

Craftsbite

Introduction :

Craftsbite, a web application platform designed to connect homemade businesses and entrepreneurs, such as those offering foods and crafts, with local customers. It provides a dedicated space for lovers of homemade products and aspiring entrepreneurs. The platform addresses the growing interest in homemade goods and the limited market reach of home-based businesses, which often rely on their own platforms or social media. Unlike current online delivery services that primarily serve restaurants, Craftsbite consolidates local handmade food and craft businesses, benefiting both consumers and local entrepreneurs. Craftsbite aims to revolutionize the way local handmade food businesses connect with customers, providing a dedicated platform for homemade food enthusiasts. By leveraging modern web technologies and focusing on user-friendly features, Craftsbite will support the growth and sustainability of local businesses while offering customers a convenient way to explore and enjoy homemade foods and crafts.

Scope :

The scope of our project includes the development of a comprehensive platform with user-friendly features for both customers and homemade foods and other product businesses. Key functionalities encompass business listings, user accounts, ordering and delivery processes, reviews and ratings, promotions, and AI-driven product suggestions and chatbots.

Users and their role:

Customers :

- Browse and search for local handmade businesses.
- Create and manage user accounts.
- Place orders and manage delivery details.
- Leave reviews and ratings for businesses.

Local Shops/Businesses :

- Create and manage business profiles.
- List food menus and goods list with prices and delivery details.
- Receive and process orders.
- Respond to customer reviews and ratings.
- Offer promotions and discounts.

Administrators :

- Oversee platform operations.
- Manage user and business accounts.
- Monitor and moderate reviews and ratings.
- Ensure the overall smooth functioning of the platform.

Use cases of the system :

1. **User Registration and Login:**
 - Users can register using email or social media accounts and log in to access their profiles.
2. **Browsing and Searching for Businesses:**
 - Users can search for local handmade food businesses by location, food type, or specific keywords.
3. **Viewing Business Profiles:**
 - Users can view detailed profiles of businesses, including menus, prices, delivery options, reviews, and ratings.
4. **Placing Orders:**
 - Users can select items from a business menu, add them to the cart, and place orders with specified delivery details.
5. **Leaving Reviews and Ratings:**
 - After receiving an order, users can leave reviews and ratings for the business.
6. **Managing Promotions and Discounts:**
 - Administrators can create and manage promotions and discounts in collaboration with businesses.
7. **AI-Driven Suggestions:**
 - An AI feature that recommends product options and shops to users based on their location, interests, and previous orders.
8. **AI Chatbot:**
 - An AI-powered chatbot that interacts with users, asking questions about food preferences, location, price range, and more to help them find suitable options.

Technology :

- Frontend: Next.js, Tailwind CSS
- Backend: Java Spring Boot, CDI, Spring security
- AI models: Dialogflow, Hybrid Model
- Build Tools: Gradle
- Web Server: Apache Tomcat
- Database: MongoDB
- Version Control: Git