***Migration to Amazon Serverless-Architecture***

***Problem Statement:***

Business perspective is “An online platform that simplifies exam scheduling for multiple organizations, helping them assess students' technical skills and providing the data to their End customers”. Initially they are on outdated infrastructure which is OnPrem with physical machines for database and process of which the web site was been served from GoDaddy with no monitoring. Their customers were rapidly increasing and had multiple issues with serving the data globally.

***Solution statement:***

"Minfy proposes a streamlined solution: launching infrastructure on AWS using Terraform for Infrastructure as Code. We've upgraded to Amazon Route 53 for DNS, S3 for static content hosting, and CloudFront for caching. Amazon Cognito handles user authentication and registration seamlessly. To enhance security, we've implemented AWS WAF for Captcha.

Additionally, we've integrated Amazon API Gateway with AWS Lambda functions to manage requests to and from Amazon Aurora, our serverless database. Both Lambda and Aurora dynamically scale to handle multiple requests and data entries effortlessly, ensuring smooth data delivery without interruptions."

***Achievements:***  
"Moving from on-premises to AWS, our adoption of the serverless framework has revolutionized scalability, providing global access with robust monitoring and security features. Non-authenticated users are restricted from accessing content, ensuring data integrity. Moreover, our cost structure dynamically adjusts based on usage, optimizing efficiency."

***Outcomes:***  
"Our end customers are delighted with the efficiency of our infrastructure provisioning and maintenance process. They appreciate the swift execution, rigorous security measures, and thorough validations implemented at various stages. Automation plays a key role, ensuring seamless output and consistently meeting their expectations."

**Architecture**

