Project Title :

E-commerce Application On IBM Cloud Foundry

Phase 3 :

Development part 1

Abstract :

\*\* This project aims to create an artisanal E-Commerce platform hosted on IBM Cloud Foundry

\*\* The platform will support the sale of handmade and unique products.

\*\*This initiative leverages the power of cloud computing to enable artisans and small businesses to reach a global customer base.

Objectives :

1. \*Platform Development\*:

\*\*Develop a user-friendly **ecommerce** platform that allows artisans to showcase their products and customers to browse, select, and purchase items.

2. \*IBM Cloud Foundry Integration\*:

\*\*Host the platform on IBM Cloud foundry, leveraging its scalability and reliability.

3.\*User Authentication\*:

\*\*Implement a secure user authentication system to protect user data and transactions.

4.\*Product Database\*:

\*\*Create a database structure to store detailed product information,Including product name,description, price, and images.

5.\*Search and Navigation\*:

\*\*Implement search and navigation features to help customers easily find and explore products.

6.\*Payment Processing\*:

\*\*Integrate secure payment Processing to facilitate online transactions.

7.\*Vendor Dashboard\*:

\*\*Provide artisans with a dashboard to manage product listings,Inventory, and order fulfillment.

Development of E-Commerce Application:

1.\*First, make an IBM Cloud account and have the IBM Cloud CLI installed. Then, target the cloud Foundry service and create an app.

2.\*Create a Basic Platform Layout:\*

\*\*For the platform layout, can use HTML, CSS, and JavaScript to create a simple web page.

3.\*Create a Database to Store Product Information:\*

\*\*Can use a database service like IBM Cloudant to store product Information.

4.\*Design the Database Schema:\*

\*\*Define the structure of database to store product information.

5.\*Develop Backend API:\*

\*\*To need a server-side application to interact with the database and Serve product information to an ecommerce platform. Can use a web framework like Node.js with Express for this. Create API Endpoints to perform CRUD Operations on the product data.

6.\*Connect Frontend and Backend:\*

\*\*Use JavaScript and AJAX or a Frontend framework (e.g., React) to fetch and display product data from the backend API.

7.\*Deploy and Scale:\*

\*\*Finally, deploy the web application to IBM Cloud Foundry.

Summary :

\*\*\*This project seeks to build an artisanal eCommerce platform on IBM Cloud Foundry. It will support artisans in selling their unique products to a global audience. The platform will include a user-friendly interface, secure authentication, a comprehensive product database, efficient search functionality, and secure payment processing. Artisans will have access to a vendor dashboard to manage their listings and orders.This project combines cloud technology with eCommerce to empower artisans and small businesses in the digital marketplace.