SHARP TEK

EMBRACE THE CLOUD

Overview

- Csharptek is an end-to-end IT and cloud solutions-driven company based out of Ranchi, Jharkhand, India, and helps organizations/individuals solve their technological problems.

- Csharptek is an ISO 9001:2008 certified web/mobile app development company. It has ten years of rich experience in the data cloud solutions field.

- As an outsourced software service provider, we have expanded our footprint not just pan-India but in the international arena, too.

- Csharptek is a full-fledged software development and consultancy company in India, with an affinity for leveraging cloud-based platforms.

- We carefully analyze the requirements of the business and develop systems to help optimize the business, digitally.

- From modern and responsive web-design to strategically developed mobile and web applications are done here.

- We specialize in Microsoft & Cloud based Web Applications, Open-Source Applications, Mobile Applications, Native Android/iOS Apps.

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OUR VISION

Our aim is to solve sector-specific problems across devices, apps, and infrastructure using proven expertise in AI, MI, IoT and cloud solutions-driven.
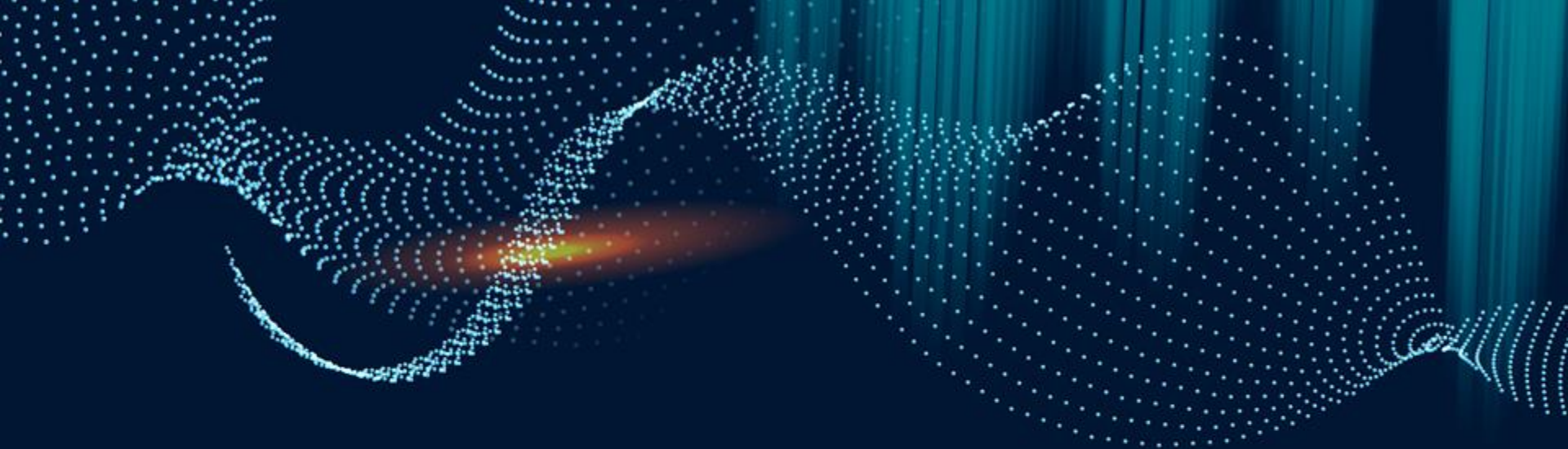
OUR MISSION

To build the technology or cloud operation which is most convenient, secure, cost-effective for the clients.

OBJECTIVES

To provide our client with best services and consultancy in given timeline. To dominate the world of digital transformation.

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01 | Why are companies moving to the cloud?

Enterprises are accelerating digital transformation

50%
of organizations report that their workloads and data are in the public cloud, and they expect that number to increase in the coming year

66%
of surveyed organizations reported that their actual cloud usage in the past year has been higher than planned

The next era of business is here
IT leaders are taking key steps to stay ahead of the curve.

Prioritize investment and people
by fueling new growth initiatives to stay ahead of the curve

Remodel business operations
by increasing supply chain efficiency and digital resilience for increased productivity

Build the right skills and culture
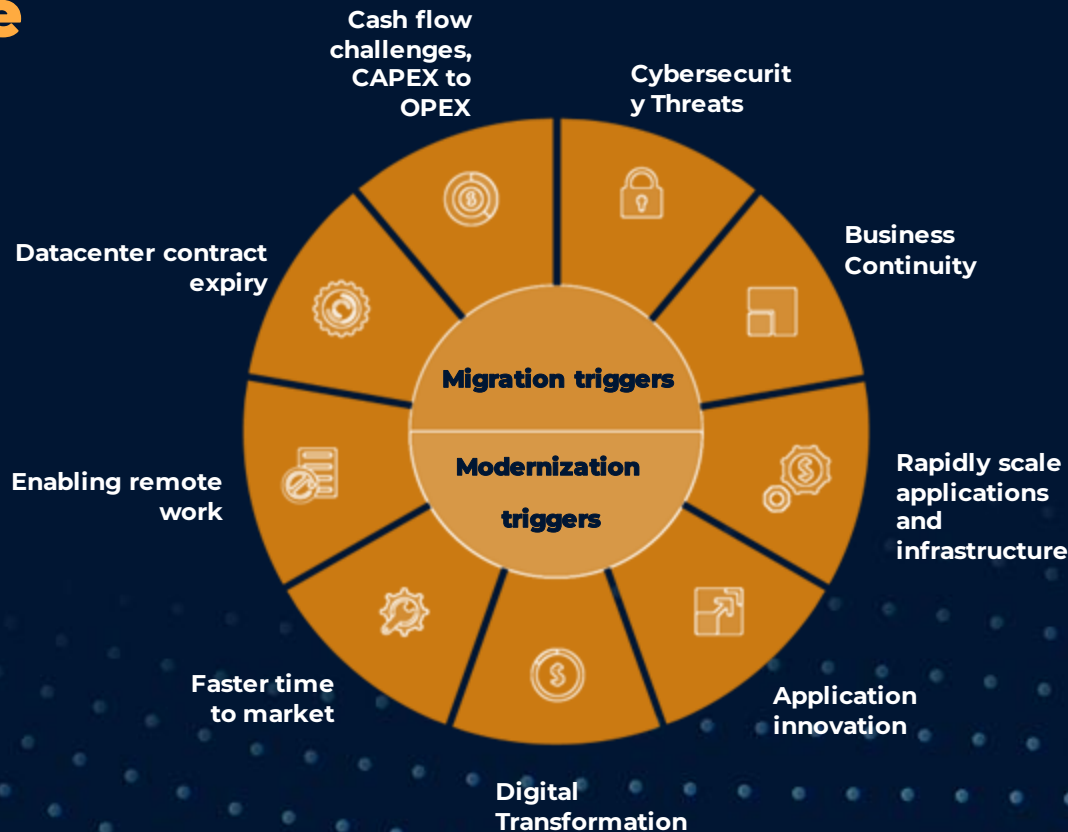by upskilling people and cultivating a community that embraces agility and innovation

Reduce technical debt
by accelerating IT and app modernization that aligns with your business objectives

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Why move now?

Cash flow challenges, CAPEX to OPEX

Cybersecurity Threats

Business Continuity

Datacenter contract expiry

Migration triggers

Modernization triggers

Rapidly scale applications and infrastructure

Enabling remote work

Application innovation

Faster time to market

Digital Transformation

Moving from CAPEX to OPEX?

Many organizations want to move to the cloud in order to move IT expenses from capital expenditures to operational expenditures.

CAPEX

+ Can take advantage of amortization and depreciation of investments over an extended period of time.

− Requires large up-front investment leading to a lengthy approval process and higher risk.

− Difficult to estimate future needs—enterprises often have to overprovision to be on the safe side.

OPEX

+ Pay-per-use allows enterprises to only pay for what they use and makes it easy to scale up or down.

+ Less investment, operating costs, and risk; speeds up budgeting process.

− Commitment-based models (locked in for a year or three years) diminish the benefits of OPEX.
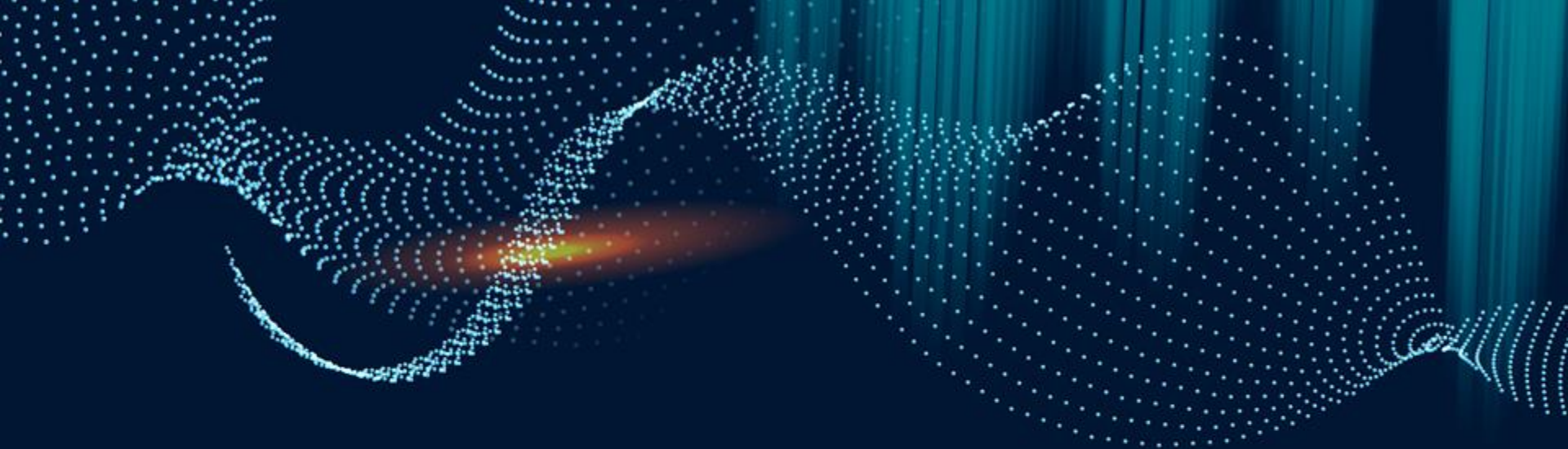
IDC predicts that by 2023, 80 percent of organizations using the cloud will establish a FinOps function to optimize cloud resources and maximize value.

+ Positives   − Negatives

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02 | Cloud Modernization Concepts

Understanding cloud services:
SaaS, and PaaS

Software as a service (SaaS)

allows users to connect to and use cloud-based apps over the internet—for example, email, calendars, and office tools like Microsoft 365.

Advantages of SaaS

- Gain access to sophisticated applications.

- Easily mobilize your workforce.

- Access app data from anywhere.

Platform as a service (PaaS)

is a complete development and deployment environment in the cloud. Its resources enable you to deliver everything from cloud-based apps to cloud-enabled enterprise applications.

Advantages of PaaS

- Cut coding time.

- Develop for multiple platforms, including mobile.

- Support geographically distributed development teams.

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Understanding Modernization

From the process to the benefits, learn how and why IT leaders prioritize moving to the cloud.

Defining modernization

On-premises
Applications, data, infrastructure

Modernization
Updating existing applications for newer computing approaches, application frameworks, and use of cloud-native technologies

Modernization decision factors

What is the immediate business need?

- **Cost optimization, flipping CAPEX to OPEX**
- **Realize cloud benefits quickly.**

How hard is it to do?

- **Complexity, level of skilling or retraining of staff needed**
- **Cost and resources needed to refactor or rebuild**

Longer-term business goals?

- **Time to market, app innovation, productivity, app dev velocity**

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Common Modernization Projects

Azure supports a variety of modernization projects including dev/test environments, backup and data recovery, smaller apps, and apps with few dependencies. Here are some examples of common projects:

Apps	Databases	Servers	VMware	SAP	VDI

Prioritizing cloud modernization

Where does your cloud adoption journey begin?

Depending if your apps are new, existing, or not custom-built, there's different options for how you proceed forward.

Benefits

New apps

Existing apps

Why to Modernize??

- Faster time to market
- Increased app innovation
- Enhanced productivity
- Greater app dev velocity

Cloud native

Serverles s

Replace

SaaS | Low code

Stay on-prem

Cloud connected

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Modernization Approaches

Different criteria will inform which approach is best for your business.

Approach	Description	Common Business Drivers	Quantitative Considerations	Qualitative Considerations
Rearchitect	Modify existing app architecture/ code to optimize for the cloud	• Application scale and agility • Easier adoption of new cloud capabilities • Mix of technology stacks	• Application asset size (CPU, memory, storage) • Dependencies (network traffic) • User traffic (page views, time on page, load time) • Development platform (languages, data platform, middle-tier services)	• Growing business investments • Operating costs • Potential feedback loops and DevOps investments
Rebuild	Rebuild applications from scratch using cloud-native technologies	• Accelerate innovation • Build apps faster • Reduce operational cost	• Application asset size (CPU, memory, storage) • Dependencies (network traffic) • User traffic (page views, time on page, load time) • Development platform (languages, data platform, middle-tier services)	• Declining end-user satisfaction • Business processes limited by functionality • Potential cost, experience, or revenue gains
Replace	Leverage an existing SaaS application that provides the necessary functionality for the hosted app	• Standardize around industry-best practices • Accelerate adoption of business process–driven approaches • Reallocate development investments into applications that create competitive differentiation or advantages	• General operating cost reductions • VM size (CPU, memory, storage) • Dependencies (network traffic) • Assets to be retired	• Cost-benefit analysis of the current architecture versus a SaaS solution • Business process maps • Data schemas • Custom or automated processes

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03 | Why Modernize to Azure?

Future-proof your business with azure

- Innovate faster with a fully managed platform
- Enterprise-grade infrastructure for less
- Move on your terms with hybrid flexibility.
- Protect your most valuable assets with trusted cloud security
- Comprehensive programs to help customers move with confidence

Manage complex IT environments seamlessly as you move

IT investments may span cloud and on-premises for the foreseeable future. Azure hybrid cloud solutions can help reuse, manage, and govern assets across hybrid environments.

Single control plane with Azure Arc

Bring Azure services to any infrastructure

Modernize datacenters with Azure Stack

Extend to the edge with Azure IoT

Navigate complex IT environments

Microsoft Azure is designed with a hybrid strategy to help you solve common challenges.

100s–1,000s of apps	Diverse infrastructure	Hybrid and multi-cloud
VMs Databases Containers Serverless	Datacenters Branch office Hostes IoT devices Edge OEM hardware	Microsoft Azure aws Google Cloud ORACLE IBM Cloud

Why choose a hybrid and multi-cloud strategy?

- Regulatory and data sovereignty
- Low latency and edge workloads
- Application and datacenter modernization
- Business continuity and resilience
- Freedom to use more than one public cloud

89%

of organizations use a hybrid or multi-cloud approach. Azure helps ease the complexity of managing and governing this type of environment.

04 | **Security, Compliance, Management, & Operational Benefits**

Security benefits

Safeguard your business assets with multilayered security tools.

Prepare for regulatory challenges with the broadest set of cloud compliance certifications from Azure compliance offerings

Secure and manage identities, connect your remote workforce, and protect your users from 99.9 percent of identity attacks using Azure Active Directory

Security is foundational for Microsoft:

$1B+ annual investment

3,500+ security experts

8T+ signals analyzed for intelligence

Compliance & management benefits

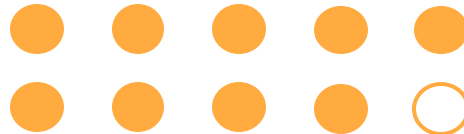**Azure helps customers with regulatory challenges with the right modernization tools.**

- Increase the efficiency and productivity of managing compliance tools, the compliance environment, and auditing.

- Reduce costs of compliance-related penalties.

- Improve agility in responding to new and ever-changing national and international regulations.

- Enhance the overall productivity of auditing and compliance teams as well as IT support.

91 compliance offerings

Operational benefits

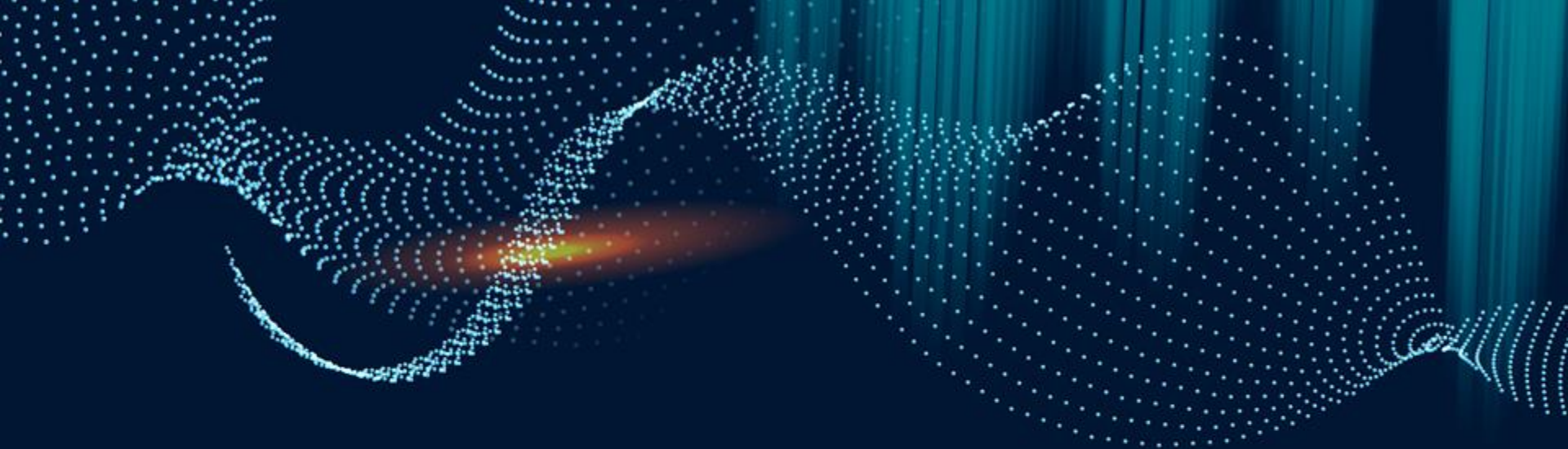**Expedite operational capacity while reducing IT overhead costs.**

- Gain efficiencies.

- Raise reliability.

90%

Reduction in datacenter support needs by Year 3*

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05 | Our Success Story

Case Study

Client: Leading EdTech Provider in the Middle East

Industry Domain: Education Technology
Technology: Azure Modernization, .Net, Mobile App Development
Location: UAE

Challenge: A prominent EdTech provider in the Middle East sought to modernize its assessment and proctoring systems. They needed a solution to efficiently conduct online and offline assessments securely while also automating result processing. The challenge was to implement an Azure-based modernization strategy to meet these needs.

Solution: Csharptek leveraged Azure Modernization to revamp the assessment and proctoring systems. The solution included an online proctoring platform that prevented digital cheating, supported various question formats, and included features like facial detection and browser locking. Additionally, an offline assessment component enabled students to take exams in traditional pen-and-paper format. Results were processed using Azure Cognitive Services for image and handwriting recognition, ensuring accuracy and efficiency.
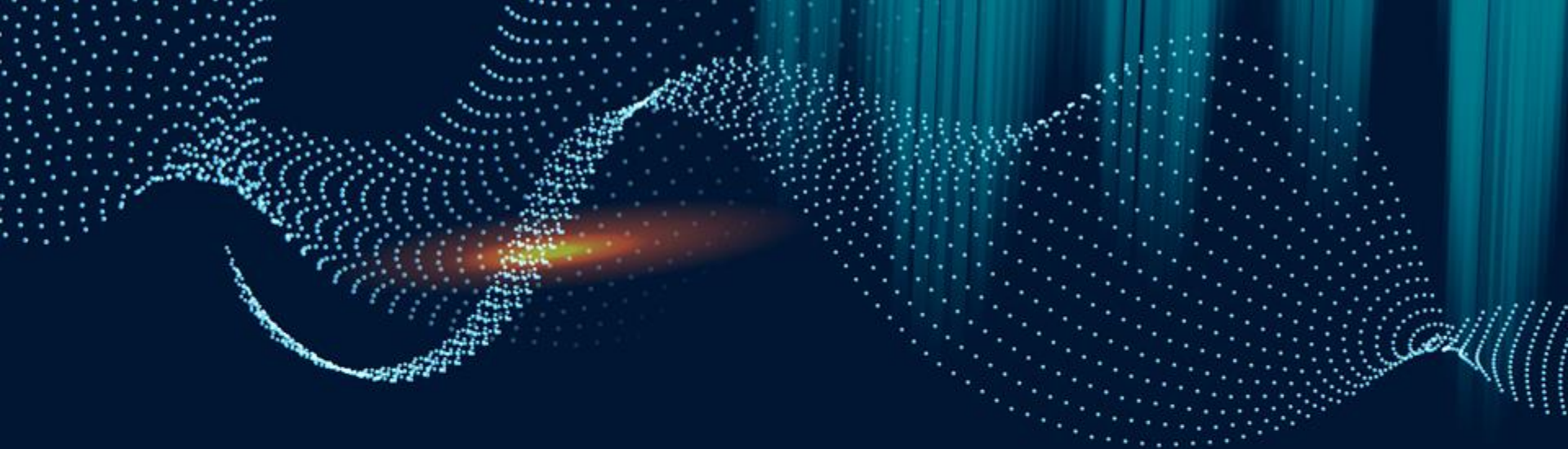
Benefits:
- **Enhanced Security:** Online proctoring system with browser locking and facial detection to prevent cheating.
- **Efficient Offline Assessments:** Pen-and-paper exams processed swiftly using Azure Cognitive Services.
- **Flexibility:** Educators created assessments with various formats, uploaded via QR codes.
- **Detailed Analytics:** In-depth insights into student performance for data-driven decisions.
- **Streamlined Processes:** Automation reduced time for assessment tasks.
- **Scalability:** Azure Modernization enabled easy scaling for growing demand.

Conclusion: The Azure Modernization approach implemented by Csharptek transformed the client's assessment and proctoring systems, making them more secure, efficient, and scalable. With enhanced security features and streamlined processes, the modernized solution is well-equipped to meet the evolving needs of the EdTech industry.

Reads Now Our latest case study..... **Click Here**

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06 | Testimonials

Testimonials

Insurance Software Development for Insurance Company

" They think hard about how to deliver what we want in the best manner possible"

Custom Software Dev for Business Consultancy Company

"They are talented, flexible in staffing and time management, and adapt easily to procedures and style of work."

Custom Software Dev for Intellectual Property Company

"The quality of the work was always very good, and errors are quickly corrected"

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06 | **Why Choose Csharptek**

Why Choose Csharptek?

Experienced Development Team: Skilled professionals with a proven track record.

Cutting-Edge Technologies: Embracing the latest tools and frameworks.

On-Time Delivery: Committed to meeting project deadlines.

Seamless Communication: Regular updates and transparent collaboration.

THANKS!

Do you have any questions?

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Thank you for considering Csharptek for your Azure Modernization needs. We are excited to partner with you and bring your ideas to life!

Contact us to discuss your Azure Modernization needs and get a free consultation. Our team is eager to turn your ideas into reality!

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