

Design Document

Introduction

This is Software Design Document for ABC Store Product Catalog Management. This document cover backend artifacts of product catalog management.

System Overview

Product Catalog will be use by public facing website and native mobile applications. Product Catalog will be available to front end systems via secure API end points to add , update and delete (Soft or Hard ??) Catalog , Product and Product attributes.

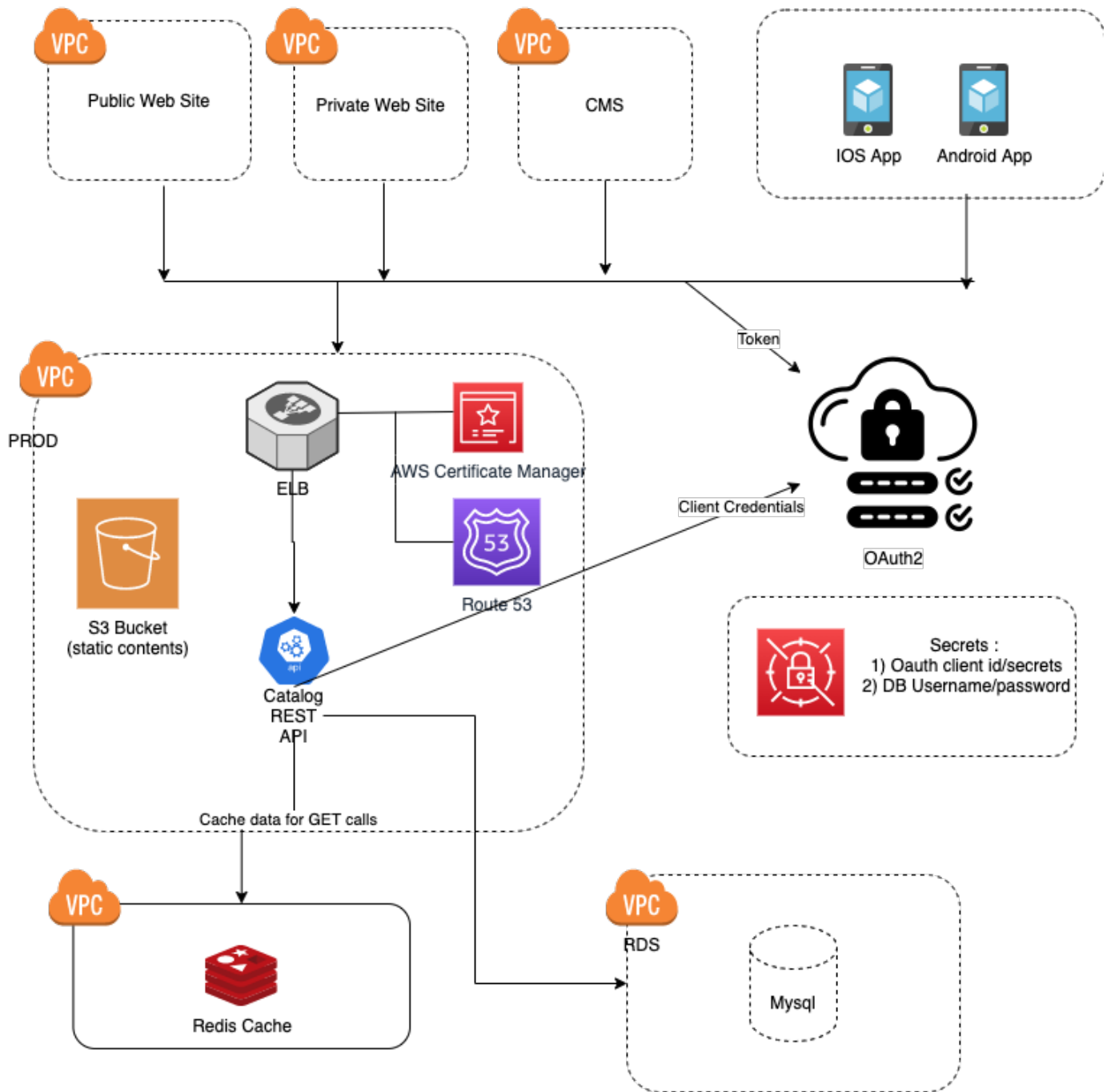
Consumers

- Public Website(s)
- Native Mobile Aps (Android , IOS)
- Internal website (or portal)

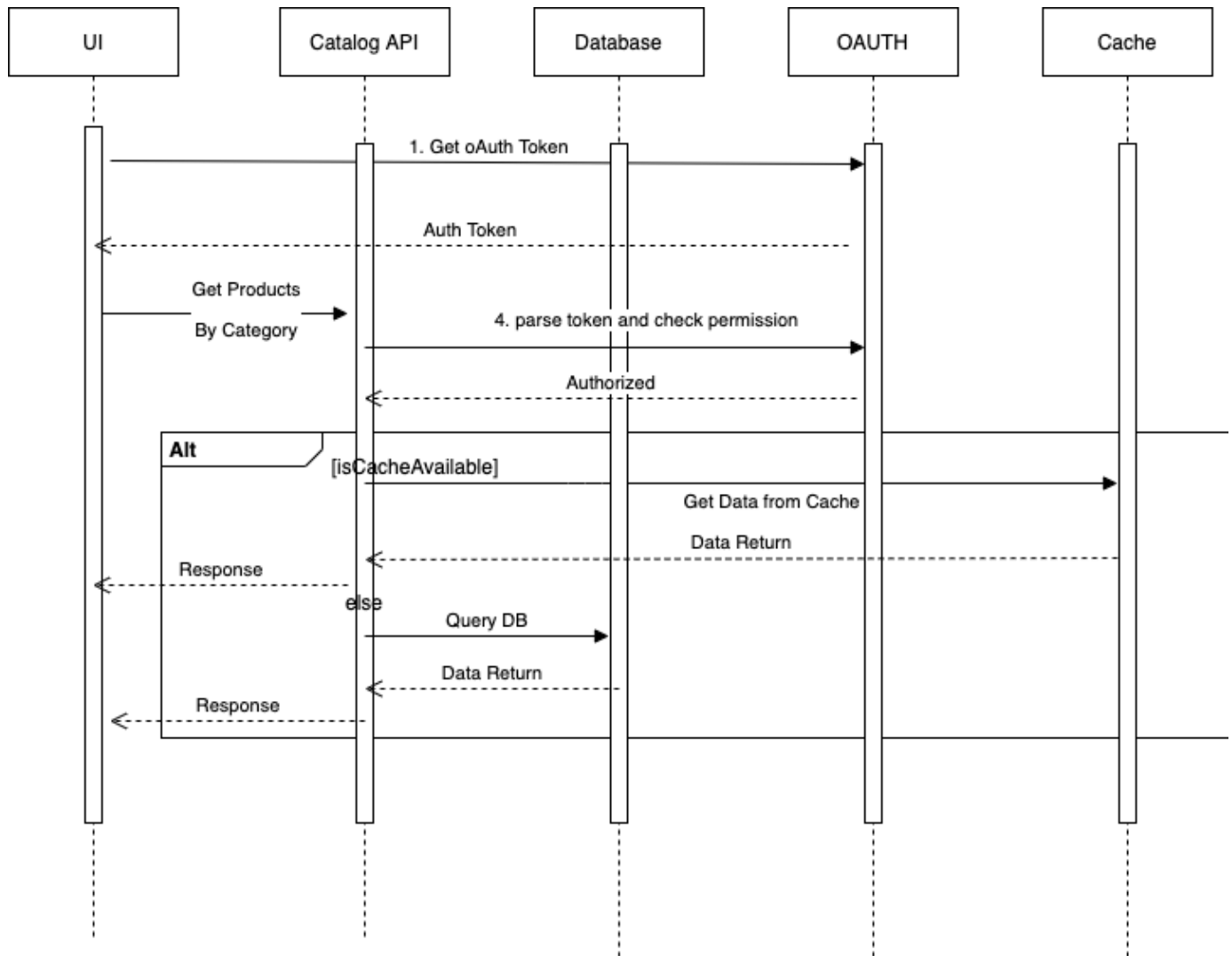
Usage

- Read : Public websites and Native Mobile Apps
- Write : Internal website to manage Product Catalog
- Delete : Internal website to manage Product Catalog

System Architecture



Sequence Diagram



API

Category

Function	HTTP Method	End Point	Description
Add Category	POST	/category	Add new category in Database
Update Category	PUT	/category/{id}	Update an existing category in DB
Delete Category	DELETE	/category/{id}	Soft Delete existing category from DB
View Category	GET	/category/{id}	View Category by Category Id
List Categories	GET	/category	List all categories from Database Options : <ul style="list-style-type: none"> • Full • Root
List Products By Category Name	GET	/category/{categoryName}/products	List all products by category Name

Product

Function	HTTP Method	End Point	Description
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Add Product	POST	/product	Add new Product in Database
Update Product	PUT	/product/{id}	Update an existing Product in DB
Delete Product	DELETE	/product/{id}	Soft Delete existing Product from DB
View Product	GET	/product/{id}	View Product by Product Id
List Products	GET	/products	List all products from Database
List Products By Category Name	GET	/product/{categoryName}/products	List all products by category Name
List Product Skus By Product Id	GET	/product/{id}/product-skus	List all product skus by product id from DB.

ProductSku

Function	HTTP Method	End Point	Description
Add Product Sku	POST	/product-sku	Add new ProductSku in Database
Update Product Sku	PUT	/product-sku/{id}	Update an existing Product in DB
Delete Product Sku	DELETE	/product-sku/{id}	Soft Delete existing Product from DB
View Product Sku	GET	/product-sku/{id}	View Product by Product Id

Database Design

