Application Modernization Project
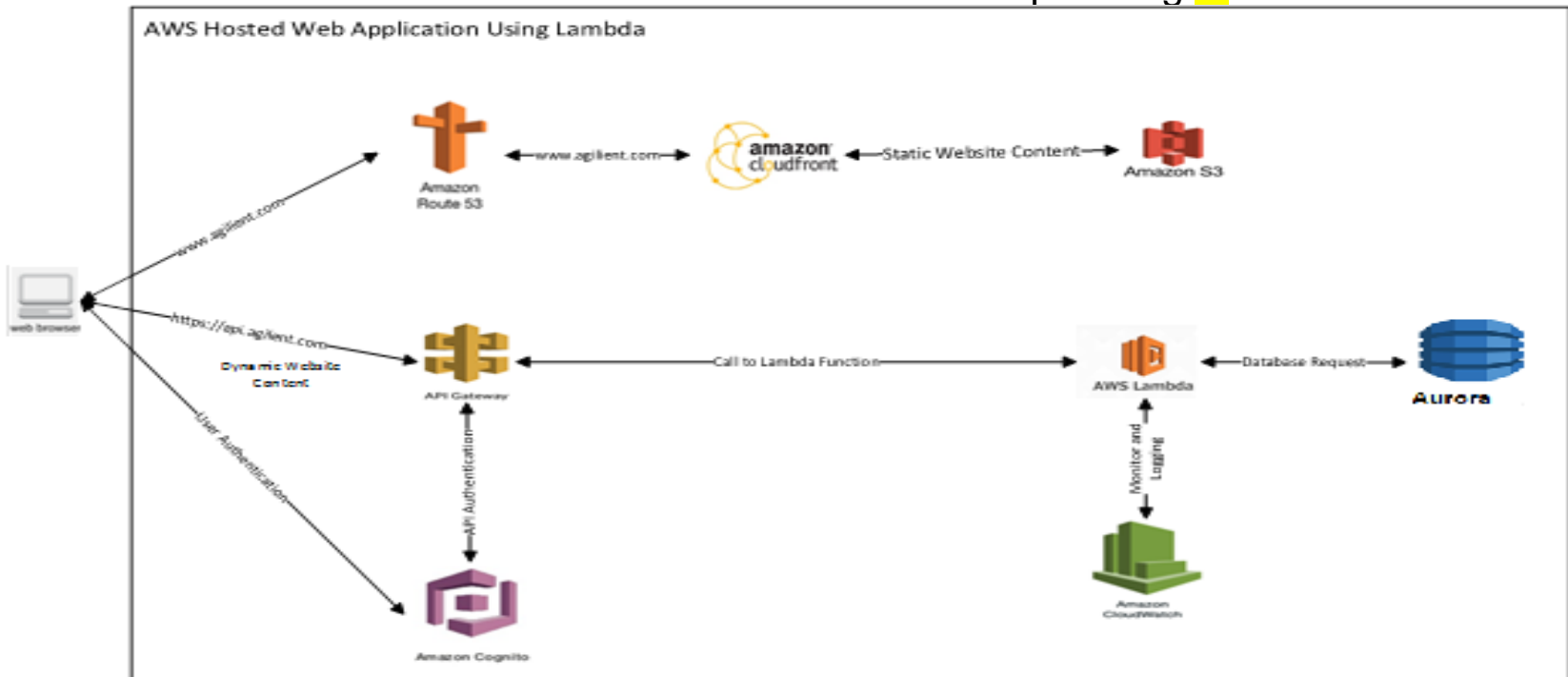
Online Channel – Japan Dealer Portal

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Current Application

➢ The current Japan Dealer Portal is a legacy portal inherited

➢ The current portal is managed by a hosting partner

➢ The current portal was developed in PHP and MySQL and hosted on an on-prem server by a 3rd Party

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New architecture on AWS

➢ The new microsite is being developed in AWS Serverless architecture.

  ❖ Data-store in AWS RDS Aurora.
  ❖ All the server side code developed using AWS Lambda
    ✓ Business functionalities like search items, import items
  ❖ UI is developed using Angular JS
  ❖ User management using AWS Cognito User Pool and Cognito Identity Pool.
  ❖ Extraction of item information from SAP and uploading to AWS S3 bucket

AWS Hosted Web Application Using Lambda

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Benefits of Solution using Serverless Architecture

- ➢ Functionalities can be developed in form of loosely coupled Microservices.
- ➢ Ease of deployment and packaging. This eliminates the need of sys admins.
- ➢ Enhanced scalability from both the development and infrastructure stand point
- ➢ Lower cost: Available frameworks for user management, RDS, image processing etc.
- ➢ Focus on User Experience: Developers can leverage the available cloud frameworks and there by focus more on features and user experience.
- ➢ Multiple language support for writing lambda's - Node.js, Java, C#, Python

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HCL Migration Solution to Migrate Apps to AWS

➤ Assessment of legacy applications

  ❖ Understand the challenges with current legacy application. Identify the problem to solve.

  ❖ Approach for an easier way to replace the bunch of legacy system with a new team\application

➤ POC and Optimizing the solution

  ❖ Leverage the AWS frameworks for user management (Cognito), API Gateways, RDS etc to replace the existing systems

  ❖ Logically break the functionalities in form of microservices and use AWS Lambda to develop the same.

  ❖ Optimize the solution to take advantages of cloud

➤ Automate CI and CD

➤ Automate the testing

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