## Objective

Development of an E-Commerce Solution for Online Shopping

## Abstract of the project

This project is aimed at developing an E-Commerce Solution for Online Shopping. This is a web based application that can be accessed over the web. This system can be used for adding new products, searching and managing the existing products and place an order for a product. This is an integrated system that contains three user components, Admin component, Sales Manager component and Customer component.

## Functional components of the project

Following is a list of functionalities of the system. Wherever, the description of functionality is not adequate, you can make appropriate assumptions and proceed.

There are three categories of people who would access the system viz. Customer, Sales Manager & Admin. Each one of them would have some exclusive privileges (for e.g. customer can search for existing products and make an order, but the admin has the right to add new products and modify existing products)

1. Customer should be able to
   * Search and view existing product details
   * Place an order for an interested product
   * Register (If not registered) / Login to the system for placing an order
   * Cancel an order
   * View order details
2. Sales Manager should be able to
   * Login
   * Generate various reports like
     1. Orders placed by all customers
     2. Orders placed during a specific period of time
     3. Orders that are pending
3. The Admin should be able to
   * Login to the system using his/her credentials
   * Perform Product Management (add new product, modify/delete existing product)

**Suggested Stack:**

1. **JAVA Track:**

* Java 8
* Angular 6+
* Maven
* Spring Boot 2.x
* SpringREST
* Spring Data JPA
* Postman
* Oracle/Postgres
* JUnit 5/Mockito
* Sonarqube
* JACOCO

1. **.NET Track**

* C#
* Asp.net
* EntityFramework
* Angular 6+
* MSBuild, MSTest/NUnit,
* SQL/MySQL/Oracle/Postgres