

# Microservices-based API Infrastructure for a UK-based Fintech Company

UK based fintech company partnered with us to build a full-service portal for automobile consumers to address all the needs a typical consumer may have. For example, multi-brand car showrooms can engage a customer from the time of walk-in till sale.



An intensively manual process of car buying, loan application, credit rating check, grant of loans, and deal closure was automated through the application

## Challenges

To design and build a microservices based API infrastructure-based product to be offered as a service on a cloud.

## Solution

### Product Development:

- Stanra designed the architecture and solution for the Server on microservice and **AWS Lambda Architecture**
- Completed the full Stack development including web front end, admin module, server, database and DevOps
- Further Development of Analytics Module for trend analysis, customer behavior and preferences etc.
- Created, designed and developed the **Admin Module** using **React JS**
- Improved the **REST API** for **integration** between **Server** and **front end**
- Set up and delivered **DevOps: Infrastructure setup** on **AWS** with Continuous build and integration and testing

**Technology used:** AWS, Microservices, AWS Lambda, DynamoDB, MySQL, AngularJS, Java 8, Spring Boot

## Benefits

- Automated workflows for the entire process chain of car selection to purchase
- Reducing risk of loan default through credit check

## Innovation

Created an end-to-end platform that enhanced the car selection, accessories selection, warranty support, access to a select financing companies, credit check with a retail credit rating agency, link to bank loan application, and the actual purchase.

## Result Highlights

Built an End-to-End Platform for Entire Process

Automated Workflows

Credit Check to Reduce Risk of Loan Default