



# AirCode Serverless E-Commerce REST API

Solo Project

NAME : IBRAHIM RIKO

# PROJECT DESCRIPTION

E-Commerce REST API is a comprehensive backend project developed for an E-commerce platform, focusing on serverless architecture and utilizing Node.js as the primary technology stack. The project aims to provide robust authentication and authorization mechanisms, seamless integration with MongoDB for data storage, and efficient handling of payment transactions using the Stripe API.



# Learning Objectives:

- a. Gain hands-on experience in building a serverless architecture using Node.js on Aircode.
- b. Implement secure authentication and authorization using JSON Web Tokens (JWT).
- c. Understand the integration of MongoDB for efficient data storage and retrieval.
- d. Explore the deployment of functions as REST endpoints in a serverless environment.
- e. Learn to handle payment transactions through the Stripe API.



# TECHNOLOGIES USED:


- Node.js: For building the serverless backend.
- MongoDB: As the database for storing and retrieving E-commerce data.
- JWT (JSON Web Tokens): For secure authentication and authorization.
- Stripe API: To handle secure and reliable payment transactions.
- AirCode Cloud Functions: Basic unit of deployment



# THIRD-PARTY SERVICE USED:

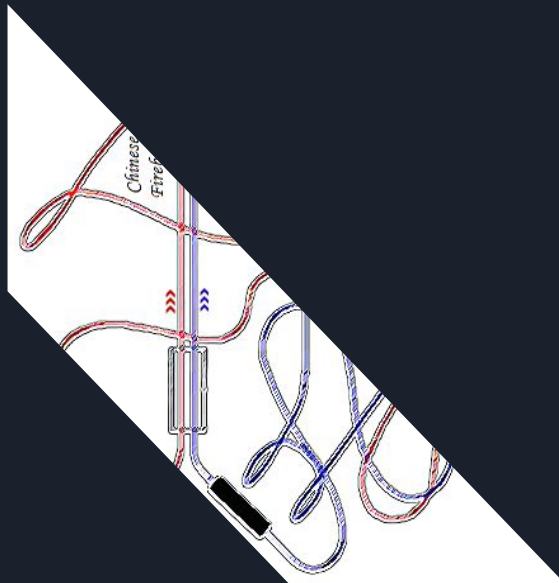
Stripe API:

Integrated for secure and efficient handling  
of payment transactions.



# CHALLENGES ENCOUNTER:

- a. Implementing secure authentication and authorization flow.
- b. Ensuring seamless integration with MongoDB for optimal data handling.
- c. Managing and deploying functions as REST endpoints in a serverless environment.
- AirCode Cloud Functions:Leveraging AirCode cloud functions and addressing challenges related to automatic scaling.
- d. Addressing potential issues related to payment transactions via the Stripe API.



# Project Cycle diagram

## Prototype

Designing the MVP project

## Share

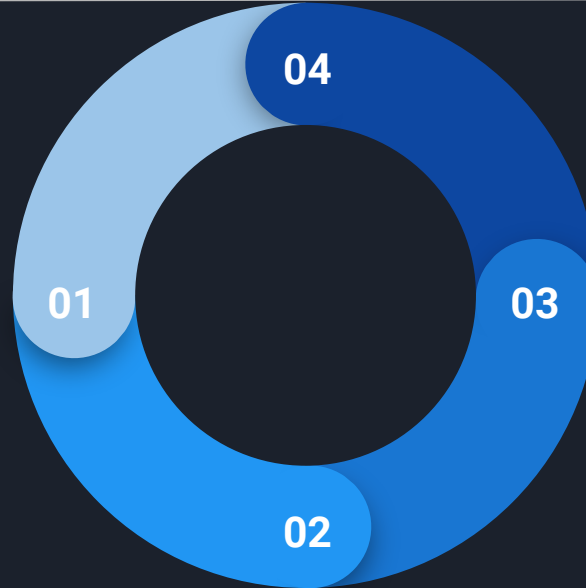
Share project with peers for review

## Refine

Implement the core features

## Get feedback

Every feedback matters





# Introducing: ECOMMERCE API

Showcasing how tools work across the web.







# Thank you!

E-Commerce REST API project is a solo endeavor to create a robust, serverless backend for an E-commerce platform, utilizing cutting-edge technologies like Node.js, MongoDB, JWT, and integrating with the Stripe API for seamless payment processing. The project not only focuses on technical implementation but also provides valuable insights into addressing common challenges encountered in real-world scenarios.

