

R. Aruneshwar
2021105302
CEG(ECE)
College code:0001

E-commerce Application on IBM Cloud Foundry

Problem Definition: The project is to build an artisanal e-commerce platform using IBM Cloud Foundry. The goal is to connect skilled artisans with a global audience, showcasing their handmade products and providing features like secure shopping carts, payment gateways, and an intuitive checkout process. This involves designing the e-commerce platform, implementing necessary features, and ensuring a seamless user experience.

Problem Solution:

Artisanal (made in a traditional way by someone who is skilled with their hands) can be connected with a common platform with the global audience, by showcasing products they made like Jewellery, pots, home decors etc.,

We can use IBM cloud foundry services such as App service, Database Service, Cache services and payment Gateway Service. We can also use IBM cloud Foundry's CI/CD pipeline, monitoring and logging services and security services.

1.Platform Design:

We Use IBM Cloud's web development services and frameworks like Node.js, Express.js, or Python Flask to create an attractive and responsive UI.

2.Product showcase:

We can utilize IBM Cloud Databases for storing product information, including images, descriptions, prices, and categories. We can choose between SQL or NoSQL databases based on our needs.

3.User Authentication:

We can use Single Sign-On (SSO) this Enables SSO using IBM Cloud SSO service for a seamless login experience.

4.Shopping Cart and Checkout:

We can use IBM Cloud Secure Gateway this ensure secure communication between your platform and payment gateways using IBM Cloud Secure Gateway.

5.Payment Integration:

Integrate with payment gateways like IBM Pay, UPI, or PayPal using their respective APIs.

Development and Deployment:

Use IBM DevOps services to automate the development pipeline, including code deployment and testing.

Continuously monitor platform performance using IBM Cloud Monitoring and Application Performance Management tools.

Testing and Launch

Thoroughly test the platform, including functionality, security, and user experience.

Conduct a beta launch to gather user feedback and make necessary improvements.

Plan and execute a full-scale launch, considering marketing and promotion strategies to attract artisans and customers.

Ongoing Maintenance

Establish a support system to handle customer inquiries and technical issues.

Monitor platform analytics to gain insights into user behaviour and sales performance.