

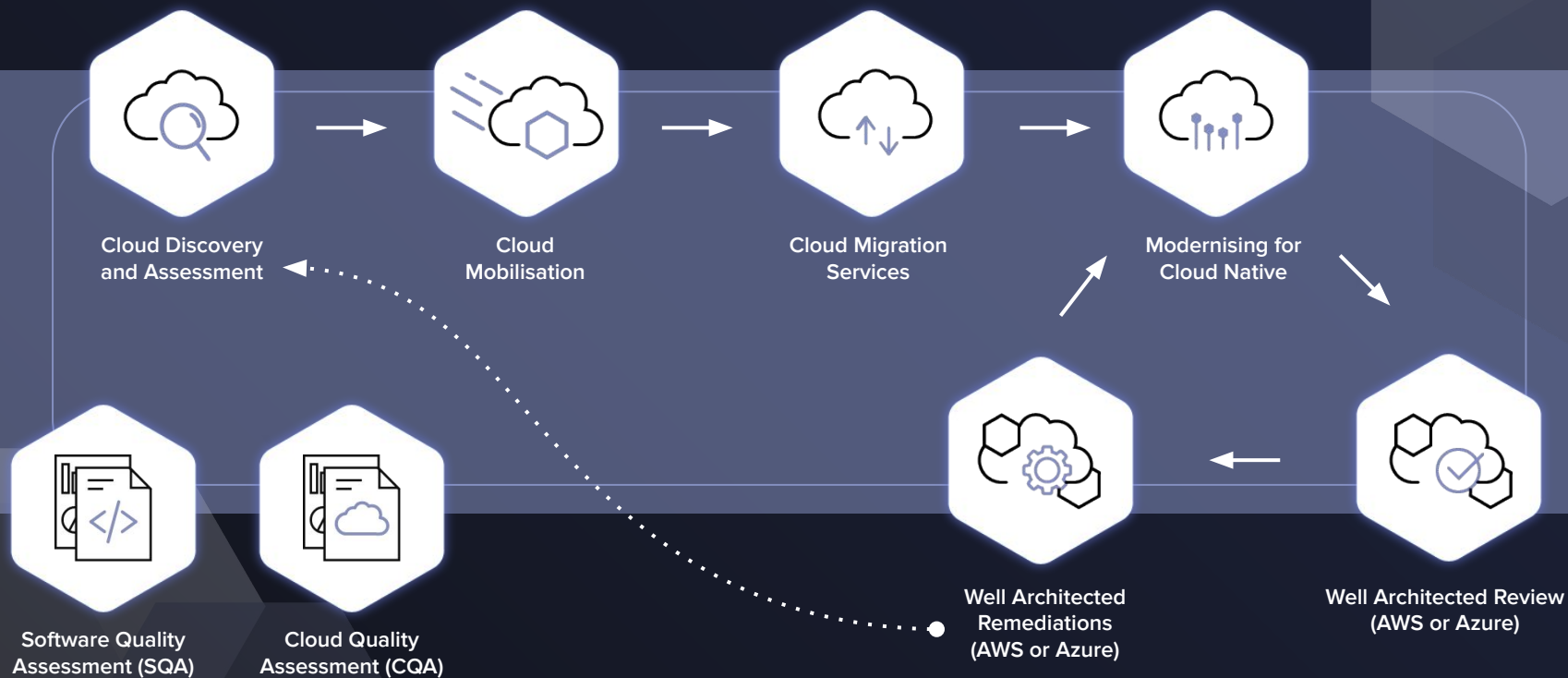
# Codurance Services

## G-Cloud 14

1. Service Offerings
2. About Codurance
3. Partners and Clients
4. Case Studies
5. Corporate Social Responsibility

# Service Offerings

## Service Offering Overview



Codurance's Cloud Assessment measures your current organisational maturity and provides an actionable roadmap taking full advantage of Cloud scale, performance, resilience, and security. We help you build a business case for cloud adoption and provide advice to achieve business goals efficiently and cost-effectively. Usually delivered over one or two weeks.

### Features

- Review your organisations maturity and readiness for cloud adoption
- Create a roadmap and business case for your cloud implementation
- Create a robust and sustainable cloud strategy
- Define your cloud centre of excellence
- Assess your skills level and needs for successful cloud delivery
- Identify areas for improvement for best chance of success
- Understand total cost of ownership
- Understand how business objectives can affect cloud readiness
- Leverage Codurance's expertise to provide industry insights on current trends
- Define a learning plan adjusted to different roles

### Benefits

- Provides a practical plan for cloud adoption
- Potential funding available from cloud providers to support customer migrations
- Improves stakeholder buy-in
- Demystifies cloud concepts to ensure understanding within the organisation
- Increases confidence in developing a migration strategy
- Provides understanding of organisations IT maturity to identify roadblocks early
- Energises development teams by promoting cloud concepts at inception
- Increases cost awareness within organisation to deliver an efficient strategy
- Identifies opportunities to increase operational efficiency
- Measures the gap between the adopted technologies and the industry standards

Codurance adheres to well known best practice frameworks in regards to testing and deploying solutions. Before commencing your migration to the cloud, Codurance will support you with our recommended Proof of Concept service to mobilise your team, gain clarity and support the organisation to prepare for migration success.

### Features

- Create a migration plan
- Build an operating model
- Create a security and compliance model
- Migrate a contained application to prove the value of the cloud
- Create a skills and training plan
- Create a business plan for the scoped workload
- Automate infrastructure and application management
- Improve application performance and scale it indefinitely
- Design a disaster recovery plan

### Benefits

- Validates the business case for cloud migration
- Creates room to amend the approach before committing to full migration
- Provides visibility on areas for improvement or investment for success
- Reduces financial and project risk
- Improves communication with a solid plan to move forwards
- Provides a reference model for further cloud implementations
- Potential funding available from cloud providers to support customer migrations
- Creates a controlled process to migrate a subset of data securely
- Allows experimentation of new services without an upfront investment (pay-as-you-go)
- De-risking any potential unknowns of migration approach

Migrate your application workloads to the cloud to drive operational and performance efficiencies, improve security and reduce cost. Codurance aim to improve your deployment posture through implementing DevOps and CI/CD processes and tools whilst coaching your teams to ensure you're able to build a sustainable capability in-house.

### Features

- Migrate one or all of your workloads to the cloud
- Build a platform with resilience and security built in
- Modernise and migrate for maximum value
- Potential funding available from major cloud vendors
- Migrate from on-premises/cloud or cloud/cloud
- Migrate large data sets using the tools that have the best fit for your data profile
- Secure, automate and monitor migration process
- Design highly-available applications
- Access potential migration funding via our AWS Advanced Services Partnership
- Access potential migration funding via our Microsoft Gold Cloud Partnership

### Benefits

- Reduces deployment times
- Improves security, reliability and cost efficiency
- Provides elasticity on future cloud services spend
- Supports sustainable scalability and growth
- Improves in house knowledge and skills to retain talent
- Provides instant reporting on the data migration progress
- Transform your infrastructure by adopting serverless services
- Deploy your application in the region that best fits your needs
- Facilitates innovation, through the adoption of cloud services
- Increase the ease of moving into new geographical markets

Codurance provides expertise in modernising your strategic applications, platforms and practices to drive value from your cloud investment. We can help you design, test and build cloud native applications and platforms using modern best practices like DevOps and XP to ensure you comply with regulations whilst modernising for scale.

### Features

- Modernise applications using best practices and tools
- Ensures your strategic applications evolve inline with business needs
- Ensure your applications are well-designed, tested and secure
- Create an environment where developers, operations and security teams work seamlessly
- Modernise ways of working
- Build-in observability, monitoring and reporting
- Codurance teams are highly skilled and hold industry certifications
- Re-platform existing infrastructure and adopt serverless services
- Key non-functional requirements such as security supported from the outset
- Automate backup and restore process

### Benefits

- Technology becomes an enabler for business growth
- Potential funding available from major cloud vendors
- Improves team skills and morale
- Increases visibility of vulnerabilities, costs and opportunities through better reporting
- Decreases maintenance costs
- Creates automation for patching and security vulnerabilities checks
- Standardises your deployment process for different platforms
- Increases confidence for future changes
- Provides greater visibility into the performance of running applications
- Reduces effort required for infrastructure maintenance



Codurance delivers the AWS Well-Architected Review against the 6 Framework pillars. We are an Advanced Tier Services partner holding the Well-Architected Competency, providing assurance of our certified expertise. In addition we support remediation of high risk issues to improve quality and security to maintain optimal best practices as you scale.

### Features

- AWS Advanced Tier Services partner
- Certified to deliver the official AWS Well-Architected Review
- AWS funding may be available for remediations when criteria is met
- Identify vulnerabilities in your cloud workloads
- Work with our experts to create an impact versus effort plan for remediation
- Increase visibility of key risks and create a mitigation plan
- Develop new skills to build a centre of excellence for your cloud platform team
- Fix high risk issues with Codurance's support
- Create a remediation plan based on assessment findings
- Understand how to stay optimised as you scale

### Benefits

- Reduce risk in architecture landscape
- Reduce cost and improve cost visibility and planning
- Improve team skills and morale
- Improve security
- Improve system performance and reliability
- Increase your pace of innovation
- Increase velocity
- Improve the sustainability credentials of your infrastructure
- Prioritised findings remediation are based on an effort versus impact matrix
- Improves overall understanding of architecture state

Codurance delivers the Azure Well-Architected Review against the 6 framework pillars. As a Gold Microsoft Partner we provide the highest level of certified expertise during your Review and support remediation of high risk issues to improve quality and security to maintain optimal best practices as you scale.

### Features

- Delivered by Microsoft Gold Cloud Platform partner
- Certified experts provide the highest levels of advice and recommendations
- Identify vulnerabilities in your cloud workloads
- Work with our experts to create an impact versus effort plan for remediation
- Increase visibility of key risks and create a mitigation plan
- Develop new skills to build a centre of excellence for your cloud platform team
- Fix high risk issues with Codurance's support
- Create a remediation plan based on assessment findings

### Benefits

- Reduce risk in architecture landscape
- Reduce cost and improve cost visibility and planning
- Improve team skills and morale
- Improve security
- Improve system performance and reliability
- Increase your pace of innovation
- Increase velocity
- Improve the sustainability credentials of your infrastructure
- Prioritised findings remediation are based on an effort versus impact matrix
- Improves overall understanding of architecture state

Allowing you to make confident decisions, evaluate progress, and optimise your systems and organisation with insights backed by empirical data. The Software Quality Assessment (SQA) is a solution for companies striving to measure and improve technical excellence. The SQA provides a holistic, unbiased and data-driven assessment, covering not only the quality of the software itself but also the quality of the development process, knowledge distribution and key contributors.

Features	Benefits
<b>Knowledge distribution</b> module focuses on evaluating and managing the dissemination and accessibility of technical knowledge within a team or organisation.	<ul style="list-style-type: none"><li>• Making sure that critical information and skills are not isolated, minimising knowledge loss and enabling smooth onboarding and efficient knowledge transfer amongst team members.</li><li>• Making sure that critical information and skills are not isolated, minimising knowledge loss and enabling smooth onboarding and efficient knowledge transfer amongst team members.</li></ul>
<b>Code Quality</b> module assesses the readability, understandability, and general robustness of the codebase by probing the complexity and evolution ease of core features.	Focussed on keeping the system maintainable and comprehensible, ensuring long-term viability and minimising technical debt.
<b>Code extensibility</b> module examines how effectively a codebase can accommodate the introduction of new features and parallel development across multiple teams.	By emphasising coherent expression of business rules and ensuring that changes can be implemented and tested independently, the focus is on maintaining a flexible and scalable system.
<b>Test Automation</b> is targeted at minimising manual testing efforts and increasing release reliability by establishing a comprehensive, fast, and reliable automated testing suite.	This module highlights the importance of maintaining a low-risk testing environment that is both exhaustive and efficient.
<b>Development Process Quality</b> scrutinises the effectiveness, safety, and traceability of changes from development to production.	The process aims to streamline and safeguard the development lifecycle.
<b>Code Security</b> takes a critical look at potential threats and weaknesses in both proprietary and third-party code	Driving robust security postures and minimising risk through proactive identification and mitigation of vulnerabilities.

The CQA provides a holistic, unbiased and data-driven assessment, evaluating the performance, reliability, security, and compliance of the utilisation of cloud services considering best practices and patterns. This process is crucial in order to ensure that cloud environment meets business needs, regulatory requirements, and industry best practices. This will deliver a detailed report that covers, in detail, various aspects of your cloud projects, from architecture design to production, considering visibility and maintainability. Skills required to support this process are also considered as part of this assessment. After this activity, we will have a concrete snapshot of the health of how cloud environments are designed and maintained.

Features	Benefits
<b>Data driven insights</b>	Derived from metrics and comprehensive interviews allowing you to base your decisions on hard numbers and actual feedback
<b>Holistic overview</b>	Understanding your organisation's structure, delivery process, security architecture and more
<b>Actionable recommendations</b>	Get specific, actionable advice to improve and streamline your tech environment.
<b>Business visibility of risks</b>	Identify strengths and areas for improvement to support your business strategy.
<b>Protect your investments</b>	Understand technical and organisational health pre-acquisition.
<b>Track progress</b>	Regularly assessing improvements enables you to monitor ROI

# About Codurance

**Codurance is a global software consultancy that helps businesses build a better, sustainable technical capability that supports growth and innovation.**

The software and platforms we create are well-crafted, reliable, secure and easy to modify which means our clients increase efficiency, and reduce cost and delivery times.



## Our approach

**We believe software should continuously add value to the business with inherent quality that allows it to evolve with changing needs.**

Our holistic approach aligns business and technical strategies – covering technical practices, people and processes, skills and implementation.

Our multifunctional teams work collaboratively using methodologies based on:



Software Craftsmanship and Agile mindset



Extreme Programming practices



Lean and DevOps principles



66

Pragmatism is a widely discussed concept but rarely taken into account when you are looking for software development partners.

Codurance team embodies just the right amount of practicality with the overall vision and knowledge to bring positive change to any organization.

**Sapankumar Parikh**

Vice President of Software Development, eClinicalWorks

## Our heritage makes us different

In 2010 our co-founders started the **London Software Craftsmanship Community**, the first and largest Software Craftsmanship community in Europe, and led the way to inspire and help with the creation of many other communities around the world. What started as a shared sense of purpose has grown beyond its original core and has become our guiding ethos at Codurance.

The craftsmanship  
ethos shaped who we  
are as a company.

Ingrained in our mindset is the desire to raise the bar in the software industry through professionalism and technical excellence. These values run through everything we do.

It's not just about software, but great UX, great strategy, great organisational alignment, great relationships which we believe leads to our ultimate goal – customer satisfaction.





# Partners and Clients

# Codurance is a trusted partner of the leading cloud providers.

Our in-depth knowledge of their platforms and services means we can advise you on how best to deploy cloud solutions for your business.

66 They really helped us identifying our needs and what services to use when we wanted to upgrade our pipeline architecture. From cost analysis to identifying our weak spots that could be enhanced with quick fixes. Apart from the pipelines we also had an analysis of the whole AWS architecture that help us identify some problems and most important, they gave us the right solutions.

**Ivan Montes**

Very Chic



Digital & App Innovation  
Azure



- AWS Lambda Delivery
- Well-Architected Partner Program

## AWS Advanced Consulting Partner

Codurance is an AWS Advanced Consulting Partner with extensive experience developing cloud native solutions.

- Well-Architected Partner
- Serverless Service Delivery
- Migration Acceleration Program
- DevOps

[For information on a Well-Architected Review](#)



- AWS Lambda Delivery
- Well-Architected Partner Program

66

Codurance has given us the opportunity to work with staff and experts who understand and have hands-on experience in implementing solutions with AWS.

From the initial and ongoing design of the architecture, through the implementation and validation process, Codurance has been able to deliver consistent working solutions using new and well-established AWS services and products.

**Nick Myers**

Chief Technology Officer at Digital Theatre

## Microsoft Gold Partner

Codurance is a Microsoft Gold Partner with multiple competencies demonstrating expertise in cloud-based enterprise solutions and outstanding performance with the Microsoft Azure Cloud platform.

- Gold Application Integration
- Gold Cloud Platform
- Gold Application Development
- Silver Data Analytics

[For information on our Microsoft partnership](#)



Digital & App Innovation  
Azure

66 In terms of expertise, Codurance was unquestionably great in the technical domain. What was extra impressive was how good their Craftspeople were at the social side of delivering technical solutions: empathy, influence, and communication. The ability to deliver whilst navigating the organisation to understand differing views resulted in solutions that were not obvious and orders of magnitude simpler than a naive implementation of the requirements.

**Aaron Matthews**

Director of Software Development, Aspect Capital

## Our Clients

We are proud to say that we help our clients achieve amazing results.

66

Codurance was a natural choice, being closely aligned with the culture we are trying to establish as well as being able to meet the significant demand for engineers in order to deliver. I have no hesitation in recommending Codurance for any organisation looking to improve their culture of engineering excellence or in the delivery of high quality engineered solutions.

**Ian Kershaw**

Software Engineering Director at Cazoo



eClinicalWorks



FLEXTRADE



Trinity Mirror plc



**codurance**

## Security, regulatory and data protection compliance

We have experience working within heavily regulated environments from around the world. Context, due diligence and pragmatism are key to ensuring our solutions comply with the security, regulatory and data protection requirements needed.

### eClinicalWorks

66 Pragmatism is a widely discussed concept but rarely taken into account when you are looking for software development partners. Codurance team embodies just the right amount of practicality with the overall vision and knowledge to bring positive change to any organization.

#### Sapankumar Parikh

Vice President of Software Development, eClinicalWorks

US based electronic health record company, eClinicalWorks selected Codurance as their strategic modernisation partner.

For over three years, we have been incrementally modernising their software and systems – all while nearly a million doctors, nurse practitioners and medical professionals continue to use it daily to provide quality care worldwide.



66 We needed consulting services specialised in modernisation, both for infrastructure and applications... someone with experience working with companies where obsolescence is more common.

Codurance's way of working and their deep knowledge about the business has allowed Codurance to help us with even the smallest details.

#### Rubén Recio Antolin

Head of System Architecture & Innovation at Aigües de Barcelona

Spanish water utility company, Aigües de Barcelona is responsible for managing the complete water cycle for the city of Barcelona and the 23 municipalities in its metropolitan area.

We analysed its current infrastructure in order to provide recommendations and proposals for modernising its system with native cloud tools, starting from a solid base of improvements in its on-premise system.



66 We work with Codurance because of their strong reputation in Software Craftmanship, an approach that is perfectly suited to our context. Their ability to understand and adapt to our needs is a significant element of our ongoing collaboration.

#### Sergio Champel

Engineering Director – DSDIC SW Ecosystems at Roche

Because of our experience in highly regulated environments, Swiss multinational healthcare company Roche selected Codurance as their strategic innovation partner.

We worked closely with the Roche team to build the next generation of their digital platforms. We also trained teams to improve their inhouse ability to continuously deliver quality systems.

## We want the software and platform solutions we build with you to successfully deliver for your organisation.

Transparency and close collaboration with our clients helps ensure that the technology, architecture, and practices used are aligned with the wider technical strategy and the rest of your organisation.

To support this we encourage regular touch points with clients

- Continued alignment sessions
- Shared progress updates
- Proactively flag potential issues or blockers
- Regular stakeholder demonstrations of working solutions

66

We believe that business context is vital to a successful outcome, which is why we build deep relationships with our clients, and invest ourselves in your success.

**Sandro Mancuso**

Co-Founder and Managing Director

# Case Studies

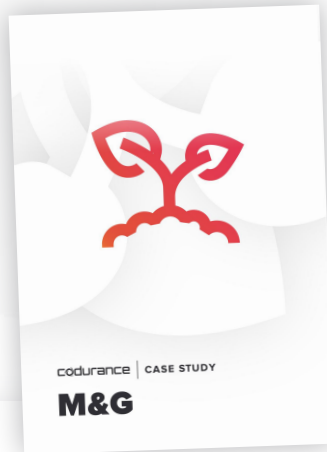




### [Roche Case Study](#)



12+ month ongoing engagement



### [M&G Case Study](#)



12+ month engagement



### [eClinicalWorks Case Study](#)



24+ month ongoing engagement



### [RENTALL Case Study](#)



6 week engagement

## Case Study Summary: Roche



### Challenge

As one of the world's largest biotech company, Roche operates in a highly regulated environment and creating frequent, and safe changes while remaining fully compliant is a must. Continuous Delivery was a major challenge for Roche, as well as providing auditability and compliance throughout the whole CI/CD pipeline.

### Solution

- Continuous Integration pipelines for each of the modules of the application, including automated unit and integration tests as well as containerization of each of the modules
- Auditing of all the pipeline stages and archiving of audit logs in an immutable hybrid storage solution
- Contract testing of the assembled application in an automated fashion by invoking a dedicated suite of tests written by QA engineers. This step would produce reports, screenshots and videos to make the compliance checking process as smooth as possible
- The option of deploying the application using advanced strategies like Blue/Green and Canary deployments for all supported environments

### Result

- Codurance created a reference implementation for a Continuous Delivery pipeline which would service as a template for all new projects and legacy applications
- The solution was built on top of state-of-the-art technology and leveraged the cloud wherever possible
- The core requirements of the project were satisfied and made the solution portable to on-premises environments at any given time with relative ease
- Codurance worked closely with Roche's team in order to make the first transition as smooth as possible

🔗 We work with Codurance because of their strong reputation in Software Craftsmanship, an approach that is perfectly suited to our context, and because their training courses are proven and highly valued by our developers. Their ability to understand and adapt to our needs is a significant element of our ongoing collaboration.

---

**Sergio Champel**

Engineering Director – DCDIC SW Ecosystems at Roche

## Case Study Summary: M&G



### Business Context

As part of a wider transformation programme, M&G made a corporate decision to migrate its outdated inhouse trading platform to BlackRock Aladdin, an outsourced solution which would offer their traders an end-to-end system to see their whole portfolio, understand risk exposure, and act with precision.

This migration was the highest priority both for the business and technology teams to ensure ongoing client support and security in a volatile and uncertain market environment.

### Challenge

The M&G team knew they wanted to develop a scalable, distributed and highly-available integrated system that would be responsible for propagating trades and investments in a standardised format and allow flexible querying of data to enhance business intelligence.

The new system would be deployed in the Serverless Cloud on Microsoft Azure and M&G realised early on that they would require a partner with the expertise both in Azure and also designing and building large-scale trading platforms to help support their existing architecture and software development teams.

### Solution

- Codurance advised on the technical architecture of the platform then embedded Software Craftspeople to work alongside M&G to form a core delivery team
- Built a scalable, distributed and highly available integration system that is responsible for propagating, querying and reporting the investment trades in a standardised format
- The platform was built on the cloud, the first of its kind built for M&G

### Result

- Within 12 months Codurance helped define and create one of the most critical systems within the M&G estate
- Successfully implemented Azure Serverless and Apigee
- Not only did Codurance help to exponentially improve the company's Investment Decision & Transaction process but we also instilled a culture of learning and improvement within the M&G teams, allowing them to continue driving value for their traders and clients

## Case Study Summary: eClinicalWorks



### Business Context

eClinicalWorks (eCW) is one of the largest cloud-based health and safety software in the US.

eCW's core product, the Electronic Medical Records (EMR) was developed 20-years ago and manages patients' full clinical documentation history and interoperates with other healthcare systems so patients' medical data can be transferred seamlessly as they move between hospitals and practices.

### Challenge

Every practice that runs eCW software has a dedicated instance of the EMR, most of which—around 11,000 practices—are hosted on eCW's own infrastructure.

eClinicalWorks experienced a period of rapid expansion, and during the course of this expansion, they have incurred a lot of technical debt. Given the size and complexity of the software and the number of people working on it, inevitably a few problems emerged.

Our challenge was to create a software modernisation strategy that could gradually address all these emergent issues while always maintaining the system in a working state and allowing business to evolve.

### Solution

- Workshops with stakeholders to determine the functional areas of the system which would define the boundaries of the modules as we restructure the EMR
- Create a reference architecture or implementation by taking a small, easily understood part of the system, and extract its functionality into a separate module with improvements
- Follow an incremental approach to the modernisation process without disrupting the business.

### Result

- Through our collaboration with eClinicalWorks, we have been able to help them by providing a working reference implementation of a module that provides the HPI functionality in their EMR product. This has been used to upskill and train the development teams how to establish a single source of truth for each of the functional areas of the EMR, thus de-duplicating functionality and preventing its duplication in the future.

## Case Study Summary: RENTALL



### Business Context

RENTALL is a global SaaS provider of auto rental solutions to businesses globally. The company is owned by Valsoft that acquires, owns, operates under Aspire Software and manages a portfolio of technology companies in various industries. RENTALL was formed from the merger of three rental businesses acquired by Aspire, with the aspiration to create a market-leading auto rental business with global reach.

### Challenge

When the three separate auto rental businesses were merged and rebranded as RENTALL, the management team were keen to ensure a seamless and smooth experience for its customers.

The senior management team required an honest, quantitative and impartial view of the current state of the integrated RENTALL system in order to decide on the strategic technology direction of the platform and how to best support ongoing improvements and features.

### Solution

RENTALL approached Codurance to deliver the SQA. Data and insights were gathered across 6 core modules to assess the code quality, knowledge distribution, test automation, code extensibility, development process quality and code security. The findings were then provided to RENTALL in an easy-to-digest report that highlighted the good areas and the areas to address as a priority with detailed recommendations supported by empirical data.

### Result

RENTALL were able to quickly identify where the key issues were in their business from people, skills and process to technology, security and testing, and understand what areas should be addressed first to deliver the optimal business outcomes. The business was able to make strategic decisions with complete confidence allowing them to create a remediation plan for the platform's improvements where needed. The RENTALL platform now continues to be evolved in-line with customer expectations and is helping them to reach their strategic goals for the platform faster, backed by empirical data.

# Corporate Social Responsibility

## Proud signatory of the Tech Talent Charter

We are committed to driving greater inclusion, diversity and equity in technology and have a number of ongoing initiatives:

- Reviewing recruitment and company policies and practices to appeal to a greater number of people from diverse backgrounds
- Creating learning opportunities for our employees to gain skills such as tackling unconscious bias, using inclusive language, improving collaboration etc.
- Collecting feedback and data from our employees to benchmark against national survey data and better support people's individual needs
- Supporting communities, events and initiatives focused on underrepresented people in UK tech by providing mentors, sponsorship, speakers and marketing support



66

Inclusion & Diversity is, and will always be, a continuous initiative for us. We're excited to be working on it at Codurance, and proud of the inclusive culture that already exists for us to build on.

**Mash Badar**

Co-Founder and Managing Director

Supporting the health and wellbeing of our people is an important part of the culture at Codurance. We support this through a number of initiatives.

- Workshops and webinars throughout the year focused topics such as managing stress, mindfulness and looking after wellbeing while WFH
- Mental Health First Aiders – trained peers within the organisation for staff to speak to confidentially if they would like a listening ear or any guidance towards professional avenues of support for their mental health
- Dedicated Slack channel for people to share wellbeing tips, articles, experiences
- OfficeVibe survey to monitor wellness and happiness, broken down into teams so we can understand at the team level

66

We use our fortnightly surveys to monitor wellness and happiness levels across Codurance. This information is broken down by teams so we can identify and reach out to any teams that may benefit from additional support.

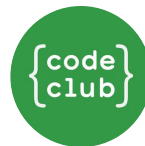
**Sandro Mancuso**

Co-Founder and Managing Director



Codurance was founded through the craftsmanship community, so staying connected and supporting the tech community remains a vital part of our company culture. Here are a few of the ways we're giving back.

- Hosting monthly and fortnightly events for the London Software Craftsmanship Community and Software Crafters North
- Partnering with and supporting underrepresented groups like Coding Black Females and Digital Her
- Donating to charities that support groups learning to code such as Code Club
- Many of our people also volunteer by speaking at events such as Skillsmatter, codebar Festival, National Software Testing Conference, Manchester Tech Festival



{ skills matter }



# Thank you

If you have any questions,  
please get in touch.



**Codurance**  
Craft at Heart

✉ [info@codurance.com](mailto:info@codurance.com)

**in** [linkedin.com/company/codurance](https://www.linkedin.com/company/codurance)