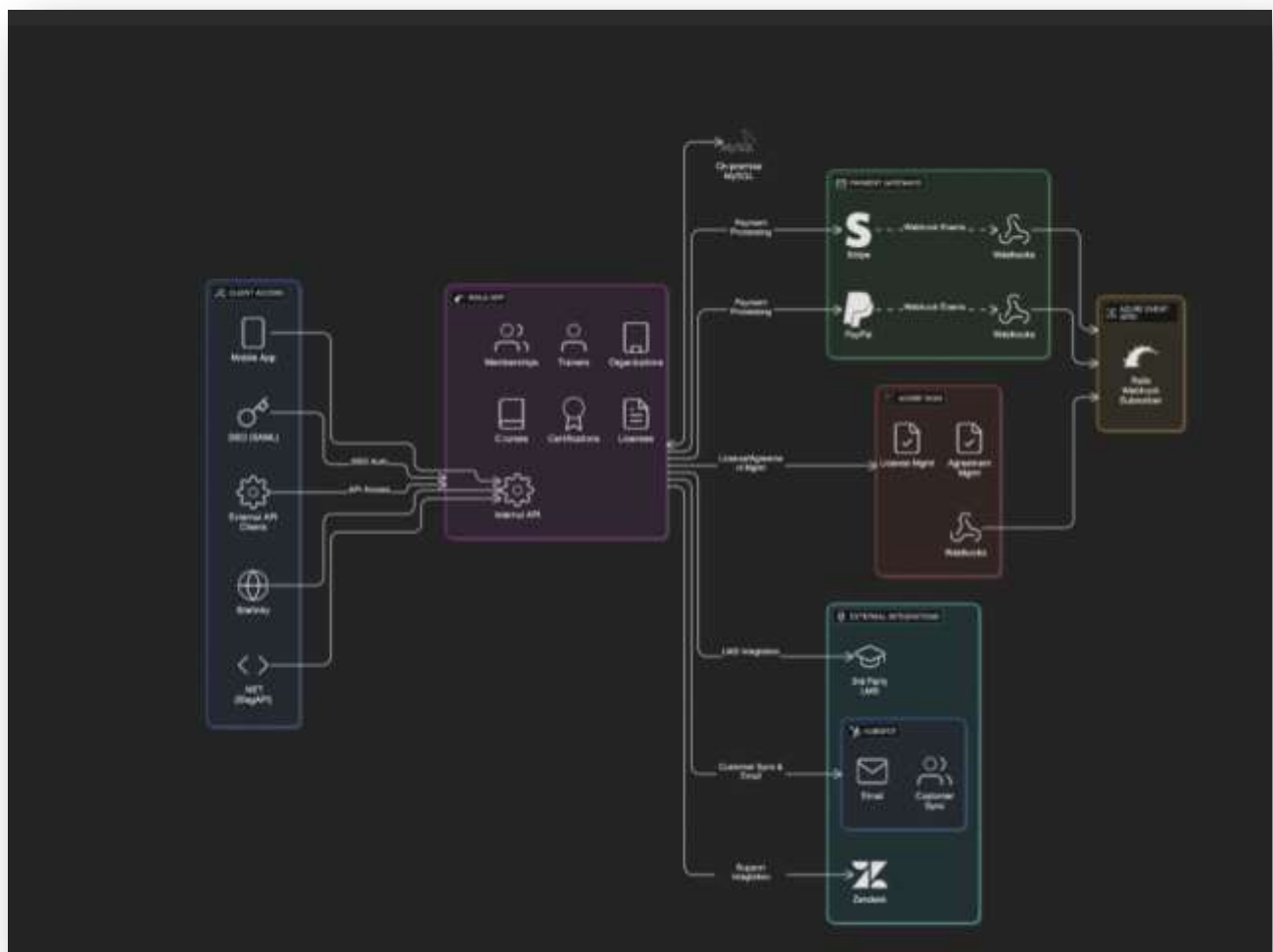
- **User Profiles & Learning Dashboard** – Tracks user progress, certifications, badges, upcoming events, and suggested content.
- **Certification Engine** – Manages role-based pathways, prerequisites, and renewals.
- **Event & Training Module** – Scheduling, ticketing, session management, waitlists, and post-event feedback.
- **Coaching & Mentoring Hub** – Matches certified coaches with individuals or companies for guided transformation.

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- **Enterprise Admin Portal** – Enables companies to manage teams, assign courses, and measure progress.
- **API-first Architecture** – To allow future expansion, mobile integration, and third-party LMS partnerships.

The platform was built incrementally using **Agile and Domain-Driven Design (DDD)** principles, with continuous feedback loops from early users including trainers, learners, and enterprise clients.

System Architecture:



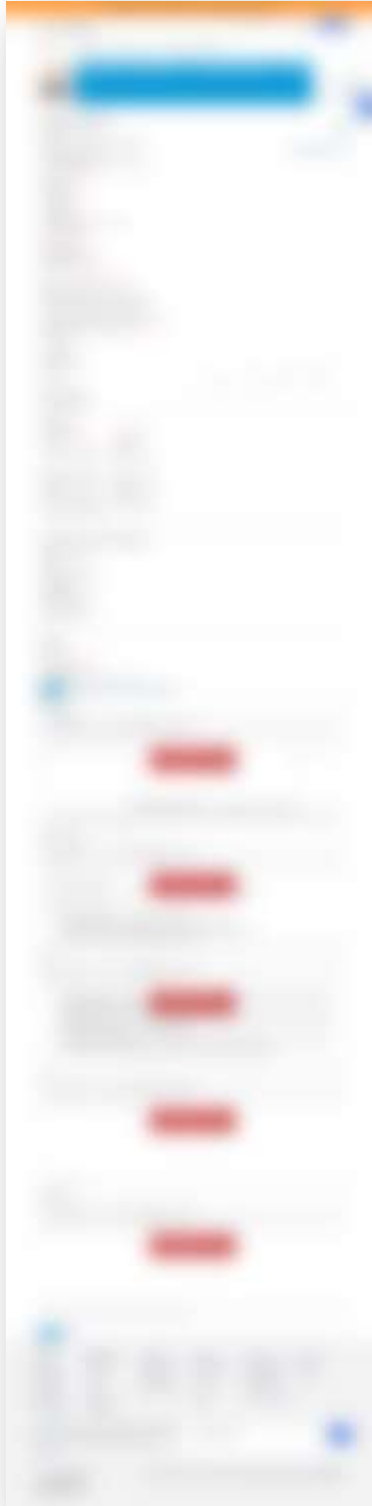
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Key Architectural Principles

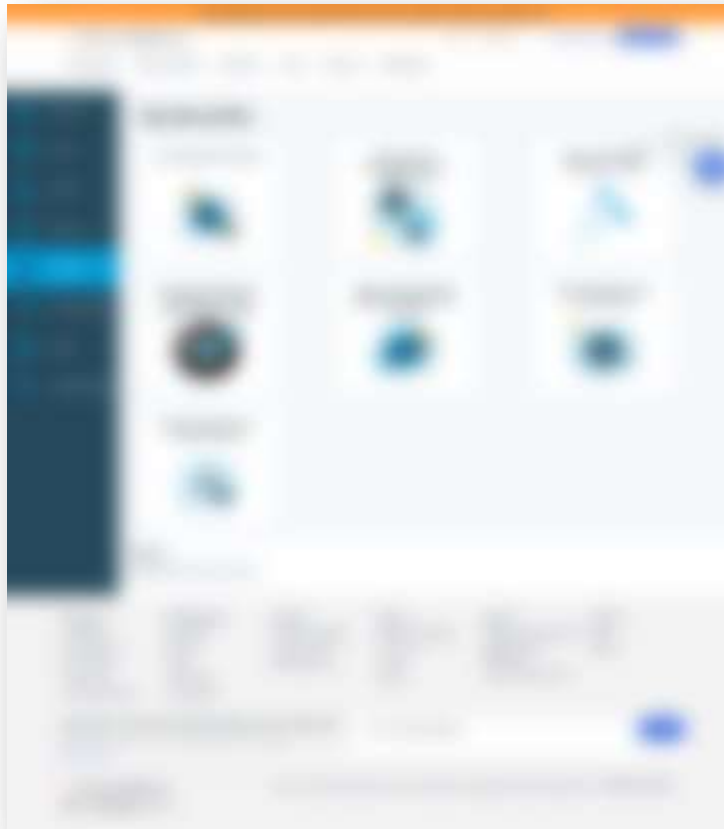
- **Microservices Oriented** – Services are decoupled for scalability and maintainability.
- **Event-Driven** – Internal communication (e.g., course completion → badge awarded) is handled via messaging queues.
- **Resilient and Secure** – Uses best practices for security, rate limiting, and graceful error handling.
- **Observability Built-In** – Full stack observability for performance tuning and debugging.

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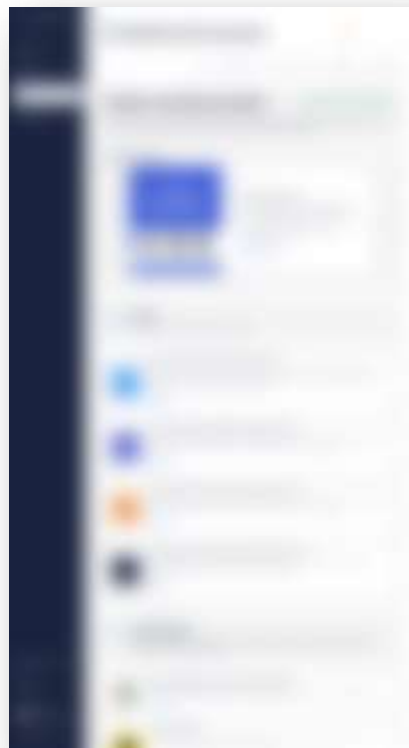
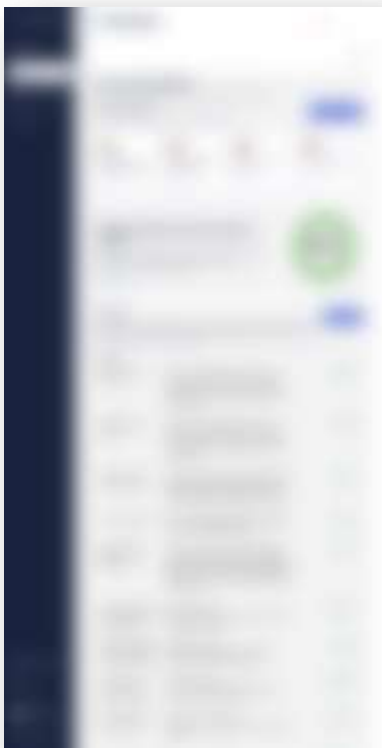
Screenshots:



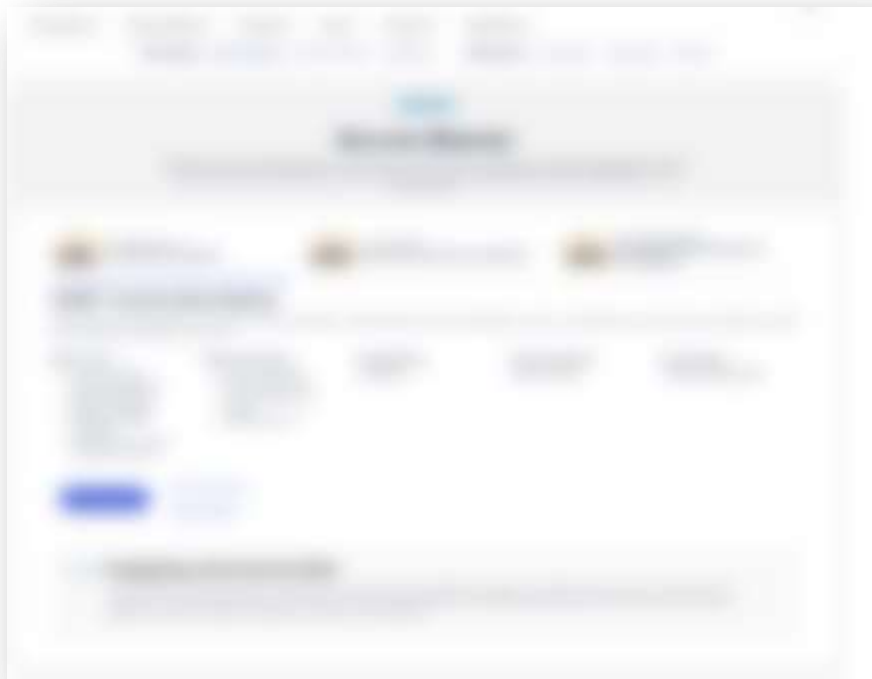
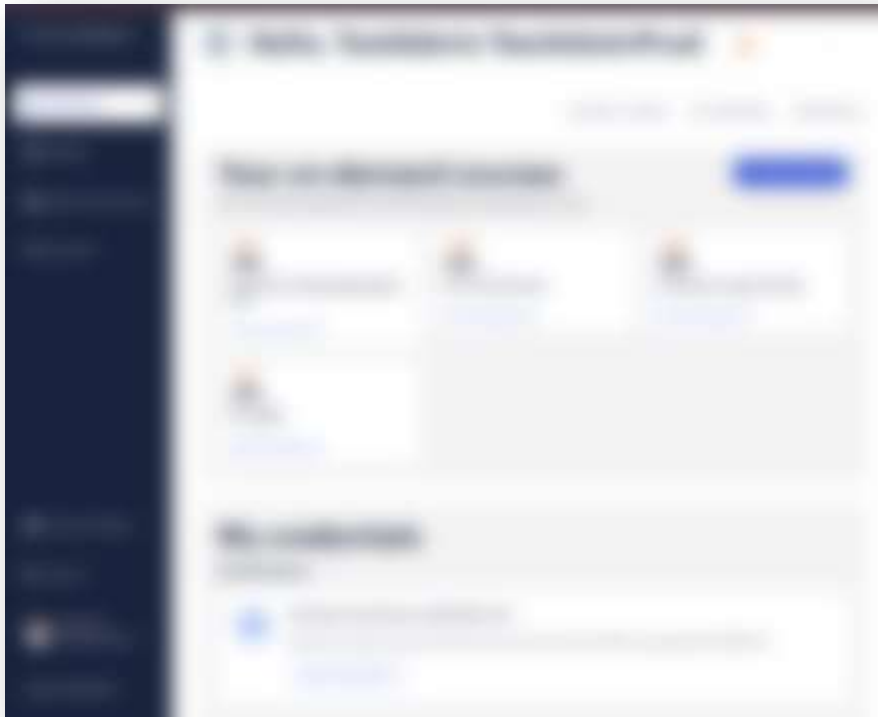
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