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ID Management System for Customer Profiling

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ID Management System for Customer Profiling

Innovature Consulting Services implements 'ID Management System for Customer Profiling' for a Japanese company specializing in information and communication processing using digital technologies.

Project Overview



The ID Management system is a user management system developed to access, control and monitor the different services within an enterprise. The client is a leading company from Japan specializing in information and communication processing using Blockchain Technology, AI, IoT etc. The project goal was to setup an ID management system, where the user related information is stored and kept securely. The users were to be given access to

the different

service solutions provided by the company using a single ID. The ID management system consisted of two parts – one for Primary ID and another for Secondary ID. The Primary ID management system was used by the Virtual Wall to create and manage primary IDs for their users – which is used with multiple businesses for login. The Secondary ID management system is used to create and manage secondary IDs for their users – which is used across the different services provided.

Business/ Technical Challenges

e-KYC Integration with Registration: e-KYC document upload was carried out by a third party, who had minimal documentation, and frequent mismatches between documentation and implementation. The role of this service provider had to be detailed thoroughly to integrate into the ID management system.

Security and Data Privacy: As part of registration and e-KYC verification, the users have to provide their personal as well as investment data; including documents like Passport, Identity Card etc. Storing these highly confidential data in the cloud securely was another challenge.



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Highly confidential data is exchanged through the ID Management System, and also with external services. The data had to be securely saved in cloud storage, with clear guidelines on cloud operations and management. All this had to be in compliance with the Japanese laws & regulations regarding data privacy and data protection. Most of the services which had to be integrated into the ID Management System were at an evolving stage. SO the system had to be visualised to be compatible with the upcoming services in the pipeline.

Technologies/Platforms Used

Application Type	Web Service
Development Languages	Java, Spring Boot
Database	MySQL
Tools / Libraries	AWS Services - EC2, RDS, S3, ALB

Implementation Approach

A detailed call-flow diagram was generated for each functionality in the ID management system; which was reviewed frequently and changes applied based on the feedback from Architecture & Lead Engineering teams. The final version was shared with customer for validation and confirmation. As the system is handling highly confidential user data, DB tables with encryption were used. An advanced encryption algorithm ensured that the data is protected in the cloud.

Business Benefits & Key Features

High Security in Cloud & Application : The AWS best practices were followed to strengthen the security – including EC2 Hardening, Security Groups, RDS in Private Subnet & private S3. Advanced Encryption Algorithm standards were applied to user's data & documents.

Better Flow & Verification: A third-party service was successfully integrated with the application's registration flow to complete the e-KYC document verification. This resulted in smooth registration flow where we could identify & eliminate the fraud/fake accounts.

About Innovature



Innovature provides IT consulting to various industry segments like retail, utilities, media & entertainment, energy etc and leverages AI, RPA and block chain technologies to deliver business growth. ISO certification reinforces its pole position globally in the field of information security, as largescale data is processed for effective decision making. Innovature has for more than a decade expertly steered its clients worldwide towards innovative products and services for their digital transformation. It has a track record of successful execution of more than 600 projects for nearly 100 organizations across the world.

For more information, please contact our consultant

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