

WEB TECHNOLOGY FINAL PROJECT

Topic: Create a web Application on Spring MVC.

Project: AfriFood

As a Web Application, I decided to create an online web application where a customer can purchase African products, especially in the Food area. That is why I called my application "AfriFood", and "Afri" which is short of pronouncing "Africa" and "Food". My App is a French-based app meaning it helps people from native French-speaking countries to purchase African Meals, Vegetables, drinks, fruits, and snacks. Through this web, people can discover the beauty of enjoying the different specialties of African Food. This App is here to promote African delicacy.

1. Requirements:

As we are dealing with I choose to divide it into two; there will be for the admin and the Customer.

Admin's side:

- The app should have an interface where the admin can register himself and login
- Once in the administrator The admin should be able to manage everything:
 - The admin should be able to add, delete, and update a product.
 - The admin should be able to create a category of the product.
 - The admin should be able to tell which products has to appear on the customer side view
 - The admin should be able to manage the order made by the customer, either by accepting the order or by canceling it.

Customer's Side:

- The side should provide an interface for each customer to create an account and log in. The authentication should apply so that the system does not all the customers as the same person.
- The Customer must be able to view the product added by the admin
- The customer should be to search for a product he/she wishes to purchase.
- There is A cart that should add the products one wants to select and purchase.
- The customer should be able to choose, delete, and update the product and the number of products he wants to purchase
- The customer should check
- The customer should choose the mode of payment if he wants
- The Customer to make the payment.

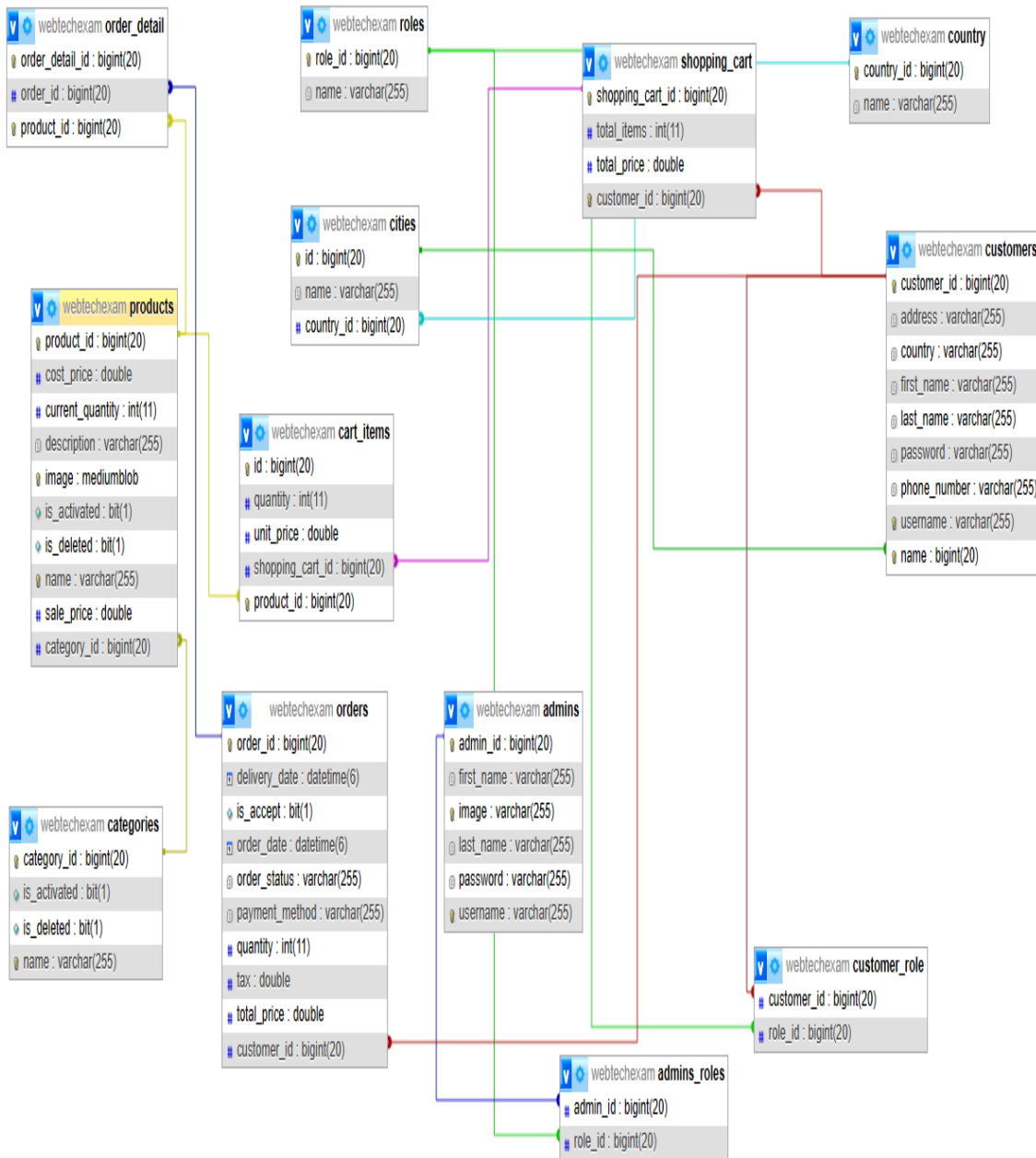
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2. Technologies used(Technical Documentation)

- Front End
 - HTML
 - CSS
 - Javascript
 - Bootstrap
- Back End
 - Java(Spring validation, Spring Security, Spring JPA, Spring MVC's exception-handling)
 - Thymeleaf
- Database
 - Mysql

3. DATABASE DESIGN

AfriFood Schema *



4. Explanation of the App and The main Features of the App

As said earlier, I developed an online application that will allow a customer to purchase some products, especially in the area of food. That website presents African products to the ones who visit it. There will be an administrator part and a customer part.

On my app, the administrator, after creating an account and login will manage the product, categories, and orders which means that on that part the main features is to create categories, create some product, view the different orders made by the customer, and accept or reject them. In this, I have also included some validation features such as the number of characters that each field must have and also some constraints regarding the password. The administrator can also look for a product deletion or update. One of the main features is also to allow a customer to view the product or not by the functionality enabled ("Autoriser" in French). The security was also configured here.

On the Customer, the app will allow the customer the possibility to view the products, choose which product he /she wants to purchase, add it to the cart, checkout, and view the total amount of the product he to purchase. There is also the possibility to have some discount. Also, my app acknowledges the authentication features, meaning when for instance customers create an account it will not consider them as the same persons.