

## Phase 1: Problem Definition and Design Thinking

The scope of an ecommerce application on Cloud Foundry project can vary depending on the specific needs of the business and its target users. And, 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 Definition

- An ecommerce application on Cloud Foundry is a web-based application that allows users to buy and sell products or services online.
- It is hosted on Cloud Foundry, a platform-as-a-service (PaaS) that provides developers with a cloud-native environment for building, deploying, and managing applications.
- The challenge of developing an ecommerce application on Cloud Foundry is to create an application that is scalable, reliable, secure, easy to use, and manageable.

### Design Thinking

- **Platform design:** This includes designing the overall architecture of the application, as well as the individual components. The platform design should be scalable and reliable, and it should be able to handle a large number of concurrent users.
- **Product showcase:** This includes designing and implementing the user interface for the application. The product showcase should be easy to use and navigate, and it should allow users to easily find the products they are looking for.
- **User authentication:** This includes designing and implementing a system for user authentication and authorization. The user authentication system should be secure and easy to use.
- **Shopping cart and checkout:** This includes designing and implementing a shopping cart system and a checkout process. The shopping cart system should allow users to add and remove products from their cart, and the checkout process should be simple and straightforward.
- **Payment integrations:** This includes integrating the application with payment processors. This will allow users to purchase products using a variety of payment methods.