

Objective

Develop a financial portfolio application using the Serverless Framework on AWS to enhance operational efficiency, reduce infrastructure overhead, and improve scalability.

CASE STUDY

Scope

- Develop and deploy AWS Lambda functions using Node.js through the Serverless framework.
- Create and deploy React-based frontend code on AWS S3.
- Integrate AWS Lambda functions with DynamoDB and AWS API Gateway for seamless data flow and API management.

Solution

- ✓ Implemented React code and deployed it to an AWS S3 bucket for static web hosting, ensuring fast content delivery and reduced server load.
- ✓ Developed Node.js AWS Lambda functions, deployed and managed through the Serverless framework to handle backend processes efficiently.
- ✓ Integrated Lambda functions with DynamoDB for database operations and AWS API Gateway for handling API requests, ensuring a fully managed, serverless architecture.

Value Added

- **Adaptability:** VAST developers quickly mastered the Serverless framework for efficient solutions.
- **Full-stack expertise:** Proficient in ReactJS, NodeJS, MongoDB, and microservices for scalable Lambda functions.
- **Cost-effective scalability:** Serverless architecture reduces server management costs and scales automatically.
- **Cross-cultural collaboration:** Smooth project execution with remote, cross-cultural teams.

Frameworks & Tools



DynamoDB



Amazon API
Gateway

Objective

Digitalization for practicing chartered accountants to automate accounting processes, manage and monitor team efficiency, and improve client experience through a white-labeled mobile app.

CASE STUDY

Scope

- Eliminate communication overheads between clients and team members
- Support business growth by transitioning to a digital, app-based operation
- Develop a highly expansive and scalable solution that accommodates even remote clients swiftly.

Solution

- ✓ Developed a comprehensive digital platform for chartered accountants to automate and manage accounting processes.
- ✓ Created a white-labeled mobile app to improve client engagement and service delivery.
- ✓ Provided a scalable architecture to support business expansion and remote client management.

Value Added

- Worked with clients to understand the domain and provided specific insights to improve the team's tech skills
- Guided team toward becoming self-sufficient.

Frameworks & Tools



Express

Objective

A top trade compliance expert in the US, aimed to revolutionize trade workflows by simplifying management and compliance. They envisioned a potent SaaS marketplace to help businesses effortlessly navigate customs regulations.

CASE STUDY

Scope

- Develop a SaaS multi-tenant platform utilizing a microservices-based architecture.
- Integrate the platform with multiple trade compliance solutions/services, allowing users to select and pay for services based on their specific needs and consumption.

Solution

- ✓ VAST developed a robust SaaS marketplace equipped with a multi-tenant system and microservices architecture.
- ✓ Integrated seamlessly with multiple trade compliance services, offering a comprehensive suite of tailored offerings.
- ✓ Implemented technologies such as Java, SpringBoot, React, and Docker to ensure scalability, flexibility, and optimal performance.
- ✓ Introduced a pay-as-you-go model that empowered users to select and pay for services based on their consumption.

Value Added

- Implemented a SaaS marketplace, achieving major cost savings and efficiencies for our client and their customers.
- Boosted client revenue by expanding service offerings and customer reach.
- Enhanced compliance management, increasing user satisfaction, and optimizing processes through client feedback

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