**Hackathon Project for freshers**

**Application contains four Modules:**

Auth

Online

Supplier

Catalog

1. All the services would be calling Auth module for Login, and to get the permissions

Roles:

Customer

Supplier

Catalog Admin

OMS Admin

Database: MySQL

2. Online is a front facing application for Customers. User of this service can shop for products. Each user has his own shopping cart (session functionality).add items into cart, view list of items and checkout. Checkout is transactional.

Price of the product will be the minimum price which multiple suppliers are selling.

Database: MySQL

3. Catalog is to maintain products and price information. Other services would be calling catalog service to get all the products and its information. Supplier service will be updating price info/inventory on catalog. This service will have two screen - Product Creation/Updation, Listing

Database: Mongo DB

4. Since one product can be served by multiple suppliers, so we have a service "Supplier". This will have a front facing UI. Where User having Supplier role can see all the products and map the price/inventory. This service will have two screens

a. Orders assigned to me.

b. Which products supplier is selling.

Database: MySQL

5. OMS is an order management system.

The users with this role can view the list of orders, details of an orderMain.

Database: MySQL

Below is the list of microservices:

1. Auth (SpringBoot Microservice)

Signup/Login

Roles and permissions

Api's

Login API

Registration

Get permissions (Input user id)

2. Online (SpringBoot Microservice)

Products Listing

Cart functionality

Checkout

3. Catalog (SpringBoot Microservice)

Product Creation

Product Listing

Api's for other services

Add pricing

Update Inventory/Stock (per supplier)

4. Supplier (SpringBoot Microservice)

View orders assigned to logged in supplier

Catalog listing

Price/Inventory stock Mapping

5. OMS (Order management System) (SpringBoot Microservice)

view list of orders,

details of an orderMain and their profile.