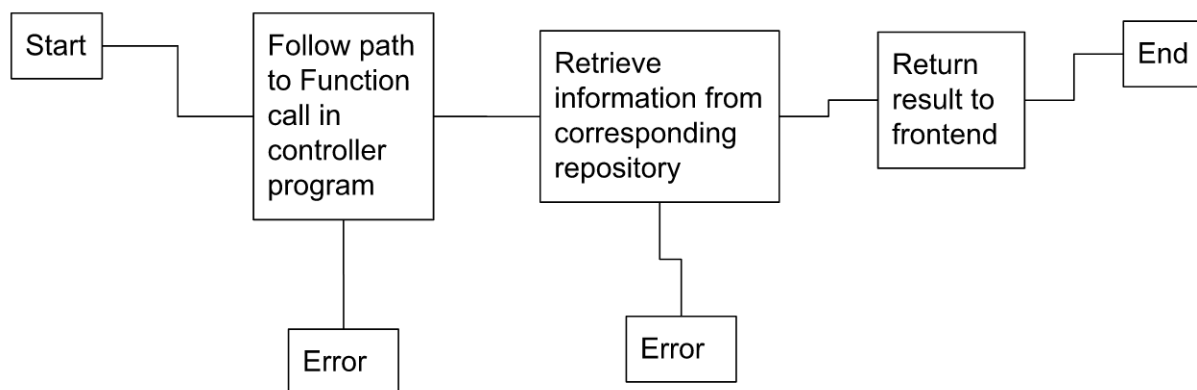# Capstone

GitHub Repo

Functional Overview

- This application performs backend functions of an ecommerce website, connecting the SQL database to the microservice components of the website frontend.

Implementation

- Recieves a JSON object in the format of the object to be updated in the database, then carries out the update.
    - user/update/{userId} - Updates registraion details for user of ID userId
    - user/registration - Creates a new user in the database
    - user/login - Makes call to Okta for authentication
    - users/getIdToken/{token} - Returns User ID associated with the given Okta token
    - user/get/{userEmail} - Returns user associated with the given email address
    - user/get/{userId} - Returns user associated with given userId
    - user/all - Returns a list of all registered users
    - user/delete/{userId} - Deletes user associated with the given userId
    - role/get/{id} - Returns the role assigned to user of ID id
    - product/update/{id} - Updates details for product of given id
    - product/add - Adds inputted product to the database
    - product/get/{id} - Returns product associated with given id
    - product/get/byName - Returns product with specified name
    - product/all - Returns List of all registered products
    - product/delete/{id} - Deletes product associated with given id
    - invoice/update/{id} - Updates invoice associated with id
    - invoice/create/{userId} - Creates invoice and associates it with user of userId

- invoice/checkout/{id} - Updates status of invoice with given id and charges its user
- invoice/get/{id} - Returns invoice associated with id
- invoice/all - Lists all invoices in the database
- invoice/delete/{id} - Deletes invoice associated with id
- category/update - Updates a certain category
- category/add - Adds a category to the database
- category/get/{id} - Returns a category with the given id
- Category/all - Lists all registered categories
- address/update/{addressId} - Updates address of given Id
- address/create - Registers new address
- address/get/{addressId} - Returns address corresponding to given Id
- address/all - Lists all registered addresses
- address/delete/{addressId} - Deletes address with associated Id

```
[Start] → [Follow path to Function call in controller program] → [Retrieve information from corresponding repository] → [Return result to frontend] → [End]
                        ↓                                                      ↓
                     [Error]                                                [Error]
```

Impact if service is down
- Frontend applications will not be able to carry out CRUD operations for products or users in the database.

Type
- Component