



CASE STUDY

Digitally Transforming Higher Education: How VIT and SRM Achieved 70% Faster Document Processing with eMudhra's Remote Signing Solution

About the Customer

Vellore Institute of Technology and Sri Ramaswamy Memorial Institute of Science and Technology, two of the leading private universities in India, recognized for their academic excellence and technological adoption, were facing challenges with managing their documentation workflows. The traditional processes of issuing marksheets, certificates, and handling student/teacher transfers required significant time and resources, involving physical signatures and extensive paperwork. They sought a solution that would streamline these processes while ensuring compliance with regulatory standards for digital signatures.

Business Scenario/Challenge

The universities needed to:

- **Digitally Sign Marksheets and Certificates:** The issuance of academic documents like marksheets and certificates involved manual signatures, causing delays and potential errors, especially during peak periods like graduation.
- **Facilitate Student and Teacher Transfers:** Internal documentation for transfers required multiple approvals from different departments, resulting in bottlenecks and process inefficiencies.
- **Enhance Security and Compliance:** The existing methods lacked robust security measures and often led to the risk of document tampering or unauthorized access, making compliance with government regulations challenging.
- **Enable Remote Operations:** With the shift towards online learning and remote work, there was an urgent need for a remote signing solution that could be accessed by stakeholders irrespective of their location.

eMudhra's Solution

eMudhra introduced its Remote Signing Service, a secure, cloud-based solution that enabled **Vellore Institute of Technology** and **Sri Ramaswamy Memorial Institute of Science and Technology** to digitally sign marksheets, certificates, and transfer documents, ensuring the authenticity, integrity, and legality of all issued documents.

Key components of the solution included:



Digital Signature Integration: eMudhra's Remote Signing Service was integrated into the universities' existing document management systems, allowing for seamless digital signing of marksheets and certificates at scale.



User-Friendly Interface: The platform was designed to be easily accessible for university staff, making it simple to sign and manage documents from any location.



Compliance with Legal Standards: The solution complied with regulatory requirements for digital signatures in India, ensuring that all digitally signed documents were legally binding and secure.



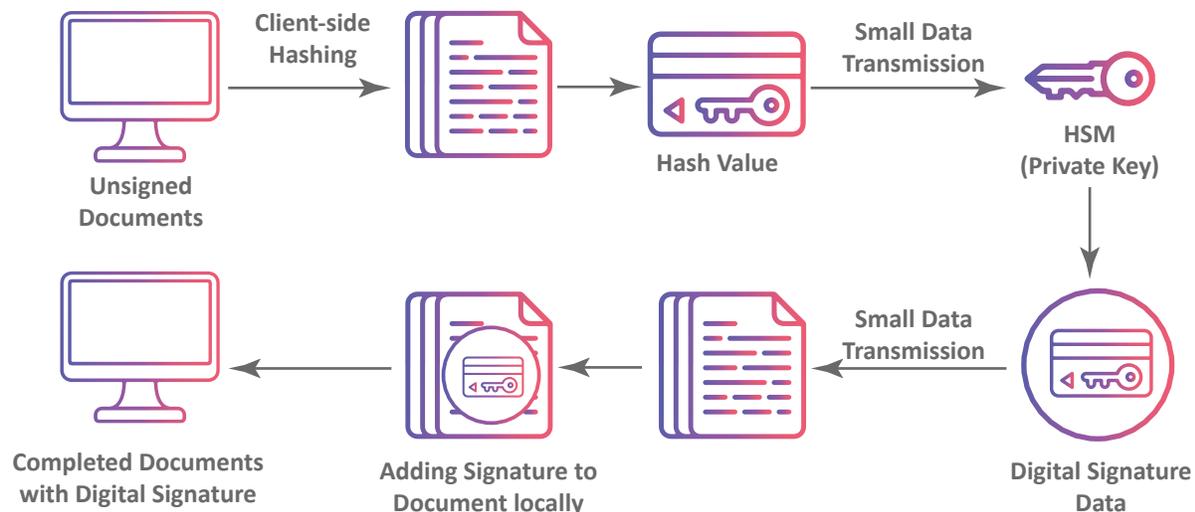
Enhanced Security: Built-in encryption and audit trails provided an added layer of security, ensuring that documents could not be tampered with once signed.



Automation and Scalability: The system automated repetitive tasks, reducing processing time and eliminating paperwork bottlenecks during peak periods such as examination results and admission cycles.

Solution Architecture

The remote signing service was deployed through a secure API-based integration with the universities' existing systems, allowing for seamless document handling. The signing process was entirely remote, reducing the need for physical signatures while ensuring the authenticity of all signed documents. Role-based access control (RBAC) ensured that only authorized personnel could initiate or sign documents, maintaining the integrity of the workflow.



Value Add to the Universities

The implementation of eMudhra's Remote Signing Service has brought about a significant transformation in Vellore Institute of Technology and Sri Ramaswamy Memorial Institute of Science and Technology's administrative processes. The benefits include:

- **Improved Efficiency:** The universities reduced document processing time by up to 70%, allowing for faster issuance of marksheets, certificates, and transfer letters.
- **Cost Savings:** By eliminating the need for paper, postage, and manual handling, the universities saw a reduction in operational costs.
- **Enhanced Security and Compliance:** The digital signatures ensured documents were tamper-proof, secure, and fully compliant with India's IT Act.
- **Scalability:** The solution was easily scalable to accommodate an increasing number of documents as the universities grew.
- **Improved User Experience:** Both students and staff benefited from faster, more reliable document handling, enhancing their overall experience with the universities.

By leveraging eMudhra's Remote Signing Service, Vellore Institute of Technology and Sri Ramaswamy Memorial Institute of Science and Technology have effectively transitioned to a digital-first approach, reducing paperwork, improving operational efficiency, and ensuring compliance with digital signature regulations. This successful deployment highlights the broader potential for digital signatures in educational institutions, where the shift to digital processes can improve both administrative workflows and user satisfaction.

About eMudhra

eMudhra is a leading provider of digital trust solutions, specializing in Public Key Infrastructure (PKI), Post Quantum Cryptography (PQC), and Fully Homomorphic Encryption (FHE) technologies. With a robust portfolio that includes digital signature solutions, identity management, and secure transaction solutions, eMudhra empowers organizations across various sectors, including defense, finance, healthcare, and government, to enhance their digital security. Committed to innovation and excellence, eMudhra continuously invests in research and development to stay ahead of technological advancements, ensuring their

solutions meet the highest standards of security and compliance. By integrating cutting-edge cryptographic technologies like PQC and FHE, eMudhra ensures that its clients are equipped to face future cyber threats with confidence. With a global presence and a strong customer base, eMudhra is dedicated to fostering a secure and digitally empowered world.